

# Supplemental Asbestos and Lead Survey

**Contra Costa College  
2600 Mission Bell Drive  
Applied Arts Building  
HVAC Renovation Project  
San Pablo, California**

June 24, 2020

Terracon Project No. R1197614



**Prepared for:**

Contra Costa Community College District  
500 Court Street  
Martinez, California

**Prepared by:**

Terracon Consultants, Inc.  
Emeryville, California

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June 24, 2020

Contra Costa Community College District  
500 Court Street  
San Pablo, California 95811

Attn: Gaile Suarez  
E: [gaile\\_s@csipm.com](mailto:gaile_s@csipm.com)

RE: Supplemental Asbestos and Lead Survey  
Contra Costa College - Applied Arts Building - HVAC Renovation Project  
2600 Mission Bell Drive  
San Pablo, California  
Terracon Project No: R1197614

Dear Ms. Suarez:

Terracon Consultants, Inc. (Terracon) is pleased to submit the attached report for the referenced site to the Contra Costa Community College District. The purpose of this report is to present the results of the limited supplemental survey for suspect asbestos and lead containing materials that will be impacted by the planned C-1168 AA Building HVAC Renovation Project. The survey was conducted on May 5 and June 15, 2020 in general accordance with Terracon's proposal R1197614, dated March 27, 2020. We understand that this survey was requested due to planned replacement of mechanical piping, roof top air handlers, controls and above ceiling components. The scope of the supplemental survey included the roof top equipment and piping, interior walls, ceilings and above ceiling areas of the building. The roof surface was not impacted since the roofing system was replaced with a single-ply membrane system. In addition, the supplemental survey excluded destructive testing of any ceramic, mirrors, or flooring systems.

Terracon collected sixty-four (64) samples from nineteen (19) homogeneous, suspect asbestos containing materials (ACMs). Laboratory analysis reported that one (1) of the materials sampled contains asbestos. Lead was detected in three (3) of the twelve (12) paint and material samples that were collected and analyzed. One painted surface associated with the metal access doors to the mechanical equipment rooms has known lead content. Please refer to the attached report for details.



Terracon appreciates the opportunity to provide this service to Contra Costa Community College District. If you have any questions regarding this report, please contact our office at your convenience.

Sincerely,  
**Terracon Consultants, Inc.**

Kenneth Pilgrim, CAC#03-3503  
Department Manager

Denise Wallen, CSST #15-5444  
Engineering Assistant

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# **SUPPLEMENTAL ASBESTOS AND LEAD SURVEY**

## **2600 Mission Bell Drive, Applied Arts Building**

### **San Pablo, California**

**Terracon Project No. R1197614**  
**June 24, 2020**

## **1.0 INTRODUCTION**

Terracon Consultants, Inc. (Terracon) conducted a supplemental asbestos and lead survey of the Applied Arts building located on the campus of Contra Costa Community College at 2600 Mission Bell Drive in San Pablo, California. The survey was conducted on May 5 and June 15, 2020 in general accordance with Terracon's proposal R1197614, dated March 27, 2020 and the asbestos sampling protocols established in Environmental Protection Agency (EPA) regulation 40 Code of Federal Regulations (CFR) Part 763 Subpart E 763.86, (Asbestos Hazard Emergency Response Act, AHERA). Sample collection of suspect asbestos-containing materials (ACMs) and lead-containing paint (LCP) was limited to the roof top air handling units, mechanical piping, interior walls and ceiling and above ceiling areas of the Applied Arts (AA) building.

### **1.1 Project Objective**

The objective of this project was to identify the presence or absence of ACMs and lead containing paint that may not have been previously sampled during a renovation survey of the AA Building conducted in February 2017 (reported dated March 12, 2017) and a limited scope survey associated with the replacement of the chiller/cooling tower conducted in June 2016 (reported dated June 29, 2016). The survey scope was limited to the suspect materials that likely will be impacted by the planned mechanical equipment and controls improvements including replacement of rooftop chilled water and hot water piping, air handling units, and variable air volume (VAVs) as needed. The exterior, roof, and flooring were excluded from the supplemental survey.

EPA regulation 40 CFR 61, Subpart M, the National Emission Standards for Hazardous Air Pollutants (NESHAP) prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP requires that regulated ACM be identified, classified, and quantified prior to planned disturbances, renovations, or demolition activities.

### **1.2 Reliance**

This report is for the exclusive use of Contra Costa Community College District (CCCCD) for the renovation work on the Applied Arts building of the building located at 2600 Mission Bell Drive in San Pablo, California. Reliance by any other party on this report is prohibited without written authorization of Terracon and CCCCCD. Reliance on this report by CCCCCD, and all authorized

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parties will be subject to the terms, conditions, and limitations stated in the proposal, this report and the project contract.

## **2.0 BUILDING DESCRIPTION**

The AA Building is on the Contra Costa Community College Campus located at 2600 Mission Bell Drive in San Pablo, California. The two-story building is utilized for educational and administration purposes. Typical interior finishes include drywall walls with limited drywall ceilings, suspended acoustical ceiling tile, carpet, and resilient flooring.

## **3.0 FIELD ACTIVITIES**

### **3.1 Asbestos and Lead**

The supplemental survey was conducted by Remington Caldwell, a certified California Division of Occupational Safety and Health (Cal-OSHA) Asbestos Consultant (CAC) and a California Department of Public Health (CDPH) Lead Inspector/Assessor. Copies of pertinent training certifications are included in Appendix E. The asbestos portion of the survey was conducted in general accordance with the sample collection protocols established in EPA 40 CFR Part 763 Subpart E 763.86, AHERA. A summary of survey activities is provided below.

### **3.2 Visual Assessment - Asbestos**

Survey activities were initiated with visual observation of the subject structure to identify homogeneous areas of suspect ACM. A homogeneous area (HA) consists of a building material that appears similar throughout in terms of color, size and texture with consideration given to the date of application. Existing building survey data summarized in the Limited Hazardous Materials Survey Report, dated March 17, 2017 was reviewed. The existing building survey data is attached in Appendix E. The asbestos containing sheet flooring and sink identified in the report was removed during the C-4008 Renovation project.

### **3.3 Physical Assessment - Asbestos**

A physical assessment of each HA of suspect ACM was conducted to assess the current friability and condition of the materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with EPA AHERA sampling protocols. Samples of suspect materials were collected from representative locations in each homogeneous area. Bulk samples were collected using wet

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methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

The selection of sample locations and frequency of sampling were based on Terracon's observations and the assumption that like materials in the same area are homogeneous in content.

Terracon collected sixty-four (64) samples from nineteen (19) homogeneous areas of suspect ACM. A summary of suspect ACM samples collected during the survey is included as Appendix A. A summary of the material reported as containing asbestos is included in Table I below.

### **3.4 Sample Analysis - Asbestos**

Asbestos bulk samples were submitted under chain of custody to Eurofins EMLab P&K (EML) in South San Francisco, California and to SGS Forensic Laboratories (Forensic) in Hayward, California for analysis by polarized light microscopy with dispersion staining techniques per EPA methodology 600/R-93/116. The percentage of asbestos, where applicable, was determined by microscopic visual estimation.

EML and Forensic are accredited under the National Voluntary Laboratory Accreditation Program. (NVLAP Accreditation No. 200728-0 and 101459-0, respectively). The laboratory reports for the asbestos bulk samples are included as Appendix B.

### **3.5 Lead Containing Paint**

Terracon collected six (6) paint chip samples to determine the lead content in parts per million (ppm) of the predominant painted surfaces in the areas likely to be impacted by the mechanical controls and HVAC improvement work. The suspect lead paint samples were collected in sealable containers and labeled with unique sample numbers using an indelible marker. A summary of the suspect paint samples and results is included in Table I.

### **3.6 Visual Assessment – Lead Containing Paint**

Inspection activities began with visual observations of painted surfaces to identify unique combinations of paint on building materials. A unique combination of paint consists of paint that is applied to a building material and has similar color, substrate and component.

### **3.7 Physical Assessment – Lead Containing Paint**

A physical assessment of the paint was conducted to assess the condition of the paint. Lead paint chip samples were collected to comply with Cal-OSHA regulations (Title 8 CCR 1532.1 – Lead

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Exposure in Construction) for the proposed renovation activities. Paint was sampled to identify potential worker exposure and potential disposal restrictions.

### Paint Analysis - Lead

The paint chip samples were submitted under chain of custody to SGS Forensic Laboratories (Forensic) in Hayward, California. The paint chip samples were analyzed by Flame Atomic Absorption method SW846-7420. Forensic is accredited by the American Industry Hygiene Association's (AIHA) Environmental Lead Laboratory Accreditation Program (ELLAP) (Lab Code 101762) to perform Flame Atomic Absorption analysis. The laboratory report for the lead paint chip samples is included as Appendix C.

## 4.0 REGULATORY OVERVIEW

### 4.1 Asbestos

The Asbestos NESHAP program in California is enforced by federal, state, and county Asbestos NESHAP Coordinators. For projects occurring in San Pablo, California, the Bay Area Air Quality Management District (BAAQMD) has been delegated authority from the EPA to enforce the Asbestos NESHAP within its respective jurisdictional boundaries, excluding tribal lands.

The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. The asbestos NESHAP regulation also requires the identification and classification of existing ACM according to friability prior to demolition or renovation activity. Friable ACM is a material containing more than 1% asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. All friable ACM is considered regulated asbestos-containing material (RACM). The NESHAP regulation is implemented locally by the BAAQMD under Regulation 11, Rule 2.

The asbestos NESHAP regulation classifies ACM as either RACM, Category I non-friable ACM or Category II non-friable ACM. RACM includes all friable ACM, along with Category I and Category II non-friable ACM that has become friable, will be or has been subjected to sanding, grinding, cutting or abrading, or ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder during renovation or demolition activity. Category I non-friable ACM are exclusively asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products that contain more than 1% asbestos. Category II non-friable ACM are all other non-friable materials other than Category I non-friable ACM that contain more than 1% asbestos.

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The California Department of Occupational Safety and Health (DOSH) asbestos standard for construction (Title 8 CCR 1529) regulates workplace exposure to asbestos. The DOSH standard requires that employee exposure to airborne asbestos must not exceed 0.1 fibers per cubic centimeter of air (0.1 f/cc) as an eight-hour time weighted average (TWA) and not exceed 1.0 fibers per cubic centimeter of air (1.0 f/cc) over a 30-minute time period known as an excursion limit (EL). The TWA and EL are known as DOSH's asbestos permissible exposure limits (PELs). The DOSH standard classifies construction and maintenance activities which could disturb ACM and specifies work practices and precautions which employers must follow when engaging in each class of regulated work.

### 4.2 Lead Containing Paint/Materials

Personnel performing demolition activities that may disturb painted components or materials with concentrations of lead above the designated analytical detection limit should comply with all current DOSH regulations to minimize employee exposure. DOSH defines lead containing paint as a paint, which contains lead, regardless of the concentration. Currently, any proposed renovation/demolition is subject to the DOSH regulations (Title 8 CCR 1532.1 – Lead Exposure in Construction). The DOSH regulation defines specific training requirements, engineering controls and working practices for construction personnel subject to this standard. Occupational exposure to lead occurring during construction work, including maintenance activities, painting, alteration and repairs is subject to the DOSH Lead Exposure in Construction standard.

Construction work covered by Title 8 CCR 1532.1 includes any repair or renovation activities or other activities that disturb in-place lead-containing materials. Employers must assure that no employee will be exposed to lead at concentrations greater than 50 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) averaged over an eight-hour period without adequate protection. The DOSH Standard also establishes an action level of 30  $\mu\text{g}/\text{m}^3$  which if exceeded triggers the requirement for medical monitoring.

Proper waste stream categorization is required for the disposal of all lead containing materials and painted construction debris with total lead content that exceeds 50 ppm. The debris should be classified as hazardous waste if lead waste concentrations exceed either the total lead concentration or soluble lead concentration regulatory limits. Total lead concentration is determined by Total Threshold Limit Concentration (TTLC). Soluble or leachable lead is determined by the Soluble Threshold Limit Concentration (STLC, California required test) and/or Toxicity Characteristic Leaching Procedure (TCLP) (Federal EPA required test). Regulatory limits characterize a lead waste as a hazardous waste if lead concentrations exceed 1,000 ppm by TTLC or 5 milligrams per liter by STLC or TCLP.

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The above overview is not intended to be inclusive of all potentially pertinent regulatory information. The relevant EPA and OSHA standards should be consulted prior to undertaking activities involving the demolition, renovation, or maintenance of surfaces coated with lead containing paints.

## 5.0 FINDINGS

### 5.1 Asbestos

Asbestos was detected in one (1) of the building materials identified and sampled during the supplemental survey. A summary of the sample locations and analytical results is below in Table I. In addition, the only asbestos materials identified in the existing building survey data was removed during the C-4008 renovation. A sample summary is included as Appendix A. Laboratory analytical reports are included as Appendix B. Sample locations are depicted on Figures 1 - 3 in Appendix D. The existing building survey data is attached in Appendix E.

**Table I – Asbestos Containing Material**

HM – Material Description	Material Location(s)	Waste Category	Asbestos Result	Estimated Quantity*
HM 17 – Brown Caulk	HVAC Well – Caulk between Louver Frame and Wood Trim	Cat. II	10% CH	30 sf or 3 sf

It should be reemphasized that although reasonable efforts were made to survey accessible suspect materials, additional suspect but un-sampled materials could be located under existing building materials, inside walls, above ceilings, in isolated areas or in other concealed areas. Therefore, if suspect materials are encountered during the planned mechanical improvements that do not appear to have been characterized as ACM or non-ACM, these materials must be assumed to be ACM until samples are collected and analyzed to prove otherwise. Any assumed material should be treated as asbestos or sampled to determine asbestos content before disturbing the material.

### 5.2 Lead Containing Paint

Terracon sampled nine (9) painted surfaces and three (3) building materials. Two (2) paint samples and one (1) material were reported to contain lead above the laboratory detection limit. The lead containing paint identified was in good condition and intact with exception of minor peeling paint identified on the wall louver in the former mechanical equipment well. A summary of the paint sample results and existing survey data is provided in Table I below. Paint reported with "<" is below the laboratory analytical reporting limit for the sample submitted.

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**Table I - Lead Containing Paint**

<b>Sample# - Material</b>	<b>Sample Location</b>	<b>Lead Concentration (ppm)</b>
Pb-1 – Beige Paint on Metal HVAC Units	Rooftop HVAC Unit 1-2	1,200 ppm
Pb-2 – Beige Paint on Drywall Wall	1 <sup>st</sup> Floor Room 113 above Ceiling Grid East Wall	< 60.0 ppm
Pb-3 – Red Caulk on Drywall Wall	1 <sup>st</sup> Floor Room 113 above Ceiling Grid East Wall	< 60.0 ppm
Pb-4 – Off-white Paint on Drywall Wall	2 <sup>nd</sup> Floor Electrical Room 222	< 60.0 ppm
Pb-5 – Beige Paint on Drywall Wall	2 <sup>nd</sup> Floor Janitorial Closet Room 231	< 60.0 ppm
Pb-6 – Beige Paint on Drywall Wall	1 <sup>st</sup> Floor Storage Room 138	< 60.0 ppm
Pb-7 – Silver Paint on Metal Louver	1 <sup>st</sup> Floor HVAC Well	1,600 ppm
Pb-8 – Brown Caulk on Metal and Wood Trim	1 <sup>st</sup> Floor – HVAC Well	21 ppm
Pb-9 – Brown Paint on Metal Handrail	Roof Level – Handrail	<70 ppm
Pb-10 – Gray Caulk on Single-ply and Metal	Roof Level at Handrail Connection to Roof	<20 ppm
Pb-11 – White Paint on Metal Single-ply Curb Cap	Roof Level – Curb Cap for HVAC Unit	<60 ppm
Pb-12 – White Paint on Metal Curb Cap	Roof Level – Curb Cap under HVAC Unit	<60 ppm
<b>Existing Survey Data – June 29, 2016</b>		
Pb-2 – Tan Paint on Stucco	Former Equipment Well	< 48.8 ppm
Pb-3 – Tan Paint on Metal Entry Door	Access Door to Mechanical/Air Handler Room	825 ppm
Pb-6 – Grey Paint on Drywall in Former Chiller Room	Former Chiller Room	< 60.0 ppm
Pb-7 – Grey Paint on Concrete Floor	Former Chiller Room	< 60.0 ppm

ppm = parts per million



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Uncharacterized paints and/or suspect materials should be assumed to contain lead until sampling and analysis prove otherwise.

## **6.0 LIMITATIONS/GENERAL COMMENTS**

Terracon did not perform any destructive testing such as knocking holes in walls, dismantling of equipment or removal of protective coverings during the survey. Uncharacterized hidden materials may exist under existing finishes, equipment or structural materials. The survey results are only valid for the specific survey area described in this report.

This supplemental asbestos and lead survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey at the subject site. The information contained in this report is relevant to the dates on which this survey was performed and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by Contra Costa Community College District for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made



## APPENDIX A

**2600 Mission Bell Drive, Applied Arts Building  
San Pablo, California**

**Terracon Project No. R1197614  
May 20 and June 15, 2020**

### ASBESTOS SAMPLE SUMMARY

HM #	Material Description	Sample #	Sample Location	Result	NESHAP Category	Condition
1	Gray HVAC Duct seam Mastic	1A	Roof AHU 1-2 Ducts	None Detected	N/A	Good
		1B	Roof AHU 1-2 Ducts	None Detected		
		1C	Roof AHU 2-1 Ducts	None Detected		
2	6" O.D. TSI fiberglass and metal paper Run and Elbows	2A	Roof adjacent to AHU 2-4	None Detected	N/A	Good
		2B	Roof adjacent to AHU 2-4	None Detected		
		2C	Roof adjacent to AHU 2-1	None Detected		
3	Gray Pipe Penetration Mastic	3A	Roof adjacent AGU 2-3 Pipe Conduit Penetration	None Detected	N/A	Good
		3B	Roof adjacent AGU 1-2 Pipe Conduit Penetration	None Detected		
		3C	Roof adjacent AGU 2-1 Pipe Conduit Penetration	None Detected		
4	White Vibration Joint Cloth	4A	Roof AHU 1-2	None Detected	N/A	Good
		4B	Roof AHU 2-3	None Detected		
		4C	Roof AHU 2-1	None Detected		

HM #	Material Description	Sample #	Sample Location	Result	NESHAP Category	Condition
5	Gray Mastic on Tie Down Bolts	5A	Roof AHU 2-3	None Detected	N/A	Good
		5B	Roof AHU 1-2	None Detected		
		5C	Roof AHU 2-1	None Detected		
6	Drywall and Joint Compound	6A	1st Floor above Ceiling adjacent to Room 122	None Detected	N/A	Good
		6B	1st Floor above Ceiling Room 109	None Detected		
		6C	1st Floor above Ceiling Corridor adjacent to Room 137	None Detected		
		6D	1st Floor Ceiling Deck over East Corridor	None Detected		
		6E	1st Floor Ceiling Deck over West Corridor	None Detected		
7	2'x4' White Ceiling Tile with Random Holes	7A	1st Floor adjacent to Room 122 Corridor Only	None Detected	N/A	Good
		7B	1st Floor adjacent to Room 109/109A Corridor Only	None Detected		
		7C	1st Floor adjacent to Room 137 Corridor Only	None Detected		
		7D	2nd Floor Corridor Northeast Area	None Detected		
8	Beige HVAC Seam Tape	8A	1st Floor above Ceiling adjacent to 117A-F on Duct	None Detected	N/A	Good
		8B	1st Floor above Ceiling Room 109	None Detected		
		8C	1st Floor above Ceiling Room 137	None Detected		
		8D	2nd Floor Corridor adjacent to Elevator Northwest Area	None Detected		
		8E	2nd Floor Corridor adjacent to Room 236 on Round Duct	None Detected		

HM #	Material Description	Sample #	Sample Location	Result	NESHAP Category	Condition
9	HVAC Seam Tape Painted Beige	9A	1st Floor Maintenance Storage Room 117B at Ceiling on HVAC Duct and VAV	None Detected	N/A	Good
		9B	1st Floor Maintenance Storage Room 117B at Ceiling on HVAC Duct and VAV	None Detected		
		9C	1st Floor Maintenance Storage Room 117B at Ceiling on HVAC Duct and VAV	None Detected		
10	1'x1' Ceiling Tile with Brown Glue	10A	1st Floor Maintenance Storage Room 117B on Ceiling deck	None Detected	N/A	Good
		10B	1st Floor Maintenance Storage Room 117B on Ceiling deck	None Detected		
		10C	1st Floor Maintenance Storage Room 117B on Ceiling deck	None Detected		
11	Red Fire Caulk	11A	1st Floor Room 113	None Detected	N/A	Good
		11B	1st Floor Room 113	None Detected		
		11C	1st Floor Room 137, Residual on VAV	None Detected		
		11D	2nd Floor Room 201A	None Detected		
12	Gray Mastic on VAVs	12A	1st Floor Maintenance Storage Room 117B	None Detected	N/A	Good
		12B	1st Floor Room 109	None Detected		
		12C	1st Floor Room 137	None Detected		
		12D	2nd Floor above Ceiling on Square Duct Room 202	None Detected		
13	2'x4' White Ceiling Tile with Fiberglass	13A	1st Floor Room 113	None Detected	N/A	Good
		13B	1st Floor Room 109	None Detected		
		13C	1st Floor Room 109	None Detected		

HM #	Material Description	Sample #	Sample Location	Result	NESHAP Category	Condition
14	2'x4' White Ceiling Tile with 1/2 Fissure and Holes	14A	2nd Floor Room 215 A-E West Area	None Detected	N/A	Good
		14B	2nd Floor Room 215 A-E Center Area	None Detected		
		14C	2nd Floor Room 215 A-E Northeast Area	None Detected		
15	Drywall and Joint Compound	15A	2nd Floor Room 222 Electrical Room	None Detected	N/A	Good
		15B	2nd Floor Room 231 Janitorial Room	None Detected		
		15C	2nd Floor Room 201C	None Detected		
16	Fiberglass Batt with Asphalt, Metal, and Moisture Resistant Paper	16A	2nd Floor Room 215 A-E West Area over Ceiling Tile	None Detected	N/A	Good
		16B	2nd Floor Room 215 A-E Center Area over Ceiling Tile	None Detected		
		16C	2nd Floor Room 215 A-E Northeast Area over Ceiling Tile	None Detected		
17	Brown Caulk	17A	HVAC Well – Caulk between Louver Frame and Wood Trim	10% CH	Cat. II	Good
		17B	HVAC Well – Caulk between Louver Frame and Wood Trim	10% CH		
		17C	HVAC Well – Caulk between Louver Frame and Wood Trim	10% CH		
18	Gray Caulk	18A	Roof – Handrail to Curb / Flashing Cap	None Detected	N/A	Good
		18B	Roof – Handrail to Curb / Flashing Cap	None Detected		
		18C	Roof – Handrail to Curb / Flashing Cap	None Detected		
19	White and Gray Caulk	19A	HVAC Curb for Single-ply Cap – Seam Sealant at Connection	None Detected	N/A	Good
		19B	HVAC Curb for Single-ply Cap – Seam Sealant at Connection	None Detected		
		19C	HVAC Curb for Single-ply Cap – Seam Sealant at Connection	None Detected		

## **APPENDIX B**

### **ASBESTOS ANALYTICAL LABORATORY DATA**



Report for:

**Mr. Kenneth Pilgrim**  
**Terracon Consultants, Inc. - Emeryville**  
1466 66th Street  
Emeryville, CA 94608

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Regarding: Project: R1197614; Contra Costa College-Applied Arts, 2600 Mission Bell Dr., San Pablo  
EML ID: 2401430

Approved by:



Approved Signatory  
Amin Suliman

Dates of Analysis:  
Asbestos PLM: 05-08-2020

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)  
NVLAP Lab Code 200728-0

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All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Terracon Consultants, Inc. - Emeryville  
 C/O: Mr. Kenneth Pilgrim  
 Re: R1197614; Contra Costa College-Applied Arts,  
 2600 Mission Bell Dr., San Pablo

Date of Sampling: 05-05-2020

Date of Receipt: 05-06-2020

Date of Report: 05-08-2020

**ASBESTOS PLM REPORT****Total Samples Submitted:** 55**Total Samples Analyzed:** 55**Total Samples with Layer Asbestos Content > 1%:** 0**Location: 1A, Grey HVAC duct seam mastic; roof; AHU 1-2; ducts**

Lab ID-Version‡: 11453419-1

Sample Layers	Asbestos Content
Gray Mastic	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 1B, Grey HVAC duct seam mastic; roof; AHU 1-2; ducts**

Lab ID-Version‡: 11453420-1

Sample Layers	Asbestos Content
Gray Mastic	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 1C, Grey HVAC duct seam mastic; roof; AHU 2-1; ducts**

Lab ID-Version‡: 11453421-1

Sample Layers	Asbestos Content
Gray Mastic	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 2A, 6" O.D. TSI fiberglass/metal paper (rond and elbows); roof; adj. AHU 2-4**

Lab ID-Version‡: 11453422-1

Sample Layers	Asbestos Content
Yellow Insulation	ND
Silver Foil	ND
<b>Composite Non-Asbestos Content:</b>	95% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

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C/O: Mr. Kenneth Pilgrim

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Date of Sampling: 05-05-2020

Date of Receipt: 05-06-2020

Date of Report: 05-08-2020

**ASBESTOS PLM REPORT****Location: 2B, 6" O.D. TSI fiberglass/metal paper (rond and elbows); roof; adj. AHU 2-4**

Lab ID-Version‡: 11453423-1

Sample Layers	Asbestos Content
Yellow Insulation	ND
Silver Foil	ND
<b>Composite Non-Asbestos Content:</b>	95% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 2C, 6" O.D. TSI fiberglass/metal paper (rond and elbows); roof; adj. AHU 2-1**

Lab ID-Version‡: 11453424-1

Sample Layers	Asbestos Content
Yellow Insulation	ND
Silver Foil	ND
<b>Composite Non-Asbestos Content:</b>	95% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 3A, Grey pipe penetration mastic; roof; adj. AGU 2-3; pipe conduit penetration**

Lab ID-Version‡: 11453425-1

Sample Layers	Asbestos Content
Gray Mastic	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 3B, Grey pipe penetration mastic; roof; adj. AGU 1-2; pipe conduit penetration**

Lab ID-Version‡: 11453426-1

Sample Layers	Asbestos Content
Gray Mastic	ND
<b>Sample Composite Homogeneity:</b>	Poor

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**ASBESTOS PLM REPORT****Location: 3C, Grey pipe penetration mastic; roof; adj. AGU 2-1; pipe conduit penetration**

Lab ID-Version‡: 11453427-1

Sample Layers	Asbestos Content
Gray Mastic	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 4A, White vibration joint cloth; roof; AHU 1-2**

Lab ID-Version‡: 11453428-1

Sample Layers	Asbestos Content
White Semi-Fibrous Material	ND
Yellow Mastic	ND
<b>Composite Non-Asbestos Content:</b>	65% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 4B, White vibration joint cloth; roof; AHU 2-3**

Lab ID-Version‡: 11453429-1

Sample Layers	Asbestos Content
White Semi-Fibrous Material	ND
Yellow Mastic	ND
<b>Composite Non-Asbestos Content:</b>	65% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 4C, White vibration joint cloth; roof; AHU 2-1**

Lab ID-Version‡: 11453430-1

Sample Layers	Asbestos Content
White Semi-Fibrous Material	ND
Yellow Mastic	ND
<b>Composite Non-Asbestos Content:</b>	65% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

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**ASBESTOS PLM REPORT****Location: 5A, Grey mastic on tie down bots; roof; AHU 2-3**

Lab ID-Version‡: 11453431-1

Sample Layers	Asbestos Content
Gray Mastic	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 5B, Grey mastic on tie down bots; roof; AHU 1-2**

Lab ID-Version‡: 11453432-1

Sample Layers	Asbestos Content
Gray Mastic	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 5C, Grey mastic on tie down bots; roof; AHU 2-1**

Lab ID-Version‡: 11453433-1

Sample Layers	Asbestos Content
Gray Mastic	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 6A, Drywall/joint compound; 1st fl; above ceiling; adj. room 122**

Lab ID-Version‡: 11453434-1

Sample Layers	Asbestos Content
White Compound	ND
White Drywall	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

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**ASBESTOS PLM REPORT****Location: 6B, Drywall/joint compound; 1st fl; above ceiling; room 109**

Lab ID-Version‡: 11453435-1

Sample Layers	Asbestos Content
White Compound	ND
White Drywall	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 6C, Drywall/joint compound; 1st fl; above ceiling; corridor adj. 137**

Lab ID-Version‡: 11453436-1

Sample Layers	Asbestos Content
White Compound	ND
White Drywall	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 7A, 2'x4' ceiling tile white; random hole; 1st fl; adj. room 122; corridor (only)**

Lab ID-Version‡: 11453437-1

Sample Layers	Asbestos Content
Off-White Ceiling Tile with White Surface	ND
Brown Mastic	ND
<b>Composite Non-Asbestos Content:</b>	48% Cellulose 48% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 7B, 2'x4' ceiling tile white; random hole; 1st fl; adj. room 109/109A; corridor (only)**

Lab ID-Version‡: 11453438-1

Sample Layers	Asbestos Content
Off-White Ceiling Tile with White Surface	ND
Brown Mastic	ND
<b>Composite Non-Asbestos Content:</b>	48% Cellulose 48% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

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**ASBESTOS PLM REPORT****Location: 7C, 2'x4' ceiling tile white; random hole; 1st fl; adj. room 137; corridor (only)**

Lab ID-Version‡: 11453439-1

Sample Layers	Asbestos Content
Off-White Ceiling Tile with White Surface	ND
Brown Mastic	ND
<b>Composite Non-Asbestos Content:</b>	48% Cellulose 48% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 8A, HVAC seam tape; beige; 1st fl; above ceiling; adj. 117A-F; on duct**

Lab ID-Version‡: 11453440-1

Sample Layers	Asbestos Content
White Tape	ND
Transparent Mastic	ND
<b>Composite Non-Asbestos Content:</b>	90% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 8B, HVAC seam tape; beige; 1st fl; above ceiling; room 109**

Lab ID-Version‡: 11453441-1

Sample Layers	Asbestos Content
White Tape	ND
Transparent Mastic	ND
<b>Composite Non-Asbestos Content:</b>	90% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 8C, HVAC seam tape; beige; 1st fl; above ceiling; room 137**

Lab ID-Version‡: 11453442-1

Sample Layers	Asbestos Content
White Tape	ND
Transparent Mastic	ND
<b>Composite Non-Asbestos Content:</b>	90% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

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**ASBESTOS PLM REPORT****Location: 9A, HVAC seam tape (painted beige); 1st fl maintenance storage room at ceiling on HVAC duct and VAV; rm 117B**

Lab ID-Version‡: 11453443-1

Sample Layers	Asbestos Content
Blue Tape with Paint	ND
<b>Composite Non-Asbestos Content:</b>	90% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 9B, HVAC seam tape (painted beige); 1st fl maintenance storage room at ceiling on HVAC duct and VAV; rm 117B**

Lab ID-Version‡: 11453444-1

Sample Layers	Asbestos Content
Blue Tape with Paint	ND
<b>Composite Non-Asbestos Content:</b>	90% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 9C, HVAC seam tape (painted beige); 1st fl maintenance storage room at ceiling on HVAC duct and VAV; rm 117B**

Lab ID-Version‡: 11453445-1

Sample Layers	Asbestos Content
Blue Tape with Paint	ND
<b>Composite Non-Asbestos Content:</b>	90% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 10A, 1'x1' ceiling tile with brown glue; 1st fl; maintenance storage room; rm 117B; on ceilinmg deck**

Lab ID-Version‡: 11453446-1

Sample Layers	Asbestos Content
Off-White Ceiling Tile with White Surface	ND
Brown Mastic	ND
<b>Composite Non-Asbestos Content:</b>	48% Cellulose 48% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

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**ASBESTOS PLM REPORT****Location: 10B, 1'x1' ceiling tile with brown glue; 1st fl; maintenance storage room; rm 117B; on ceilinmg deck**

Lab ID-Version‡: 11453447-1

Sample Layers	Asbestos Content
Off-White Ceiling Tile with White Surface	ND
Brown Mastic	ND
<b>Composite Non-Asbestos Content:</b>	48% Cellulose 48% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 10C, 1'x1' ceiling tile with brown glue; 1st fl; maintenance storage room; rm 117B; on ceilinmg deck**

Lab ID-Version‡: 11453448-1

Sample Layers	Asbestos Content
Off-White Ceiling Tile with White Surface	ND
Brown Mastic	ND
<b>Composite Non-Asbestos Content:</b>	48% Cellulose 48% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 11A, Red fire caulk; 1st fl; rm 113**

Lab ID-Version‡: 11453449-1

Sample Layers	Asbestos Content
Red Caulk	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 11B, Red fire caulk; 1st fl; rm**

Lab ID-Version‡: 11453450-1

Sample Layers	Asbestos Content
Red Caulk	ND
<b>Sample Composite Homogeneity:</b>	Poor

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**ASBESTOS PLM REPORT****Location: 11C, Red fire caulk; 1st fl; rm 137 residual on VAV**

Lab ID-Version‡: 11453451-1

Sample Layers	Asbestos Content
Red Caulk	ND
Sample Composite Homogeneity:	Poor

**Location: 12A, Grey mastic on VAV; room 117B**

Lab ID-Version‡: 11453452-1

Sample Layers	Asbestos Content
Gray Mastic	ND
Sample Composite Homogeneity:	Poor

**Location: 12B, Grey mastic on VAV; room 109**

Lab ID-Version‡: 11453453-1

Sample Layers	Asbestos Content
Gray Mastic	ND
Sample Composite Homogeneity:	Poor

**Location: 12C, Grey mastic on VAV; room 137**

Lab ID-Version‡: 11453454-1

Sample Layers	Asbestos Content
Gray Mastic	ND
Sample Composite Homogeneity:	Poor

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**ASBESTOS PLM REPORT****Location: 13A, 2x4 ceiling tile; white with fiberglass; room 113**

Lab ID-Version‡: 11453455-1

Sample Layers	Asbestos Content
White Ceiling Tile	ND
<b>Composite Non-Asbestos Content:</b>	95% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 13B, 2x4 ceiling tile; white with fiberglass; room 109**

Lab ID-Version‡: 11453456-1

Sample Layers	Asbestos Content
White Ceiling Tile	ND
<b>Composite Non-Asbestos Content:</b>	95% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 13C, 2x4 ceiling tile; white with fiberglass; room 109**

Lab ID-Version‡: 11453457-1

Sample Layers	Asbestos Content
White Ceiling Tile	ND
<b>Composite Non-Asbestos Content:</b>	95% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 11D, Red fire stop; 2nd fl; rm 201A**

Lab ID-Version‡: 11453458-1

Sample Layers	Asbestos Content
Red Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b>	Poor

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**ASBESTOS PLM REPORT****Location: 8D, Beige HVAC seam tape; 2nd fl; corridor; adj. elevator (NW area)**

Lab ID-Version‡: 11453459-1

Sample Layers	Asbestos Content
White Tape	ND
Beige Mastic	ND
<b>Composite Non-Asbestos Content:</b>	95% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 8E, Beige HVAC seam tape; 2nd fl; corridor; adj. rm 236**

Lab ID-Version‡: 11453460-1

Sample Layers	Asbestos Content
White Tape	ND
Beige Mastic	ND
<b>Composite Non-Asbestos Content:</b>	95% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 12D, Grey HVAC duct seam mastic; 2nd floor; above ceiling on square duct; room**

Lab ID-Version‡: 11453461-1

Sample Layers	Asbestos Content
Gray Mastic	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 7D, 2'x4' white ceiling tile with randown holes; 2nd fl; corridor (north) east area**

Lab ID-Version‡: 11453462-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	48% Cellulose 48% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

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**ASBESTOS PLM REPORT****Location: 14A, 2'x4; white ceiling tile with 1/2 fissure and hole; 2nd fl; room 215 A-E;  
west area**

Lab ID-Version‡: 11453463-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	48% Cellulose 48% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 14B, 2'x4; white ceiling tile with 1/2 fissure and hole; 2nd fl; room 215 A-E;  
center area**

Lab ID-Version‡: 11453464-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	48% Cellulose 48% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 14C, 2'x4; white ceiling tile with 1/2 fissure and hole; 2nd fl; room 215 A-E; NE  
area**

Lab ID-Version‡: 11453465-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	48% Cellulose 48% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 15A, Drywall/joint compound; 2nd fl; rm 222; electrical room**

Lab ID-Version‡: 11453466-1

Sample Layers	Asbestos Content
White Compound	ND
Tape	ND
White Joint Compound	ND
White Drywall	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

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**ASBESTOS PLM REPORT****Location: 15B, Drywall/joint compound; 2nd fl; rm 231; janitor room**

Lab ID-Version‡: 11453467-1

Sample Layers	Asbestos Content
White Compound	ND
Tape	ND
White Joint Compound	ND
Brown Drywall	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 15C, Drywall/joint compound; 2nd fl; rm 201C**

Lab ID-Version‡: 11453468-1

Sample Layers	Asbestos Content
White Compound	ND
Tape	ND
White Joint Compound	ND
White Drywall	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 16A, Fiberglass batt with asphalt and metal paper/(moisture resitant); 2nd fl; rm 215 A-E; west; over ceiling tile**

Lab ID-Version‡: 11453469-1

Sample Layers	Asbestos Content
Pink Insulation	ND
Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	65% Glass Fibers 30% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 16B, Fiberglass batt with asphalt and metal paper/(moisture resitant); 2nd fl; rm 215 A-E; center; over ceiling tile**

Lab ID-Version‡: 11453470-1

Sample Layers	Asbestos Content
Pink Insulation	ND
Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	65% Glass Fibers 30% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K 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.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Terracon Consultants, Inc. - Emeryville

C/O: Mr. Kenneth Pilgrim

Re: R1197614; Contra Costa College-Applied Arts,  
2600 Mission Bell Dr., San Pablo

Date of Sampling: 05-05-2020

Date of Receipt: 05-06-2020

Date of Report: 05-08-2020

**ASBESTOS PLM REPORT****Location: 16C, Fiberglass batt with asphalt and metal paper/(moisture resitant); 2nd fl;  
rm 215 A-E; NE area; over ceiling tile**

Lab ID-Version‡: 11453471-1

Sample Layers	Asbestos Content
Pink Insulation	ND
Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	65% Glass Fibers 30% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 6D, Drywall/joint compound-1st fl-ceiling deck-over corridor-east corridor**

Lab ID-Version‡: 11453472-1

Sample Layers	Asbestos Content
White Compound	ND
Tape	ND
White Joint Compound	ND
White Drywall	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 6E, Drywall/joint compound; 1st fl; ceiling deck; over corridor; west corridor**

Lab ID-Version‡: 11453477-1

Sample Layers	Asbestos Content
White Compound	ND
Tape	ND
White Joint Compound	ND
White Drywall	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

\*\*\*E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM)\*\*\*

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Engineering Assistant

ACM BULK SAMPLE DATA SHEET

- ☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

Project Name/ Address/ Building No. Contra Costa College - Applied Arts, 2600 Mission Bell Dr. San Pa

Project# R197614 Sampled By: R. Calhoun Sampling Date: 5/5/20 CA

Sample(s) sent to: ☐ MAL ☐ ASB TEM ☐ EMLAB ☐ Other

TAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM#	Material Description
Sample ID	Sample Location & Material Location Quantity:
1 A	Roof - AHU 1-2 - ducts
1 B	1 - AHU 2-1
1 C	1 - AHU 2-1
HM#	Material Description: 6" O.D. + SI - Fiberglass/Metal paper (Run & Elbows)
Sample ID	Sample Location & Material Location Quantity:
2 A	Roof - Adj AHU 2-4
2 B	1 - 1 - 2-1
2 C	1 - 1 - 2-1
HM#	Material Description: Grey pipe Penetration Mastic
Sample ID	Sample Location & Material Location Quantity:
3 A	Roof - Adj AHU 2-3 - pipe Conduit Penetration
3 B	1 - Adj AHU 1-2 - 1
3 C	1 - Adj AHU 2-1
HM#	Material Description: white Vibration & Joint cloth
Sample ID	Sample Location & Material Location Quantity:
4 A	Roof - AAU 1-2
4 B	1 - AHU 2-3
4 C	1 - AHU 2-1
HM#	Material Description: Grey Mastic on <del>Butt</del> tie-Down Bolts
Sample ID	Sample Location & Material Location Quantity:
5 A	Roof - AHU 2-3
5 B	1 - AHU 1-2
5 C	1 - AHU 2-1



Relinquished By: Romy Calhoun Signature: [Signature] Date/Time: 5/5/20  
 Received By: [Signature] Signature: [Signature] Date/Time: 5/6/20  
 Relinquished By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

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ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

Project Name/ Address/ Building No. Contra Costa College - Applied Arts, 2600 Mission Bell Dr. San Pablo CA

Project# R197614 Sampled By: R. Calender Sampling Date: 5/5/20

Sample(s) sent to: ☐ MAL ☐ ASB TEM ☐ EMLAB ☐ Other

TAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM#	Material Description	Sample Location & Material Location	Quantity:
6 A	Drywall / Joint Compound	1st Fl - Above Ceiling - Adj. Rm 122	
6 B		Room 109	
6 C		Corridor Adj 137	
HM#	Material Description:	Sample Location & Material Location	Quantity:
7 A	2'x4' Ceiling tile - white - Random Hole	1st Fl - Adj. Room 122 - Corridor (only)	
7 B		Adj. Rm 109/109A - Corridor	
7 C		Adj. Rm 137 - Corridor	
HM#	Material Description:	Sample Location & Material Location	Quantity:
8 A	HVAC Seam tape - Beige	1st Fl - Above Ceiling - Adj. 117A - F- and Duct	
8 B		Room 109	
8 C		Rm 137	
HM#	Material Description:	Sample Location & Material Location	Quantity:
9 A	HVAC Seam tape (Painted Beige)	1st Fl Maintenance Storage Rm - at Ceiling and HVAC Duct + VAC	Rm 117B
9 B			Rm 117B
9 C			Rm 117B
HM#	Material Description:	Sample Location & Material Location	Quantity:
10 A	1'x1' Ceiling tile w/ Brown glue	1st Fl - Maintenance Storage Room - Rm 117B - on Ceiling Deck	
10 B			
10 C			

Relinquished By: Romy Calender Signature: [Signature] Date/Time: 5/5/20

Received By: [Signature] Signature: [Signature] Date/Time: 5/6/20 1000

Relinquished By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_



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ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

Project Name/ Address/ Building No. Contra Costa College - Applied Arts, 2600 Mission Bell Dr. San Pablo, CA

Project# R1197614 Sampled By: R. Caldeira Sampling Date: 5/5/20

Sample(s) sent to: ☐ MAL ☐ ASB TEM ☐ EMLAB ☐ Other

TAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM#	Material Description	Sample ID	Sample Location & Material Location	Quantity:
	Red Fire Caulk			
		11 A	1st Fl - Rm 113	
		11 B	1 - Rm	
		11 C	1 - Rm 137 Residual on UAV	
	Gray Mortar on UAV			
		12 A	Room 117 B	
		12 B	Room 109	
		12 C	Room 137	
	2x4 Ceiling tile, white w/ Fiberglass			
		13 A	Room 113	
		13 B	Room 109	
		13 C	Room 109	
	Red Fire stop			
		11 D	2nd Fl - Rm 201A	
	Boys HVAC Beam tape			
		8 D	2nd Fl - Corridor Adj. Elevator (N.W. Area)	
		8 E	1 - Corridor Adj. Rm 236 - Round Duct	

002401430

Relinquished By: Romy Caldeira Signature: \_\_\_\_\_ Date/Time: 5/5/20

Received By: [Signature] Signature: \_\_\_\_\_ Date/Time: 5/6/20

Relinquished By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_



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ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

Project Name/ Address/ Building No. Contra Costa College - Applied Arts, 2600 Mission Bell Dr. San Pablo CA

Project# R1197614 Sampled By: R. Calhoun Sampling Date: 5/5/20

Sample(s) sent to: ☐ MAL ☐ ASB TEM ☐ EMLAB ☐ Other

TAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM#	Material Description	Sample Location & Material Location	Quantity:
	Grey Hume Duct Seam Tape Mastic		
12D	2nd Floor - Above Ceiling on Square Duct - Room		
HM#	Material Description:	Sample Location & Material Location	Quantity:
	2'x4' white Ceiling tile w/ holes Random Holes		
7D	2nd Fl - Corridor (North) East Area		
HM#	Material Description:	Sample Location & Material Location	Quantity:
	2'x4' white Ceiling tile w/ 1/2" Fissure + hole		
14 A	2nd Fl - Room 215 A-E - West Area		
14 B	Center Area		
14 C	2nd Fl - Room 215 A-E - West Area		
HM#	Material Description:	Sample Location & Material Location	Quantity:
	DRY w/ Joint Compound		
15 A	2nd Fl - Rm 222 - Electrical Rm		
15 B	1 - Rm 231 - Janitor Room		
15 C	1 - Rm 201C		
HM#	Material Description:	Sample Location & Material Location	Quantity:
	Fiberglass Batt w/ Asphalt + Metal paper		
	Moisture Resistant		
16 A	2nd Fl - Rm 215 A-E - West Area - OVER Ceiling tile		
16 B	Center Area		
16 C	2nd Fl - Rm 215 A-E - West Area		

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Received By: [Signature] Signature: [Signature] Date/Time: 5/6/20 1000

Relinquished By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_



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**ACM BULK SAMPLE DATA SHEET**

- ☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

Project Name/ Address/ Building No. Contra Costa College - Applied Arts, 2600 Mission Bell Dr. San Pablo, CA

Project# R1197614 Sampled By: R. Calhoun Sampling Date: 5/5/20

Sample(s) sent to: ☐ MAL ☐ ASB TEM ☐ EMLAB ☐ Other

TAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM#	Material Description	Sample Location & Material Location	Quantity:
6D	Drywall / Joint Compound	1st Fl - Ceiling Deck - over Corridor - East Corridor	
6E		1st Fl - Ceiling Deck - over Corridor - West Corridor	
7A	Material Description:	Sample Location & Material Location	Quantity:
7B			
8A	Material Description:	Sample Location & Material Location	Quantity:
8B			
9A	Material Description:	Sample Location & Material Location	Quantity:
9B			
10A	Material Description:	Sample Location & Material Location	Quantity:
10B			

Relinquished By: R. Calhoun Signature: [Signature] Date/Time: 5/5/20  
 Received By: [Signature] Signature: [Signature] Date/Time: 5/6/20  
 Relinquished By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_





# Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

Terracon - Emeryville  
K. Pilgrim  
1466 66th St.

Emeryville, CA 94608

**Client ID:** L1969  
**Report Number:** B304825  
**Date Received:** 06/16/20  
**Date Analyzed:** 06/16/20  
**Date Printed:** 06/17/20  
**First Reported:** 06/17/20

**Job ID/Site:** R1197614 - CCCCD-AA Bldg, San Pablo, CA

**SGSFL Job ID:** L1969  
**Total Samples Submitted:** 9  
**Total Samples Analyzed:** 9

**Date(s) Collected:** 06/15/2020

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
<b>17A</b>	12313550						
Layer: Brown Non-Fibrous Material		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
<b>17B</b>	12313551						
Layer: Brown Non-Fibrous Material		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
<b>17C</b>	12313552						
Layer: Brown Non-Fibrous Material		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
<b>18A</b>	12313553						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
<b>18B</b>	12313554						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
<b>18C</b>	12313555						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
<b>19A</b>	12313556						
Layer: Grey Non-Fibrous Material			ND				
Layer: White Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					

**Client Name:** Terracon - Emeryville

**Report Number:** B304825

**Date Printed:** 06/17/20

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
<b>19B</b>	12313557						
Layer: Grey Non-Fibrous Material			<b>ND</b>				
Layer: White Non-Fibrous Material			<b>ND</b>				
Total Composite Values of Fibrous Components:		<b>Asbestos (ND)</b>					
<b>19C</b>	12313558						
Layer: Grey Non-Fibrous Material			<b>ND</b>				
Layer: White Non-Fibrous Material			<b>ND</b>				
Total Composite Values of Fibrous Components:		<b>Asbestos (ND)</b>					



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

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

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\*\*\*E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM)\*\*\*

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Engineering Assistant

## ACM BULK SAMPLE DATA SHEET

- ☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

Project Name/ Address/ Building No. CCCCD - AABldg - San Pablo, CA

Project# R1197614 Sampled By: R. C. [Signature] Sampling Date: 6/15/20

Sample(s) sent to: ☐ MAL ☐ ASB TEM ☐ EMLAB ☐ Other Fernandez

TAT ☐ Rush ☒ 24HRS ☐ 48HR ☐ 3-5 days

HM#	Material Description
Sample ID	Sample Location & Material Location
17A	HVAC well - Caulk Between Cover Frame & hood trim
17B	I = I I I
17C	I = I I I
HM#	Material Description:
Sample ID	Sample Location & Material Location
18A	Root - Hand Rail to Curb/Flashing Cap
18B	I =
18C	I =
HM#	Material Description:
Sample ID	Sample Location & Material Location
19A	HVAC Curb (For Single ply) CAP - Seam Sealant at Connections
19B	I = I
19C	I = I
HM#	Material Description:
Sample ID	Sample Location & Material Location
HM#	Material Description:
Sample ID	Sample Location & Material Location

Relinquished By:

Received By:

Relinquished By:

Received By:

Signature:

Signature:

Signature:

Signature:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

## **APPENDIX C**

### **LEAD ANALYTICAL LABORATORY DATA**

## Metals Analysis of Paints

(AIHA-LAP, LLC Accreditation, Lab ID #101762)

Terracon - Emeryville  
K. Pilgrim  
1466 66th St.

Emeryville, CA 94608

**Client ID:** L1969  
**Report Number:** M225101  
**Date Received:** 05/06/20  
**Date Analyzed:** 05/08/20  
**Date Printed:** 05/08/20  
**First Reported:** 05/08/20

**Job ID / Site:** R1197614, Contra Costa College- Applied Arts, 2600 Mission Blvd., San Pablo,  
CA

**Date(s) Collected:** 05/05/20

**SGSFL Job ID:** L1969

**Total Samples Submitted:** 6

**Total Samples Analyzed:** 6

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
PB-1	30870484	Pb	0.012	wt%	0.006	EPA 3050B/7000B
PB-2	30870485	Pb	< 0.006	wt%	0.006	EPA 3050B/7000B
PB-3	30870486	Pb	< 0.006	wt%	0.006	EPA 3050B/7000B
PB-4	30870487	Pb	< 0.006	wt%	0.006	EPA 3050B/7000B
PB-5	30870488	Pb	< 0.006	wt%	0.006	EPA 3050B/7000B
PB-6	30870489	Pb	< 0.006	wt%	0.006	EPA 3050B/7000B

\* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.



Daniele Siu, Laboratory Supervisor, Hayward Laboratory

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ACM BULK SAMPLE DATA SHEET

- ☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

Project Name/ Address/ Building No. Contra Costa College - Applied Arts, 2600 Mission Bell Dr. San Pa

Project# R197614 Sampled By: R. Calhoun Sampling Date: 5/5/20 CA

Sample(s) sent to: ☐ MAL ☐ ASB TEM ☐ EMLAB ☐ Other

TAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM#	Material Description
Sample ID	Sample Location & Material Location Quantity:
1 A	Roof - AHU 1-2 - ducts
1 B	1 - AHU 2-1
1 C	1 - AHU 2-1
HM#	Material Description: 6" O.D. + SI - Fiberglass/Metal paper (Run & Elbows)
Sample ID	Sample Location & Material Location Quantity:
2 A	Roof - Adj AHU 2-4
2 B	1 - 1 - 2-1
2 C	1 - 1 - 2-1
HM#	Material Description: Grey pipe Penetration Mastic
Sample ID	Sample Location & Material Location Quantity:
3 A	Roof - Adj AHU 2-3 - pipe Conduit Penetration
3 B	1 - Adj AHU 1-2 - 1
3 C	1 - Adj AHU 2-1
HM#	Material Description: white Vibration & Joint cloth
Sample ID	Sample Location & Material Location Quantity:
4 A	Roof - AAU 1-2
4 B	1 - AHU 2-3
4 C	1 - AHU 2-1
HM#	Material Description: Grey Mastic on <del>Butt</del> tie-Down Bolts
Sample ID	Sample Location & Material Location Quantity:
5 A	Roof - AHU 2-3
5 B	1 - AHU 1-2
5 C	1 - AHU 2-1



Relinquished By: Romy Calhoun Signature: [Signature] Date/Time: 5/5/20  
 Received By: [Signature] Signature: [Signature] Date/Time: 5/6/20  
 Relinquished By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_



\*\*\*E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM)\*\*\*

☐ PM - S. Steiner  
spsteiner@terracon.com

☐ PM - K. Schroeter  
kmschroeter@terracon.com

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kmpilgrim@terracon.com

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wmfrieszell@terracon.com

☐ PM - D. Block  
David.block@terracon.com

☐ denise.wallen@terracon.com  
Engineering Assistant

☐ eric.dyer@terracon.com  
Engineering Assistant

ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

Project Name/ Address/ Building No. Contra Costa College - Applied Arts, 2600 Mission Bell Dr. San Pablo CA

Project# R197614 Sampled By: R. Calender Sampling Date: 5/5/20

Sample(s) sent to: ☐ MAL ☐ ASB TEM ☐ EMLAB ☐ Other

TAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM#	Material Description	Sample Location & Material Location	Quantity:
6 A	Drywall / Joint Compound	1st Fl - Above Ceiling - Adj. Rm 122	
6 B		Room 109	
6 C		Corridor Adj 137	
HM#	Material Description:	Sample Location & Material Location	Quantity:
7 A	2'x4' Ceiling tile - white - Random Hole	1st Fl - Adj. Room 122 - Corridor (only)	
7 B		Adj. Rm 109/109A - Corridor	
7 C		Adj. Rm 137 - Corridor	
HM#	Material Description:	Sample Location & Material Location	Quantity:
8 A	HVAC Seam tape - Beige	1st Fl - Above Ceiling - Adj. 117A - F- and Duct	
8 B		Room 109	
8 C		Rm 137	
HM#	Material Description:	Sample Location & Material Location	Quantity:
9 A	HVAC Seam tape (Painted Beige)	1st Fl Maintenance Storage Rm - at Ceiling and HVAC Duct + VAV - Rm 117B	
9 B		Room 117B	
9 C		Room 117B	
HM#	Material Description:	Sample Location & Material Location	Quantity:
10 A	1'x1' Ceiling tile w/ Brown glue	1st Fl - Maintenance Storage Room - Rm 117B - on Ceiling Deck	
10 B			
10 C			

Relinquished By: Romy Calender Signature: [Signature] Date/Time: 5/5/20

Received By: [Signature] Signature: [Signature] Date/Time: 5/6/20 1000

Relinquished By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_





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Engineering Assistant

ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

Project Name/ Address/ Building No. Contra Costa College - Applied Arts, 2600 Mission Bell Dr. San Pablo CA

Project# R197614 Sampled By: R. Caldeira Sampling Date: 5/5/20

Sample(s) sent to: ☐ MAL ☐ ASB TEM ☐ EMLAB ☐ Other

TAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM#	Material Description	Sample ID	Sample Location & Material Location	Quantity:
	Red Fire Caulk			
		11 A	1st Fl - Rm 113	
		11 B	1 - Rm	
		11 C	1 - Rm 137 Residual on UAV	
	Gray Mastic on UAV			
		12 A	Room 117 B	
		12 B	Room 109	
		12 C	Room 137	
	2x4 Ceiling tile, white w/ Fiberglass			
		13 A	Room 113	
		13 B	Room 109	
		13 C	Room 109	
	Red Fire stop			
		11 D	2nd Fl - Rm 201A	
	Boys HVAC Beam tape			
		8 D	2nd Fl - Corridor Adj. Elevator (N.W. Area)	
		8 E	1 - Corridor Adj. Rm 236 - Round Duct	

002401430

Relinquished By: Romy Caldeira Signature: \_\_\_\_\_ Date/Time: 5/5/20

Received By: [Signature] Signature: \_\_\_\_\_ Date/Time: 5/6/20

Relinquished By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

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☐ eric.dyer@terracon.com  
Engineering Assistant

ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

Project Name/ Address/ Building No. Contra Costa College - Applied Arts, 2600 Mission Bell Dr. San Pablo CA

Project# R1197614 Sampled By: R. Calhoun Sampling Date: 5/5/20

Sample(s) sent to: ☐ MAL ☐ ASB TEM ☐ EMLAB ☐ Other

TAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM#	Material Description	Sample Location & Material Location	Quantity:
	Grey Hume Duct Seam <del>type</del> Mastic		
12D	2nd Floor - Above Ceiling on Square Duct - Room		
HM#	Material Description:	Sample Location & Material Location	Quantity:
	2'x4' white Ceiling tile w/ holes Random Holes		
7D	2nd Fl - Corridor (North) East Area		
HM#	Material Description:	Sample Location & Material Location	Quantity:
	2'x4' white Ceiling tile w/ 1/2" Fissure + hole		
14 A	2nd Fl - Room 215 A-E - West Area		
14 B	Center Area		
14 C	2nd Fl - Room 215 A-E - West Area		
HM#	Material Description:	Sample Location & Material Location	Quantity:
	DRY w/ Joint Compound		
15 A	2nd Fl - Rm 222 - Electrical Rm		
15 B	1 - Rm 231 - Janitor Room		
15 C	1 - Rm 201C		
HM#	Material Description:	Sample Location & Material Location	Quantity:
	Fiberglass Batt w/ Asphalt + metal paper		
	Moisture Resistant		
16 A	2nd Fl - Rm 215 A-E - West Area - OVER Ceiling tile		
16 B	Center Area		
16 C	2nd Fl - Rm 215 A-E - West Area		

Relinquished By: R. Calhoun Signature: [Signature] Date/Time: 5/5/20

Received By: [Signature] Signature: [Signature] Date/Time: 5/6/20 1000

Relinquished By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

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Engineering Assistant

☐ eric.dyer@terracon.com  
Engineering Assistant

**ACM BULK SAMPLE DATA SHEET**

- ☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

Project Name/ Address/ Building No. Contra Costa College - Applied Arts, 2600 Mission Bell Dr. San Pablo, CA

Project# R1197614 Sampled By: R. Calhoun Sampling Date: 5/5/20

Sample(s) sent to: ☐ MAL ☐ ASB TEM ☐ EMLAB ☐ Other

TAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM#	Material Description	Sample Location & Material Location	Quantity:
6D	Drywall / Joint Compound	1st Fl - Ceiling Deck - over Corridor - East Corridor	
6E		1st Fl - Ceiling Deck - over Corridor - West Corridor	
7A	Material Description:	Sample Location & Material Location	Quantity:
7B			
8A	Material Description:	Sample Location & Material Location	Quantity:
8B			
9A	Material Description:	Sample Location & Material Location	Quantity:
9B			
10A	Material Description:	Sample Location & Material Location	Quantity:
10B			

Relinquished By: R. Calhoun Signature: [Signature] Date/Time: 5/5/20  
 Received By: [Signature] Signature: [Signature] Date/Time: 5/6/20  
 Relinquished By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_



## Metals Analysis of Paints

(AIHA-LAP, LLC Accreditation, Lab ID #101762)

Terracon - Emeryville  
K. Pilgrim  
1466 66th St.

Emeryville, CA 94608

**Client ID:** L1969  
**Report Number:** M225910  
**Date Received:** 06/16/20  
**Date Analyzed:** 06/17/20  
**Date Printed:** 06/17/20  
**First Reported:** 06/17/20

**Job ID / Site:** R1197614 - CCCCC-AA Bldg. San Pablo, CA  
**Date(s) Collected:** 6/15/2020

**SGSFL Job ID:** L1969  
**Total Samples Submitted:** 4  
**Total Samples Analyzed:** 4

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
PB7	30871819	Pb	0.16	wt%	0.02	EPA 3050B/7000B
PB9	30871821	Pb	< 0.007	wt%	0.007	EPA 3050B/7000B
PB11	30871823	Pb	< 0.007	wt%	0.007	EPA 3050B/7000B
PB12	30871824	Pb	< 0.006	wt%	0.006	EPA 3050B/7000B

\* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.



Daniele Siu, Laboratory Supervisor, Hayward Laboratory

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# Metals Analysis of Bulks - TTLC

(AIHA-LAP, LLC Accreditation, Lab ID #101762)

Terracon - Emeryville  
K. Pilgrim  
1466 66th St.

Emeryville, CA 94608

**Client ID:** L1969  
**Report Number:** M225923  
**Date Received:** 06/16/20  
**Date Analyzed:** 06/17/20  
**Date Printed:** 06/17/20  
**First Reported:** 06/17/20

**Job ID / Site:** R1197614 - CCCCC-AA Bldg. San Pablo, CA  
**Date(s) Collected:** 6/15/2020

**SGSFL Job ID:** L1969  
**Total Samples Submitted:** 2  
**Total Samples Analyzed:** 2

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
PB-8	30871820	Pb	21	mg/kg	7	EPA 3050B/7000B
PB10	30871822	Pb	< 20	mg/kg	20	EPA 3050B/7000B

\* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.



Daniele Siu, Laboratory Supervisor, Hayward Laboratory

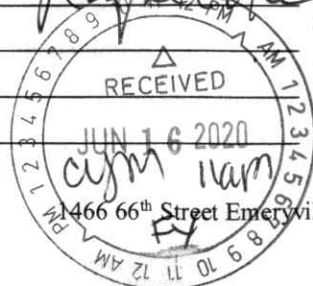
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<b>***E-MAIL REPORT TO: PROJECT MANAGER (PM)***</b>				<b>LEAD PAINT SAMPLE DATA SHEET</b>	
<input type="checkbox"/> <u>denise.wall@terracon.com</u> Engineering Assistant		<input type="checkbox"/> <u>eric.dyer@terracon.com</u> Engineering Assistant		* Lead Analysis <input checked="" type="checkbox"/> Flame AA (EPA 7420) _____ TTLC <div style="text-align: right;">PAGE <u>1</u> OF <u>2</u></div>	
<input type="checkbox"/> PM - S. Steiner <u>spsteiner@terracon.com</u>		<input type="checkbox"/> PM - K. Schroeter <u>kmschroeter@terracon.com</u>			
<input checked="" type="checkbox"/> PM - K. Pilgrim <u>kmpilgrim@terracon.com</u>	<input type="checkbox"/> PM - M. Benefield <u>mbsbenefield@terracon.com</u>	<input type="checkbox"/> PM - W. Frieszell <u>wmfrieszell@terracon.com</u>	<input type="checkbox"/> PM - T. Kattchee <u>takattchee@terracon.com</u>	<input type="checkbox"/> PM - D. Block <u>david.block@terracon.com</u>	

Project Name/ Address/ Building No. CCCCD - AABldg. San Pablo, CA  
 Project# R1197614 Sampled By: R. Calhoun Sampling Date: 6/15/  
 Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☐ Quantem Other \_\_\_\_\_  
 TAT ☐ Rush ☒ 24HRS ☐ 48HRS ☐ 3-5 Day

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
pb 7	Paint Color: <u>Silver</u> Substrate: <u>metal</u> Component: <u>Louver</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>HVAC well - on louver</u>	
pb-8	Paint Color: <u>Brown Can/HC</u> Substrate: <u>metal + wood trim</u> Component: <u>TRIM Can/HC</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>HVAC well - on louver frame + wood trim</u>	
pb 9	Paint Color: <u>Brown Rail</u> Substrate: <u>metal</u> Component: <u>Hand Rail</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Roof top - Hand Rail</u>	
pb 10	Paint Color: <u>Grey Caulk</u> Substrate: <u>Single Ply/metal</u> Component: <u>Caulk</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Roof at Hand Rail Connection to Roof</u>	
pb 11	Paint Color: <u>white</u> Substrate: <u>metal</u> Component: <u>Single Ply Curb Cap</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Roof - Curb Cap - For HVAC unit</u>	

Relinquished By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: 6/15  
 Received By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_





<b>***E-MAIL REPORT TO: PROJECT MANAGER (PM)***</b>			<b>LEAD PAINT SAMPLE DATA SHEET</b>	
<input type="checkbox"/> <u>denise.wall@terracon.com</u> Engineering Assistant	<input type="checkbox"/> <u>eric.dyer@terracon.com</u> Engineering Assistant	* Lead Analysis <input checked="" type="checkbox"/> Flame AA (EPA 7420) _____ TTLC <div style="text-align: right;">PAGE <u>2</u> OF <u>2</u></div>		
<input type="checkbox"/> PM - S. Steiner <u>spsteiner@terracon.com</u>	<input type="checkbox"/> PM - K. Schroeter <u>kmschroeter@terracon.com</u>			
<input checked="" type="checkbox"/> PM - K. Pilgrim <u>kmpilgrim@terracon.com</u>	<input type="checkbox"/> PM - M. Benefield <u>msbenefield@terracon.com</u>	<input type="checkbox"/> PM - W. Frieszell <u>wmfrieszell@terracon.com</u>	<input type="checkbox"/> PM - T. Kattchee <u>takattchee@terracon.com</u>	<input type="checkbox"/> PM - D. Block <u>david.block@terracon.com</u>

Project Name/ Address/ Building No. CCCC D. Apt Building, San Pablo, CA  
 Project# R1197614 Sampled By: R. Galt Sampling Date: 6/15/20  
 Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☐ Quantem Other Forensic  
 TAT ☐ Rush ☒ 24HRS ☐ 48HRS ☐ 3-5 Day

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
pb-12	Paint Color: <u>white</u> Substrate: <u>metal</u> Component: <u>Curb Cap</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Roof - Curb Cap under HVAC unit</u>	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	

Relinquished By:

Received By:

Received By:

Signature:

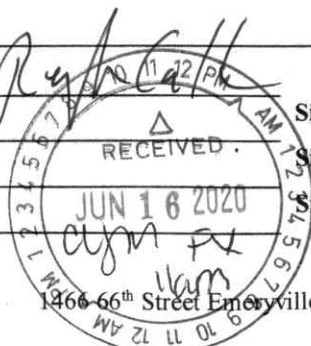
Signature:

Signature:

Date/Time:

Date/ Time:

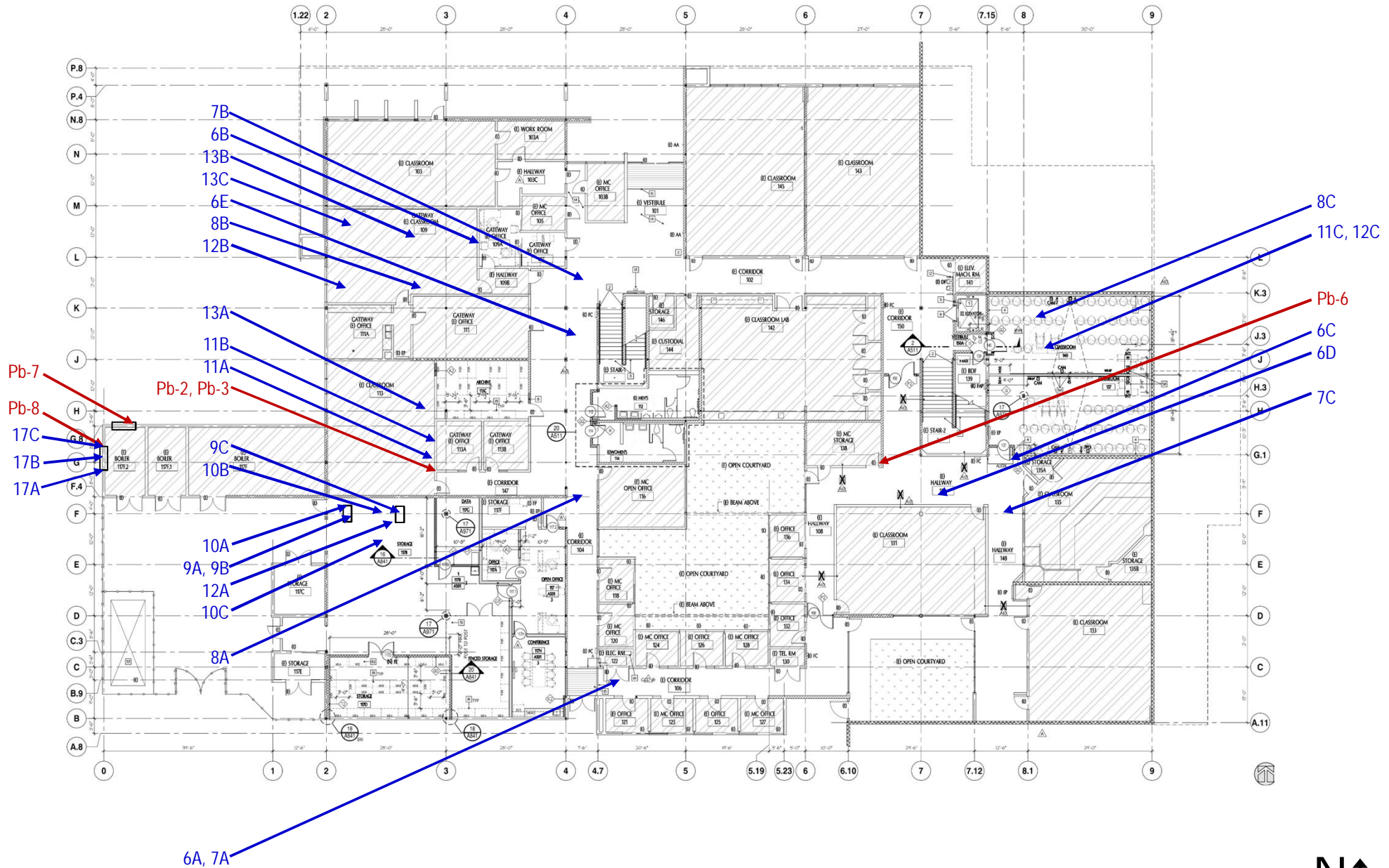
Date/Time:




## **APPENDIX D**

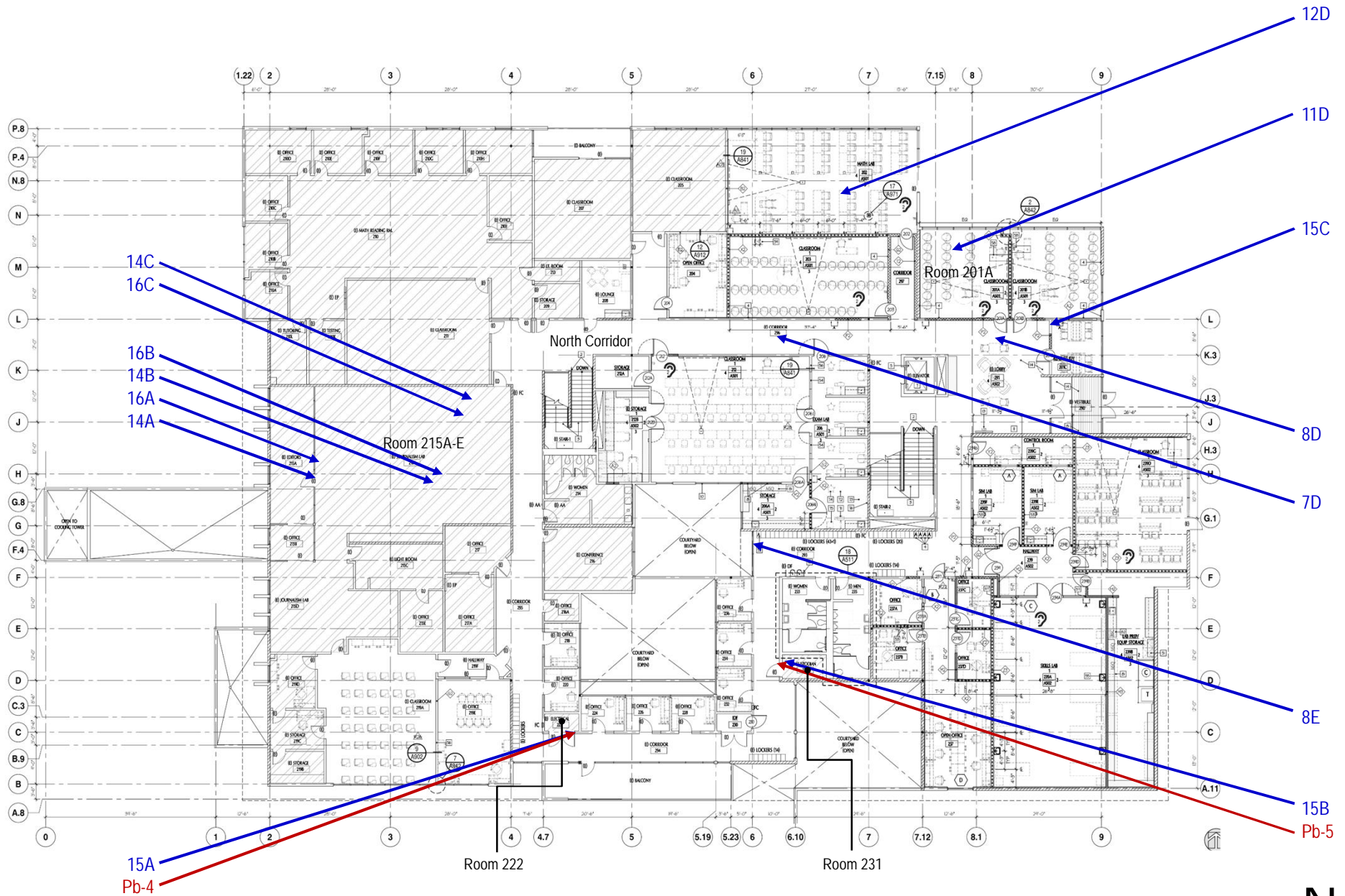
### **SAMPLE LOCATION FIGURES**






N↑

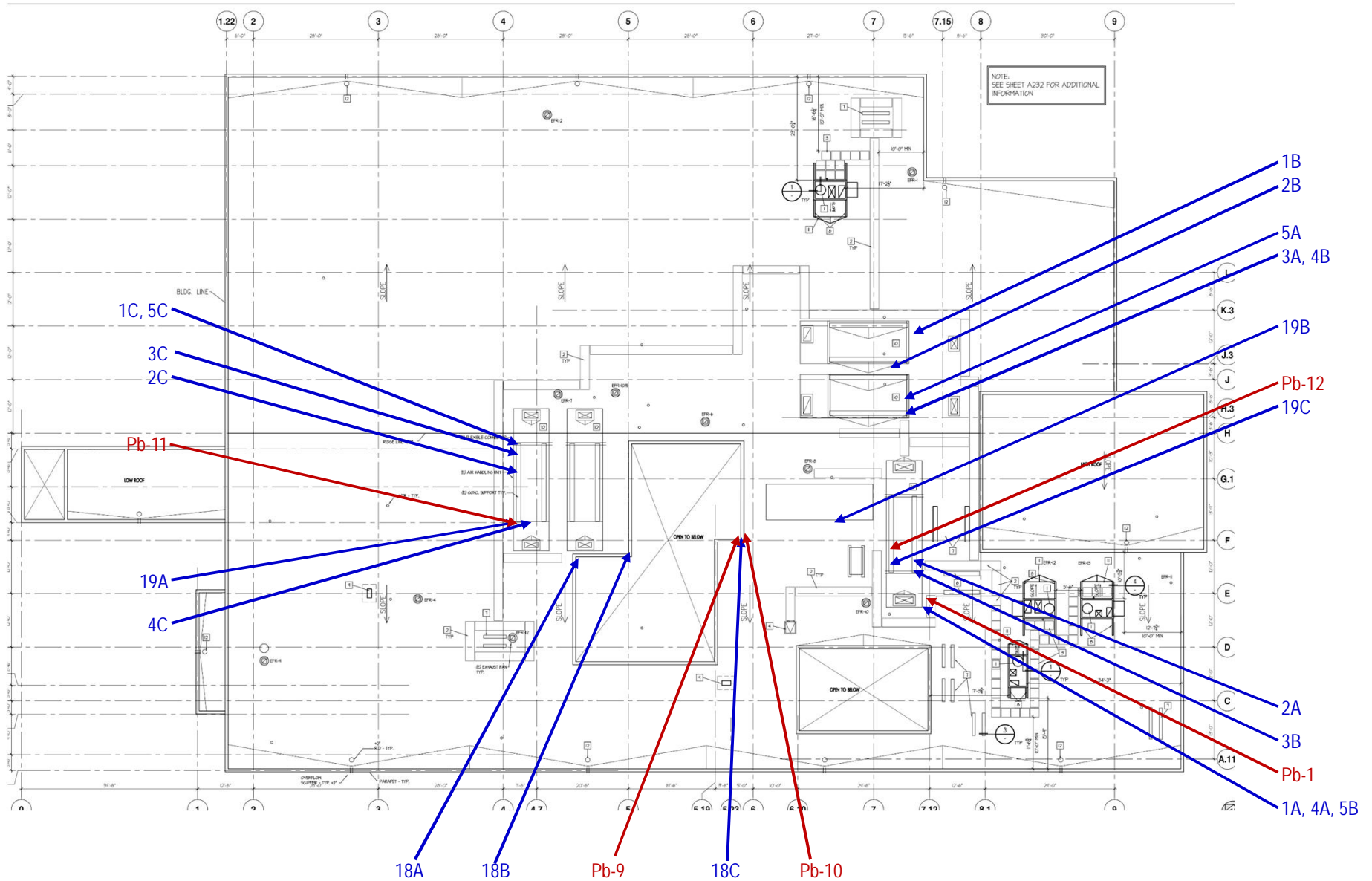
	Contra Costa College Applied Arts – HVAC Renovation Project	2600 Mission Bell Drive – 1 <sup>st</sup> Floor San Pablo, California	Drafted By: DW	Not to Scale
	SURVEY DATE: May 5 and June 15, 2020	PROJECT NO: R1197614	Checked By: KP	FIGURE: 1




N↑

	Contra Costa College Applied Arts – HVAC Renovation Project	2600 Mission Bell Drive – 2 <sup>nd</sup> Floor San Pablo, California	Drafted By: DW	Not to Scale
	SURVEY DATE: May 5 and June 15, 2020	PROJECT NO.: R1197614	Checked By: KP	FIGURE: 2





N ↑

	Contra Costa College Applied Arts – HVAC Renovation Project	2600 Mission Bell Drive - Roof San Pablo, California	Drafted By: DW	Not to Scale
	SURVEY DATE: May 5 and June 15, 2020	PROJECT NO: R1197614	Checked By: KP	FIGURE: 3

**APPENDIX E**

**EXISTING BUILDING SURVEY REPORT**

## SERVICES

Worker Health and Safety

OSHA Training and Compliance

Safety Audits

Ergonomics

Hazard Communication

IIPP and Specialized Programs

Asbestos and Lead Management

Regulated Materials Management

Industrial Hygiene

Indoor Air Quality

Mold & Moisture Consulting

Environmental Site Assessments

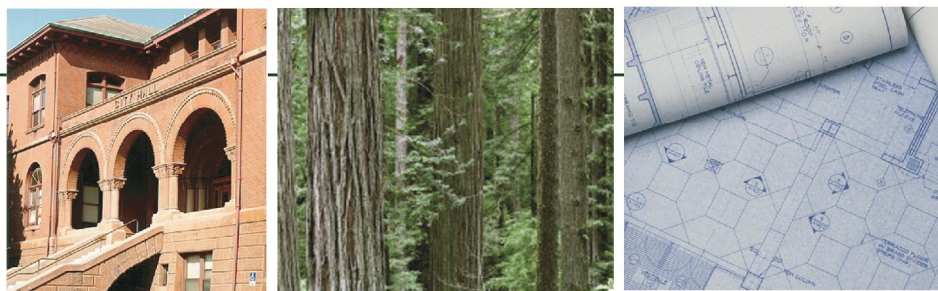
Phase I,II, III

Vapor Intrusion

Subsurface Investigation

Litigation Support

Laboratory Analyses



## Limited Hazardous Materials Survey Report

Applied Arts and Administrative (AA) Building  
Contra Costa College  
2600 Mission Bell Drive  
San Pablo, California

Project No: R1177058


March 12, 2017

Prepared for:

Ron Johnson  
Contra Costa Community College District  
500 Court Street  
Martinez, California

Prepared by:

RGA Environmental, Inc.  
1466 66<sup>th</sup> Street  
Emeryville, CA 94608

Report prepared by:  Remington Caldwell  
Senior Industrial Hygienist, CAC 97-2180

Report reviewed by:  Kenneth Pilgrim  
Department Manager, CAC 03-3503

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<b>2. Scope of Work.....</b>	<b>3</b>
<b>3. Methods and Sampling Strategy .....</b>	<b>3</b>
<b>4. Asbestos Results.....</b>	<b>5</b>
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<b>8. Recommendations to Implement Regulatory Requirements .....</b>	<b>9</b>
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## ***Appendices***

- 1. Laboratory Results and Chain of Custody - Asbestos**
- 2. Laboratory Results and Chain of Custody – Lead**
- 3. Survey Area and Sample Location Figures**
- 4. Inspector Certificates**

# Limited Hazardous Materials Survey Report

*Contra Costa College*

*Applied Arts and Administrative Building – C-4008*

*2600 Mission Bell Drive*

*San Pablo, California*

## 1. Executive Summary

The following is a report of the limited hazardous materials survey of the Applied Arts and Administrative building conducted by Remington Caldwell and John Alexander, California Certified Asbestos Consultants (CACs) and California Department of Public Health (CDPH) Inspector Assessors with RGA Environmental, A Terracon Company, (RGA). The survey was performed on February 17, 20, and 21, 2017 in the Applied Arts and Administrative building on the Contra Costa College Campus located at 2600 Mission Bell Drive in San Pablo, California.

The scope of the survey was limited to identification of potential asbestos containing materials (ACMs) and lead containing paint or materials that may be impacted by the planned C-4008 renovation project. The survey area was limited to areas depicted in drawing set A121 dated January 25, 2017 and provided by the District (see Figures 1 and 2 in Appendix 3).

During the survey, thirty-nine (39) homogenous suspect ACMs were identified. Three (3) of the homogeneous suspect ACMs tested positive for asbestos content.

Seven (7) painted finishes and bulk materials were sampled for potential lead content. Two (2) of the ceramic tiles sampled were reported above the laboratory detection limit for lead.

Table I summarizes the materials identified as ACMs. Table II summarizes the materials that were determined to be negative for asbestos content. Table III summarizes the lead concentrations of the materials sampled.

## **2. Scope of Work**

The scope of the survey was as follows:

- Inspect the survey area for the presence of suspect ACMs and lead-containing paint with the potential to be impacted by the planned renovation project. See Figure 1 & 2 for depiction of the survey area.
- Collect a representative number of samples of suspect ACMs following the National Emissions Standard for Hazardous Air Pollutants (NESHAPs) protocol for sample collection for a renovation survey. Analyze asbestos bulk samples using polarized light microscopy (PLM) in accordance with EPA's July 1993 method for the determination of asbestos in bulk building materials - EPA 600/R-93/116.
- Collect paint chip samples of the primary painted surfaces and suspect lead containing construction materials within the survey area suspected to be lead containing for purposes of compliance with California Department of Occupational Safety and Health (DOSH) Lead in Construction Standard. Bulk samples and paint chips were analyzed at an accredited laboratory by Flame Atomic Absorption (AA) for Total Lead reported in parts per million (ppm).
- Submit written report including analytical results, regulatory requirements, conclusions, and recommendations.

## **3. Methods and Sampling Strategy**

### **Visual Inspection**

Accessible materials were visually inspected in the survey area using the methods presented in the federal Asbestos Hazard Emergency Response Act (AHERA) regulations (40 CFR, Part 763) as a guideline. AHERA was originally only applicable to schools, however state and federal Occupational Safety and Health Administration (OSHA) and Asbestos School Hazard Abatement and Reauthorization Act (ASHARA) have adopted the AHERA sampling methodology for all buildings subject to demolition or renovation.

### **Bulk Sampling of Asbestos**

Bulk samples of all suspect ACM homogeneous materials were collected. A homogeneous material is defined as a surfacing material, thermal system insulation, or miscellaneous material that is uniform in color, texture and age of construction. Examples of homogeneous materials include:

- Pipe-insulation produced by the same manufacturer and installed during the same time period;
- Resilient flooring of identical color and pattern;
- Troweled on surfacing materials located in contiguous areas.



The survey area was visually inspected for the presence of suspect materials. As materials were identified, bulk samples were obtained with the aid of a coring device or other hand tool and placed into individual sampling bags. Each sample was given a discrete identification number and recorded on field notes as well as chain-of-custody forms. Refer to accompanying tables and appendices for details on material sample locations and results. Bulk samples were transported to EMLab P&K (EML) in South San Francisco, California.

### **Bulk Sampling of Suspect Lead Containing Materials**

Paint chip and/or suspected lead containing materials were collected using a hand scraper or chisel and were placed into individual plastic sampling containers. Each sample was provided a discrete sample number, which was recorded on a chain-of-custody form. Samples were transported to QuanTEM Laboratories (QuanTEM) in Oklahoma City, Oklahoma for analysis.

### **Bulk Sample Analysis - Asbestos**

EML is accredited under the National Institute of Standards and Technology's National Voluntary Laboratory Accreditation Program (NVLAP) for determination of asbestos fibers in bulk materials.

All samples were analyzed using polarized light microscopy (PLM) techniques in accordance with methodology approved by the U.S. Environmental Protection Agency (EPA). As set forth in the Code of Federal Regulations, 40 CFR Part 763, Appendix A to Subpart F, Section 1.2 and 1.7.2.4, the lower limit of reliability detection for asbestos using the PLM method is approximately one percent (1%) by volume. Cal-OSHA defines asbestos containing construction materials (ACCM) as those materials having asbestos content of greater than one tenth of one percent ( $>0.1\%$ ).

When None Detected (ND) appears in this report, it should be interpreted as meaning no asbestos was observed in the sample material above the reliable limit of detection for the PLM method.

Note: under EPA assessment criteria, if a single sample of a homogeneous material tests positive for asbestos, all homogeneous materials within that building are considered to be asbestos containing.

### **Bulk Sample Analysis – Lead**

All paint and bulk samples were analyzed for lead content using the Flame Atomic Absorption spectroscopy in accordance to EPA Method SW846-3050B-7000B. When “<” appears in the lead sample report, it should be interpreted as meaning below analytical detection limit.

#### 4. Asbestos Results

During the survey, thirty-nine (39) homogenous suspect ACMs were identified. Three (3) of the homogeneous suspect ACMs tested positive for asbestos content. All identified ACMs are listed below in Table I below.

**TABLE I**  
**ASBESTOS-CONTAINING MATERIALS**

Material Description	Material Location	Waste Category	Asbestos Type	Estimated Quantity
HA 3-Red Vinyl Sheet Flooring, Pebble Pattern, with Yellow Glue	2 <sup>nd</sup> Floor, Room 237, Kitchen Floor, Cooking Display Area	RACM	VSF:15% CH Glue: ND	300 sf
HA 4-1 <sup>st</sup> Layer: Red Vinyl Sheet Flooring (Solid Color) with Yellow Glue, and 2 <sup>nd</sup> Layer: Light Grey Vinyl Sheet Flooring with Yellow Glue	2 <sup>nd</sup> Floor, Room 237, Kitchen Floor, Food Preparation Area	RACM	Red VSF: ND Glue: ND Grey VSF: 15% CH Glue: ND	700 sf
HA 37-Cementitious Sink, Grey	2 <sup>nd</sup> Floor, Room 206, in Sink Cabinet	Cat. II	20% CH	5 sf

NA = Not Applicable, ND = None Detected, CH = Chrysotile, RACM = Regulated asbestos containing material (friable), Cat. I = Non-friable (note ACM must be reclassified as a RACM if rendered friable during removal), Cat. II = Category II Non-friable (note ACM must be reclassified as a RACM if rendered friable during removal), sf = square feet

The materials that were reported as negative for asbestos content are listed in Table II below.

**TABLE II**  
**NON-ASBESTOS-CONTAINING MATERIALS**

Material Description	Material Location(s)
HA 1 - 4" Cove Base, Brown with Glue, Yellow	2 <sup>nd</sup> Floor, Throughout Floor
HA 2 - Carpet Glue, Yellow with Floor Leveling Compound, White	2 <sup>nd</sup> Floor, Room 239, Dining Area
HA 5 - Drywall with Joint Compound, Smooth	2 <sup>nd</sup> Floor, Various Locations Throughout Floor 1 <sup>st</sup> Floor, Various Locations Throughout Floor
HA 6 -Wainscot Glue, Brown	2 <sup>nd</sup> Floor, Room 237, Kitchen Prep Area
HA 7 - Metal Wainscot Glue, Tan	2 <sup>nd</sup> Floor, Room 237, Kitchen Prep Area
HA 8 - 12" Vinyl Floor Tile, Red with Glue, Yellow	2 <sup>nd</sup> Floor, Room 237, Kitchen Office
HA 9 - 12" Vinyl Floor Tile, Red and Black with Glue, Yellow	2 <sup>nd</sup> Floor, Corridors, Room 203, and 226
HA 10 - Drywall Texture	2 <sup>nd</sup> Floor, Room 237, Back Office Hallways
HA 11 - 2'x4' Ceiling Tile, White, with Small Fissure and Pin Holes	2 <sup>nd</sup> Floor, Room 237, Back Office Hallways

Material Description	Material Location(s)
HA 12 - 1'x1' Ceiling tile, White with Glue, Brown and White	2 <sup>nd</sup> Floor, Room 237 and Room 206
HA 13 - 1'x1' Ceiling tile, White with Glue, Brown and White	1 <sup>st</sup> Floor, Room 117, Classroom and Hallways
HA 14 - 12" Vinyl Floor Tile, White with Glue, Yellow	1 <sup>st</sup> Floor, Room 117, Classroom and Hallways
HA 18 - 4" Cove Base, Black with Glue, Brown	1 <sup>st</sup> Floor, Various Rooms
HA 19 - 2'x4' Ceiling Tile, White with Small Holes and Pin Holes	1 <sup>st</sup> Floor, Room 113
HA 20 - Carpet Glue, Yellow	1 <sup>st</sup> Floor, Room 117, Offices Areas
HA 21 - 6" Cove Base, Black with Glue, Yellow and Brown Residue	1 <sup>st</sup> Floor, Various Rooms Throughout Building
HA 22 - Carpet Glue, Yellow	1 <sup>st</sup> Floor, Room 107
HA 24 - 12" Vinyl Floor Tile, Off-White with Mastic, Yellow	1 <sup>st</sup> Floor, Room 113 and Hallways
HA 25 - Carpet Glue, Dark Yellow with Floor Leveling Compound, White	1 <sup>st</sup> Floor, Room 111
HA 26 - Drywall Texture	1 <sup>st</sup> Floor, Room 117
HA 27 - 2"x2" Ceramic Floor Tile, Grey with Grout and Mortar	1 <sup>st</sup> Floor, Room 103, Floor system
HA 28 - 12" Vinyl Floor Tile, Light Grey with Glue, Yellow	1 <sup>st</sup> Floor, Room 103
HA 29 - 3"x6" Ceramic Tile, Red with Grout and Mortar	1 <sup>st</sup> Floor, Room 103, Wainscot
HA 30 - 3"x6" Ceramic Tile, Brown with Grout and Mortar	1 <sup>st</sup> Floor, Room 237, Janitor's Closet, Wainscot
HA 31 - 2"x2" Ceramic Tile, Grey with Grout and Mortar and Glue	2 <sup>nd</sup> Floor, Rooms 237, Storage Room/ Old Restroom Walls (Wainscot)
HA 32 - 3"x6" Ceramic Tile, Off-White with Grout and Mortar	2 <sup>nd</sup> Floor, Rooms 237, Corridor/Hallway Wall, Previous Sink Location
HA 33 - 12" Vinyl Floor tile, Tan with Glue, Yellow	2 <sup>nd</sup> Floor, Room 219, Back Storage Area
HA 34 - 12" Vinyl Floor tile, Green with Glue, Yellow	2 <sup>nd</sup> Floor, Room 219, Copy Room
HA 35 - Sink Insulation, Black	2 <sup>nd</sup> Floor, Room 206
HA 36 - Drywall Texture	2 <sup>nd</sup> Floor, Room 219
HA 38 - 2'x4' Ceiling Tile, White with Pin Holes and Round Holes	2 <sup>nd</sup> Floor, Room 206
HA 39 - 2'x4' Ceiling Tile, White with Large Fissure and Pin Holes	2 <sup>nd</sup> Floor, Room 206 and Corridor
HA 40 - 4" Cove Base, Brown with Glue, Brown	2 <sup>nd</sup> Floor, Throughout Floor
HA 41 - 12" Vinyl Floor Tile, White with Glue, Blue Streak, with Yellow	1 <sup>st</sup> Floor, Throughout Corridors/Hallways
HA 42 - 4" Cove Base, Grey with Glue, Yellow	1 <sup>st</sup> Floor, Throughout Corridors/Hallways

Material Description	Material Location(s)
HA 43 - Carpet Glue, Blue	2 <sup>nd</sup> Floor, Room 201, Under Carpet

## 5. Lead Results

Seven (7) painted finishes and bulk materials were sampled for potential lead content. Two (2) of the ceramic tiles sampled were reported above the laboratory detection limit for lead. Table III below summarizes the sampling locations and results for the materials.

**TABLE III**  
**LEAD SAMPLE RESULTS**

Sample Number	Description/Location of Sample	Results (ppm)
Pb-01	2" Grey Ceramic Floor Tile	<50.0
Pb-02	3" x 6" Red Ceramic Wainscot Tile	<50.0
Pb-03	Off-White Paint on Drywall in Classroom #117 (Throughout Floor)	<49.8
<b>Pb-04</b>	<b>3" x 6" Brown Ceramic Wainscot Tile in Janitors Closet</b>	<b>209</b>
Pb-05	2" Grey Ceramic Floor Tile in Room 237 Storage/Old Restroom	<49.0
<b>Pb-06</b>	<b>3" x 6" White Ceramic Wainscot Tile, Room 237, Wall of Hallway (Previously a Sink Area)</b>	<b>218</b>
Pb-07	Off-White Paint on Drywall, Room 203	<49.5

ppm = parts per million

## 7. Regulatory Requirements

### Asbestos

Building materials within the survey area contain asbestos in concentrations greater than one tenth of one percent (0.1%). Impacting materials containing greater than 0.1% asbestos either through repair, maintenance, renovation or demolition activities triggers numerous regulations enforced by such agencies as OSHA (worker protection) and EPA (environmental exposure, transportation and disposal).

Listed below are the regulations that apply if the materials are removed:

- Any individual who contracts to provide health and safety services relating to ACMs must be certified by Cal-OSHA as either a Certified Asbestos Consultant or a Site

Surveillance Technician. The activities they are certified to provide include: conducting asbestos surveys; writing work plans or specifications for abatement; monitoring the work of abatement contractors; collecting air samples; and determining if the work area is safe for re-occupancy by non-asbestos workers. Regulation: Cal-OSHA 8 CCR 1529 (q)(1).

- If more than 100 square feet of materials that contain greater than 0.1% asbestos will be abated, they must be abated by a Cal-OSHA registered asbestos abatement contractor. Regulation: Cal-OSHA 8 CCR 1529 (R).
- ACMs that are classified by OSHA as other/miscellaneous materials are present. Removal of these materials is considered a Class II activity according to Cal-OSHA regulations. Work practices and engineering controls for Class II work are specified in Cal-OSHA 8 CCR 1529 (g) (7-8).
- If more than 100 square feet or 100 linear feet of friable ACM will likely be removed, the abatement contractor must notify the Bay Area Air Quality Management District ten (10) days prior to removing the material. Regulation: BAAQMD Regulation 11, Rule 2.
- Friable ACMs greater than 1% asbestos must be manifested, transported, and disposed of as hazardous waste in accordance with the Department of Toxic and Substances Control (DTSC), a division of Cal-EPA. DTSC regulates disposal of asbestos waste. DTSC issues U.S. EPA hazardous waste generator identification numbers.

### **Lead-Containing Materials**

Lead-containing ceramic tiles were identified during the survey. Impacting lead-containing materials either through renovation or demolition activities triggers numerous regulations enforced by such agencies as OSHA (worker protection), EPA (environmental exposure, transportation and disposal), and Department of Public Health (DPH).

Listed below are the regulations that apply if the lead containing materials are impacted during renovation activities:

- Federal OSHA as well as California OSHA regulates all worker exposure during construction activities that impact lead-containing materials. California OSHA enforces the Lead in Construction Standard in Title 8 CCR 1532.1. The scope covers construction work where employees may be exposed to lead during such activities as demolition, removal, surface preparation for re-painting, renovation, clean-up and routine maintenance. The OSHA specified method of compliance includes respiratory protection, protective clothing and equipment, housekeeping, hygiene facilities, medical surveillance, and training, among other requirements.

- California OSHA requires Department of Public Health Lead-Related Construction training if any lead related construction work in public buildings will exceed OSHA's permissible exposure limit (PEL) for lead.
- Disposal of all lead-containing paint and bulk materials is regulated at concentrations at or exceeding 1,000 ppm as stated in 40 Code of Federal Regulations (CFR) Part 263 - Land Disposal Regulations and Title 22, Division 4 Environmental Health of the California Administrative Code. Lead containing materials that exceed 50 ppm must be additionally analyzed to determine possible waste disposal restrictions with respect to lead. However, lead related work at any lead concentration is regulated under the OSHA statutes.

## **8. Recommendations to Implement Regulatory Requirements**

### **Asbestos**

- Develop a performance abatement specification or work plan for the removal or impact of the ACMs identified in the survey that will likely be disturbed by the planned renovation project. The purpose of an abatement specification is to clearly define the scope of work for more competitive and accurate bidding as well as to reduce the number of costly delays and change orders during the project.
- Retain a Certified Asbestos Consultant or Site Surveillance Technician to provide on-site construction supervision of the asbestos abatement contractor to ensure utilization of proper work practices as stated in the work plan or specification. The Consultant also ensures that all local, state and federal regulations are followed and that the project remains on schedule. The on-site Consultant generates documentation of contractor work practices and training, and asbestos air sampling results. The on-site Consultant also ensures that all asbestos materials are removed by the abatement contractor and properly manifested.
- Request the Asbestos Consultant to collect a sufficient number of air samples on a daily basis to validate that the abatement contractor is not causing any releases of airborne asbestos fibers outside their work area.
- Request the Asbestos Consultant to visually review the work of the abatement contractor to verify that all the ACMs are abated. If the work areas pass the visual clearance, then final air clearance samples are collected to ensure that the area is safe for re-occupancy, or unregulated work.
- Request a final written report outlining all activities that transpired throughout the course of the abatement project.

### **Lead-Containing Paint**

Lead containing debris that will be landfilled should be classified as hazardous waste if lead waste concentrations exceed either the total lead concentration or soluble lead concentration regulatory limits.

We recommend the following actions prior to the start of renovation:

- Use only trained workers for disturbance of building components containing lead. All demolition work should be performed in accordance with the OSHA Lead in Construction Standard, Title 8 CCR 1532.1. Removal of lead-based paint should be performed by Department of Public Health Lead Related Construction trained workers.
- Worker exposure, environmental monitoring, and proper engineering controls should be implemented throughout the lead related work.
- Contractor should adhere to OSHA and other applicable state and local regulations for worker protection, hazard communications, work practices, engineering controls and proper waste disposal.
- Proper waste stream categorization is required for the disposal of lead-containing materials such as paint debris, ceramic tile, and painted building components (intact) in accordance with the Department of Toxic Substance Control (DTSC). The disposal of lead-containing materials shall be coordinated with the landfill.

## **9. Limitations**

RGA warrants that the findings contained herein have been prepared in general accordance with accepted professional practices as applied by similar professionals in the community at the time of its preparation. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in this report.

The field and laboratory results reported herein are considered sufficient in detail and scope to determine the presence of ACMs and lead-containing paint identified in this report. The testing results represent a limited survey. The survey was limited to areas and materials in the building that will likely be impacted by the planned project. Other suspect asbestos and lead containing materials exist in the building that were not included in the scope of this survey. Also, note that this is a survey report and not an abatement specification. This document is not appropriate for competitive bidding or for use as an abatement specification.

## **Appendix 1**

### Laboratory Results and Chain of Custody Forms - Asbestos





Report for:

**Mr. Kenneth Pilgrim**  
**RGA Environmental, Inc.**  
1466 66th Street  
Emeryville, CA 94608

---

Regarding: Project: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.  
EML ID: 1682356

Approved by:

Dates of Analysis:  
Asbestos PLM: 02-27-2017

Approved Signatory  
Gregorio Delgado

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

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All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Total Samples Submitted:** 115**Total Samples Analyzed:** 115**Total Samples with Layer Asbestos Content > 1%:** 7**Location: 1A, 4" brown covebase with glue-white and brown-2nd floor-239-dining room**

Lab ID-Version‡: 7837569-1

Sample Layers	Asbestos Content
Black Baseboard	ND
Cream Glue with Brown Rust	ND
White Texture with Multilayered Paint	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 1B, 4" brown covebase with glue-white and brown-2nd floor-237-kitchen-office**

Lab ID-Version‡: 7837568-1

Sample Layers	Asbestos Content
Brown Baseboard	ND
Dark Brown Glue	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 1C, 4" brown covebase with glue-white and brown-2nd floor-room 203**

Lab ID-Version‡: 7837569-1

Sample Layers	Asbestos Content
Brown Baseboard	ND
Dark Brown Glue with Tan Wood	ND
<b>Composite Non-Asbestos Content:</b>	2% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 2A, Carpet glue with leveling compound-2nd floor-239 dining room**

Lab ID-Version‡: 7837570-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Off-White Leveling Compound	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K 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.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 2B, Carpet glue with leveling compound-2nd floor-239 dining room**

Lab ID-Version‡: 7837571-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Off-White Leveling Compound	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 2C, Carpet glue with leveling compound-2nd floor-203 dining room-room 203-over 12" red**

Lab ID-Version‡: 7837572-1

Sample Layers	Asbestos Content
Yellow Glue	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Location: 3A, Red VSF-pebble pattern-with yellow-2nd floor-237-coffee area**

Lab ID-Version‡: 7837573-1

Sample Layers	Asbestos Content
Red Sheet Flooring with Fibrous Backing	15% Chrysotile
Yellow Glue	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 3B, Red VSF-pebble pattern-with yellow-2nd floor-237-cooking display area**

Lab ID-Version‡: 7837574-1

Sample Layers	Asbestos Content
Red Sheet Flooring with Fibrous Backing	15% Chrysotile
Yellow Glue	ND
Off-White Leveling Compound	ND
<b>Sample Composite Homogeneity:</b>	Poor

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 3C, Red VSF-pebble pattern-with yellow-2nd floor-237-cooking display area**

Lab ID-Version‡: 7837575-1

Sample Layers	Asbestos Content
Red Sheet Flooring with Fibrous Backing	15% Chrysotile
Yellow Glue	ND
Off-White Leveling Compound	ND
<b>Sample Composite Homogeneity:</b> Poor	

**Location: 4A, Red VSF solid color with yellow glue-2nd floor-237-prep area-front**

Lab ID-Version‡: 7837576-1

Sample Layers	Asbestos Content
Red Sheet Flooring with Black Dots	ND
Yellow Glue	ND
Off-White Leveling Compound	ND
<b>Composite Non-Asbestos Content:</b>	2% Glass Fibers 2% Synthetic Fibers
<b>Sample Composite Homogeneity:</b> Poor	

**Location: 4B, Red VSF solid color with yellow glue-2nd floor-237-prep area-back**

Lab ID-Version‡: 7837577-1

Sample Layers	Asbestos Content
Red Sheet Flooring with Black Dots	ND
Yellow Glue	ND
Off-White Leveling Compound	ND
<b>Composite Non-Asbestos Content:</b>	2% Glass Fibers 2% Synthetic Fibers
<b>Sample Composite Homogeneity:</b> Poor	

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 4C, Red VSF solid color with yellow glue-2nd floor-237-prep area-back**

Lab ID-Version‡: 7837578-1

Sample Layers	Asbestos Content
Red Sheet Flooring with Black Dots	ND
Yellow Glue	ND
Light Gray Sheet Flooring Backing	15% Chrysotile
Yellow Glue	ND
Off-White Leveling Compound	ND
<b>Composite Non-Asbestos Content:</b>	2% Glass Fibers 2% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Poor

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 5A, Drywall/joint compound-2nd floor-239-dining area-corner**

Lab ID-Version‡: 7837579-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
White Joint Compound	ND
Cream Tape	ND
White Texture with Multilayered Paint	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose < 1% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 5B, Drywall/joint compound-2nd floor-219D-storage**

Lab ID-Version‡: 7837580-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
White Joint Compound	ND
Cream Tape	ND
White Texture with Multilayered Paint	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose < 1% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 5C, Drywall/joint compound-2nd floor-206A-storage room**

Lab ID-Version‡: 7837581-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
White Joint Compound	ND
Cream Tape	ND
White Texture with Cream Paint	ND
Dark Brown Glue	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose < 1% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

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Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 6A, Wainscot glue brown-residual-2nd floor-#237-kitchen prep-wall-east wall**

Lab ID-Version‡: 7837582-1

Sample Layers	Asbestos Content
Brown Glue	ND
Cream Paint with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

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C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

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Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 6B, Wainscot glue brown-residual-2nd floor-#237-kitchen prep-wall-east wall**

Lab ID-Version‡: 7837583-1

Sample Layers	Asbestos Content
Brown Glue	ND
Cream Paint with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 6C, Wainscot glue brown-residual-2nd floor-#237-kitchen prep-wall-east wall**

Lab ID-Version‡: 7837584-1

Sample Layers	Asbestos Content
Brown Glue	ND
White Texture with Cream Paint and Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 7A, Metal wainscot glue-in-2nd floor-#237-kitchen prep**

Lab ID-Version‡: 7837585-1

Sample Layers	Asbestos Content
Tan Glue	ND
Multicolored Paint Layers with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 7B, Metal wainscot glue-in-2nd floor-#237-kitchen prep**

Lab ID-Version‡: 7837586-1

Sample Layers	Asbestos Content
Tan Glue	ND
Multicolored Paint Layers with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

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C/O: Mr. Kenneth Pilgrim

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Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 7C, Metal wainscot glue-in-2nd floor-#237-kitchen prep**

Lab ID-Version‡: 7837587-1

Sample Layers	Asbestos Content
Tan Glue	ND
Multicolored Paint Layers with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 8A, 12" red VFT and yellow glue-2nd floor-237-kitchen office**

Lab ID-Version‡: 7837588-1

Sample Layers	Asbestos Content
Red Floor Tile	ND
Yellow Glue with Off-White Leveling Compound	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 8B, 12" red VFT and yellow glue-2nd floor-237-kitchen office**

Lab ID-Version‡: 7837589-1

Sample Layers	Asbestos Content
Red Floor Tile	ND
Yellow Glue with Off-White Leveling Compound	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 8C, 12" red VFT and yellow glue-2nd floor-237-kitchen office**

Lab ID-Version‡: 7837590-1

Sample Layers	Asbestos Content
Red Floor Tile	ND
Yellow Glue with Off-White Leveling Compound	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

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Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 9A, 12" red with black smooth and yellow glue at help desk-2nd floor**

Lab ID-Version‡: 7837591-1

Sample Layers	Asbestos Content
Red Floor Tile with Black Specks	ND
Yellow Glue	ND
Off-White Leveling Compound	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 9B, 12" red with black smooth and yellow glue at help desk-2nd floor-room 203**

Lab ID-Version‡: 7837592-1

Sample Layers	Asbestos Content
Yellow Glue with Fibrous Material	ND
Red Floor Tile with Black Specks	ND
Yellow Glue with Off-White Leveling Compound	ND
<b>Composite Non-Asbestos Content:</b>	3% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 9C, 12" red with black smooth and yellow glue at help desk-2nd floor-room 226**

Lab ID-Version‡: 7837593-1

Sample Layers	Asbestos Content
Red Floor Tile with Black Specks	ND
Yellow Glue	ND
Off-White Leveling Compound	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 10A, Drywall texture-2nd floor #237-back office area-hallways**

Lab ID-Version‡: 7837594-1

Sample Layers	Asbestos Content
White Texture with Off-White Paint	ND
<b>Sample Composite Homogeneity:</b>	Moderate

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Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 10B, Drywall texture-2nd floor #237-back office area-hallways**

Lab ID-Version‡: 7837595-1

Sample Layers	Asbestos Content
White Texture with Yellow Paint	ND
White Texture with Cream Paint	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 10C, Drywall texture-2nd floor #237-back office area-hallways**

Lab ID-Version‡: 7837596-1

Sample Layers	Asbestos Content
White Texture with Cream Paint	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 11A, 2'x4' white ceiling tiles-2nd floor-#237-office/hall-round hole and pin hole**

Lab ID-Version‡: 7837597-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	35% Glass Fibers 30% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 11B, 2'x4' white ceiling tiles-2nd floor-#237-office/hall-pin hole small fissure**

Lab ID-Version‡: 7837598-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	40% Cellulose 25% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

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C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 11C, 2'x4' white ceiling tiles-2nd floor-#237-office/hall-fissure-large and pin hole**

Lab ID-Version‡: 7837599-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	35% Glass Fibers 30% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 12A, 1'x1' -white ceiling tile with brown and white glue-2nd floor-#237-restroom-near light**

Lab ID-Version‡: 7837600-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Brown Fibrous Material	ND
Brown Glue	ND
Off-White Glue	ND
<b>Composite Non-Asbestos Content:</b>	60% Glass Fibers 10% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 12B, 1'x1' -white ceiling tile with brown and white glue-2nd floor-#237-restroom-near light**

Lab ID-Version‡: 7837601-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Brown Fibrous Material	ND
Brown Glue	ND
Off-White Glue	ND
<b>Composite Non-Asbestos Content:</b>	60% Glass Fibers 10% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

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Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 12C, 1'x1' -white ceiling tile with brown and white glue-2nd floor-#237-  
restroom-near HVAC vent**

Lab ID-Version‡: 7837602-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Brown Glue	ND
<b>Composite Non-Asbestos Content:</b>	40% Glass Fibers 15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

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Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 13A, 1'x1' white ceiling tile with-R117-117-hallway of 117**

Lab ID-Version‡: 7837603-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Brown Glue	ND
<b>Composite Non-Asbestos Content:</b>	40% Glass Fibers 15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 13B, 1'x1' white ceiling tile with-R117-117-hallway of 117**

Lab ID-Version‡: 7837604-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Brown Glue	ND
Off-White Drywall with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose 10% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 13C, 1'x1' white ceiling tile with-R117-117G-classroom**

Lab ID-Version‡: 7837605-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Brown Glue	ND
<b>Composite Non-Asbestos Content:</b>	40% Glass Fibers 15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 14A, 12" white VFT and glue-yellow-R117G**

Lab ID-Version‡: 7837606-1

Sample Layers	Asbestos Content
White Floor Tile with Red Paint	ND
Yellow Glue	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

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**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 14B, 12" white VFT and glue-yellow-R117G**

Lab ID-Version‡: 7837607-1

Sample Layers	Asbestos Content
White Floor Tile	ND
Yellow Glue	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 14C, 12" white VFT and glue-yellow-hallway to 117G**

Lab ID-Version‡: 7837608-1

Sample Layers	Asbestos Content
White Caulk	ND
White Floor Tile	ND
Yellow Glue	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 5D, Drywall/joint-R117G-NW corner**

Lab ID-Version‡: 7837612-1

Sample Layers	Asbestos Content
White Texture with Multilayered Paint	ND
Cream Tape	ND
White Joint Compound	ND
Brown Drywall with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose < 1% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

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Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 5E, Drywall/joint-room 103-wall at sink/cabinet**

Lab ID-Version‡: 7837613-1

Sample Layers	Asbestos Content
White Texture with Multilayered Paint	ND
Cream Tape	ND
White Joint Compound	ND
Cream Tape	ND
White Joint Compound	ND
White Drywall with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	20% Cellulose < 1% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

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Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 5F, Drywall/joint-1st floor-corridor north**

Lab ID-Version‡: 7837614-1

Sample Layers	Asbestos Content
White Texture with White Paint	ND
Cream Tape	ND
White Joint Compound	ND
White Drywall with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose < 1% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 5G, Drywall-2nd floor-corridor adj. room 201**

Lab ID-Version‡: 7837615-1

Sample Layers	Asbestos Content
White Texture with White Paint	ND
Cream Tape	ND
White Joint Compound	ND
White Drywall with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose < 1% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 18A, 4" black base and brown glue-room 117H**

Lab ID-Version‡: 7837619-1

Sample Layers	Asbestos Content
Black Baseboard	ND
Dark Brown Glue	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 18B, 4" black base and brown glue-room 113C**

Lab ID-Version‡: 7837620-1

Sample Layers	Asbestos Content
Black Baseboard	ND
Dark Brown Glue	ND
Cream Glue	ND
<b>Sample Composite Homogeneity:</b>	Poor

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Re: R1177058; AA Building, 2600 Mission Bell Dr.,

Date of Report: 02-27-2017

San Pablo, CA.

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 18C, 4" black base and brown glue-room 109**

Lab ID-Version‡: 7837621-1

Sample Layers	Asbestos Content
Black Baseboard	ND
Cream Glue	ND
Brown Fibrous Material with Orange Paint	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 19A, 2x4 white ceiling tile with small hole and pin hole-room 113**

Lab ID-Version‡: 7837622-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	60% Cellulose < 1% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 19B, 2x4 white ceiling tile with small hole and pin hole-room 113**

Lab ID-Version‡: 7837623-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	60% Cellulose < 1% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 19C, 2x4 white ceiling tile with small hole and pin hole-room 113**

Lab ID-Version‡: 7837624-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	60% Cellulose < 1% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

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Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 20A, Carpet glue-R117-hallway-east side**

Lab ID-Version‡: 7837625-1

Sample Layers	Asbestos Content
Yellow Glue	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Location: 20B, Carpet glue-R117-hallway-west side**

Lab ID-Version‡: 7837626-1

Sample Layers	Asbestos Content
Black/White Carpet Fragments	ND
Yellow Glue	ND
Gray Leveling Compound	ND
<b>Composite Non-Asbestos Content:</b>	5% Synthetic Fibers < 1% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 20C, Carpet glue-R117-hallway-central**

Lab ID-Version‡: 7837627-1

Sample Layers	Asbestos Content
Yellow Glue	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Location: 21B, 6" black covebase and yellow glue and brown residual mastic-room 107**

Lab ID-Version‡: 7837629-1

Sample Layers	Asbestos Content
Black Baseboard	ND
Dark Brown Mastic	ND
White Texture with Red Paint	ND
Brown Fibrous Material	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

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Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 21C, 6" black covebase and yellow glue and brown residual mastic-hall 117**

Lab ID-Version‡: 7837630-1

Sample Layers	Asbestos Content
Black Baseboard	ND
Yellow Glue	ND
Brown Mastic	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 22A, Carpet glue-yellow-room 107/109A**

Lab ID-Version‡: 7837631-1

Sample Layers	Asbestos Content
Yellow Glue	ND
White Non-Fibrous Material	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 22B, Carpet glue-yellow-room 107/109A**

Lab ID-Version‡: 7837632-1

Sample Layers	Asbestos Content
Multicolored Carpet	ND
Yellow Glue	ND
<b>Composite Non-Asbestos Content:</b>	80% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 22C, Carpet glue-yellow-room 107/109A**

Lab ID-Version‡: 7837633-1

Sample Layers	Asbestos Content
Yellow Glue	ND
White Non-Fibrous Material with Red Paint	ND
Gray Cementitious Material	ND
<b>Sample Composite Homogeneity:</b>	Poor

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Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 24A, 12" tan VFT and yellow mastic-room 113C-north side**

Lab ID-Version‡: 7837634-1

Sample Layers	Asbestos Content
Beige Floor Tile	ND
Yellow Mastic	ND
Gray Compound	ND
<b>Composite Non-Asbestos Content:</b>	3% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 24B, 12" tan VFT and yellow mastic-room 113C-east side**

Lab ID-Version‡: 7837635-1

Sample Layers	Asbestos Content
Beige Floor Tile	ND
Yellow Mastic	ND
Gray Cementitious Material	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 24C, 12" tan VFT and yellow mastic-hall wall at room 111**

Lab ID-Version‡: 7837636-1

Sample Layers	Asbestos Content
Beige Floor Tile	ND
Yellow Mastic	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 25A, Carpet glue-DK. yellow with leveling compound-white-R111**

Lab ID-Version‡: 7837637-1

Sample Layers	Asbestos Content
Yellow Glue	ND
White Leveling Compound	ND
<b>Sample Composite Homogeneity:</b>	Moderate

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**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 25B, Carpet glue-DK. yellow with leveling compound-white-R111**

Lab ID-Version‡: 7837638-1

Sample Layers	Asbestos Content
Cream Glue	ND
Yellow Glue	ND
White Leveling Compound	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 25C, Carpet glue-DK. yellow with leveling compound-white-R111**

Lab ID-Version‡: 7837639-1

Sample Layers	Asbestos Content
Yellow Glue	ND
White Leveling Compound	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 26A, Drywall texture-room 117G-east wall**

Lab ID-Version‡: 7837640-1

Sample Layers	Asbestos Content
White Texture with Multilayered Paint	ND
Cream Glue	ND
White Drywall with Brown/Green Paper	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 26B, Drywall texture-room 117G-south wall**

Lab ID-Version‡: 7837641-1

Sample Layers	Asbestos Content
White Texture with Multilayered Paint	ND
Cream Glue	ND
White Drywall with Brown/Green Paper	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

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**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 26C, Drywall texture-room 117G-west wall**

Lab ID-Version‡: 7837642-1

Sample Layers	Asbestos Content
White Texture with Multilayered Paint	ND
White Drywall with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 26D, Drywall texture-room 117G-north wall**

Lab ID-Version‡: 7837643-1

Sample Layers	Asbestos Content
White Texture with Multilayered Paint	ND
White Drywall with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 26E, Drywall texture-room 117G-east wall**

Lab ID-Version‡: 7837644-1

Sample Layers	Asbestos Content
White Texture with Off-White Paint	ND
White Texture with White Paint	ND
White Texture with Multilayered Paint	ND
Cream Glue	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 27A, 2"x2" grey ceramic tile-grout and mortar-R103-floor**

Lab ID-Version‡: 7837645-1

Sample Layers	Asbestos Content
Dark Brown Grout	ND
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b>	Moderate

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**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 27B, 2"x2" grey ceramic tile-grout and mortar-R103-floor**

Lab ID-Version‡: 7837646-1

Sample Layers	Asbestos Content
Gray Ceramic Tile	ND
Dark Brown Grout	ND
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 27C, 2"x2" grey ceramic tile-grout and mortar-R103-floor**

Lab ID-Version‡: 7837647-1

Sample Layers	Asbestos Content
Dark Brown Grout	ND
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 29A, 3"x6" red ceramic tile-wainscot-gray-R103-wainscot at sink**

Lab ID-Version‡: 7837648-1

Sample Layers	Asbestos Content
Dark Brown Grout	ND
Red Ceramic Tile	ND
Yellow Mastic	ND
Brown Drywall with Brown/Green Paper	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose < 1% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 29B, 3"x6" red ceramic tile-wainscot-gray-R103-wainscot at sink**

Lab ID-Version‡: 7837649-1

Sample Layers	Asbestos Content
Dark Brown Grout	ND
Yellow Mastic	ND
Brown Drywall with Brown/Green Paper	ND
<b>Composite Non-Asbestos Content:</b>	25% Cellulose < 1% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

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**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 29C, 3"x6" red ceramic tile-wainscot-gray-R103-wainscot at sink**

Lab ID-Version‡: 7837650-1

Sample Layers	Asbestos Content
Dark Brown Grout	ND
Yellow Mastic	ND
Brown Drywall with Brown/Green Paper	ND
<b>Composite Non-Asbestos Content:</b>	25% Cellulose < 1% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 28A, 12" light grey tile with yellow-R103-1st floor-floor**

Lab ID-Version‡: 7837651-1

Sample Layers	Asbestos Content
Light Gray Floor Tile	ND
Yellow Mastic	ND
Gray Cementitious Material	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 28B, 12" light grey tile with yellow-R103-1st floor-floor**

Lab ID-Version‡: 7837652-1

Sample Layers	Asbestos Content
Light Gray Floor Tile	ND
Yellow Mastic	ND
Gray Cementitious Material	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 28C, 12" light grey tile with yellow-R103-1st floor-floor**

Lab ID-Version‡: 7837653-1

Sample Layers	Asbestos Content
Light Gray Floor Tile	ND
Yellow Mastic	ND
Dark Brown Mastic	ND
Gray Cementitious Material	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

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Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 30A, 3"x6" brown ceramic tile-grout and mortar-2nd floor-237-janitor closet**

Lab ID-Version‡: 7837654-1

Sample Layers	Asbestos Content
Dark Brown Grout	ND
Light Brown Ceramic Tile	ND
Yellow Mastic	ND
Brown Fibrous Material	ND
<b>Composite Non-Asbestos Content:</b>	2% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 30B, 3"x6" brown ceramic tile-grout and mortar-2nd floor-237-janitor closet**

Lab ID-Version‡: 7837655-1

Sample Layers	Asbestos Content
Dark Brown Grout	ND
Light Brown Ceramic Tile	ND
Yellow Mastic	ND
Off-White Compound	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 30C, 3"x6" brown ceramic tile-grout and mortar-2nd floor-237-janitor closet**

Lab ID-Version‡: 7837656-1

Sample Layers	Asbestos Content
Dark Brown Grout	ND
Light Brown Ceramic Tile	ND
Yellow Mastic	ND
White Compound	ND
Brown Fibrous Material	ND
<b>Composite Non-Asbestos Content:</b>	2% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

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**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 31A, 2"x2" grey ceramic tile grout and mortar glue-2nd floor-restroom-237B**

Lab ID-Version‡: 7837657-1

Sample Layers	Asbestos Content
Dark Brown Grout	ND
Gray Ceramic Tile	ND
Gray Thinset	ND
<b>Sample Composite Homogeneity:</b> Poor	

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**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 31B, 2"x2" grey ceramic tile grout and mortar glue-2nd floor-restroom-237B**

Lab ID-Version‡: 7837658-1

Sample Layers	Asbestos Content
Dark Brown Grout	ND
Gray Ceramic Tile	ND
Yellow Glue	ND
Gray Thinset	ND
<b>Sample Composite Homogeneity:</b> Poor	

**Location: 31C, 2"x2" grey ceramic tile grout and mortar glue-2nd floor-restroom-237C**

Lab ID-Version‡: 7837659-1

Sample Layers	Asbestos Content
Dark Brown Grout	ND
Gray Ceramic Tile	ND
Yellow Glue	ND
White Fibrous Material	ND
Gray Thinset	ND
<b>Composite Non-Asbestos Content:</b> 2% Cellulose	
<b>Sample Composite Homogeneity:</b> Poor	

**Location: 32A, 3"x6" off white-ceramic grout and mortar-237-corridor at office-previous sink location**

Lab ID-Version‡: 7837660-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Dark Brown Mortar	ND
Beige Ceramic Tile	ND
<b>Sample Composite Homogeneity:</b> Good	

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Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 32B, 3"x6" off white-ceramic grouth and mortar-237-corridor at office-previous sink location**

Lab ID-Version‡: 7837661-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Dark Brown Mortar	ND
Beige Ceramic Tile	ND
<b>Sample Composite Homogeneity:</b> Good	

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Date of Report: 02-27-2017

San Pablo, CA.

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 32C, 3"x6" off white-ceramic grouth and mortar-237-corridor at office-previous sink location**

Lab ID-Version‡: 7837662-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Dark Brown Mortar	ND
Beige Ceramic Tile	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 33A, 12" tan VFT-back storage area-tile floor glue-219B-back storage area-2 layers**

Lab ID-Version‡: 7837663-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Beige Floor Tile	ND
Light Brown Floor Tile	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 33B, 12" tan VFT-back storage area-tile floor glue-219B-back storage area-2 layers**

Lab ID-Version‡: 7837664-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Beige Floor Tile	ND
Light Brown Floor Tile	ND
<b>Sample Composite Homogeneity:</b> Good	

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**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 33C, 12" tan VFT-back storage area-tile floor glue-219B-back storage area-2 layers**

Lab ID-Version‡: 7837665-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Beige Floor Tile	ND
Light Brown Floor Tile	ND
<b>Sample Composite Homogeneity:</b> Good	

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Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 34A, 12" green VFT and yellow glue-219A-classroom**

Lab ID-Version‡: 7837666-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Green Floor Tile	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 34B, 12" green VFT and yellow glue-206A-classroom**

Lab ID-Version‡: 7837667-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Green Floor Tile	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 34C, 12" green VFT and yellow glue-206A-corridor at room 203**

Lab ID-Version‡: 7837668-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Green Floor Tile	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 35A, Sink insulation-black-206A-open space**

Lab ID-Version‡: 7837669-1

Sample Layers	Asbestos Content
Black Sink Undercoating	ND
<b>Composite Non-Asbestos Content:</b>	10% Polyethylene
<b>Sample Composite Homogeneity:</b> Good	

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‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 35B, Sink insulation-black-206A-open space**

Lab ID-Version‡: 7837670-1

Sample Layers	Asbestos Content
Black Sink Undercoating	ND
<b>Composite Non-Asbestos Content:</b>	10% Polyethylene
<b>Sample Composite Homogeneity:</b>	Good

**Location: 35C, Sink insulation-black-206A-open space**

Lab ID-Version‡: 7837671-1

Sample Layers	Asbestos Content
Black Sink Undercoating	ND
<b>Composite Non-Asbestos Content:</b>	10% Polyethylene
<b>Sample Composite Homogeneity:</b>	Good

**Location: 36A, Drywall texture-room 219-classroom 219A**

Lab ID-Version‡: 7837672-1

Sample Layers	Asbestos Content
White Texture with Paint	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 36B, Drywall texture-room 219-classroom 219A**

Lab ID-Version‡: 7837673-1

Sample Layers	Asbestos Content
White Texture with Paint	ND
<b>Sample Composite Homogeneity:</b>	Good

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Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr.,

Date of Report: 02-27-2017

San Pablo, CA.

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 36C, Drywall texture-room 219-hallway 219F**

Lab ID-Version‡: 7837674-1

Sample Layers	Asbestos Content
White Texture with Paint	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 36D, Drywall texture-room 219-office 219E**

Lab ID-Version‡: 7837675-1

Sample Layers	Asbestos Content
White Texture with Paint	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 36E, Drywall texture-room 219-office 219E**

Lab ID-Version‡: 7837676-1

Sample Layers	Asbestos Content
White Texture with Paint	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 37A, Transite sink insulation-black-room 206- sink**

Lab ID-Version‡: 7837677-1

Sample Layers	Asbestos Content
Gray Transite	20% Chrysotile
<b>Sample Composite Homogeneity:</b>	Good

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Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 37B, Transite sink insulation-black-room 206- sink**

Lab ID-Version‡: 7837678-1

Sample Layers	Asbestos Content
Gray Transite	20% Chrysotile
<b>Sample Composite Homogeneity:</b> Good	

**Location: 37C, Transite sink insulation-black-room 206- sink**

Lab ID-Version‡: 7837679-1

Sample Layers	Asbestos Content
Gray Transite	20% Chrysotile
<b>Sample Composite Homogeneity:</b> Good	

**Location: 38A, 2'x4' ceiling tile-1/4 hole and pin hole-room 206-206B**

Lab ID-Version‡: 7837680-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	95% Cellulose
<b>Sample Composite Homogeneity:</b> Good	

**Location: 38B, 2'x4' ceiling tile-1/4 hole and pin hole-room 206-206A**

Lab ID-Version‡: 7837681-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	95% Cellulose
<b>Sample Composite Homogeneity:</b> Good	

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Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 38C, 2'x4' ceiling tile-1/4 hole and pin hole-room 206-20A**

Lab ID-Version‡: 7837682-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	95% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

**Location: 39A, 2'x4' ceiling tile-large fissure and pin hole-room 206-206**

Lab ID-Version‡: 7837683-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	95% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

**Location: 39B, 2'x4' ceiling tile-large fissure and pin hole-room 206-206B**

Lab ID-Version‡: 7837684-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	95% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

**Location: 39C, 2'x4' ceiling tile-large fissure and pin hole-room 206-corridor**

Lab ID-Version‡: 7837685-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	95% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

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Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-23-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 02-27-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 40A, 4" brown covebase with brown glue-room 206A**

Lab ID-Version‡: 7837686-1

Sample Layers	Asbestos Content
Dark Brown Mastic	ND
Dark Brown Baseboard	ND
<b>Sample Composite Homogeneity:</b> Moderate	

**Location: 40B, 4" brown covebase with brown glue-room 219**

Lab ID-Version‡: 7837687-1

Sample Layers	Asbestos Content
Dark Brown Mastic	ND
Dark Brown Baseboard	ND
<b>Sample Composite Homogeneity:</b> Moderate	

**Location: 40C, 4" brown covebase with brown glue-corridor**

Lab ID-Version‡: 7837688-1

Sample Layers	Asbestos Content
Dark Brown Mastic	ND
Dark Brown Baseboard	ND
<b>Sample Composite Homogeneity:</b> Moderate	

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## ACM BULK SAMPLE DATA SHEET

☒ FLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (100-point)

PAGE    OF   

Project Name/Address/Building No.: AA Building 2600 Mission Bell Dr. San Pablo, CA

Project #: R1177058 Sampled By: Ramiro Calvo Sampling Date: 2/17/17

Sample(s) Sent To: QALAB other:    TAT: Rush    24Hrs    48Hrs    3-5 Days   

\*\*\*E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)\*\*\*

HM#	Material Description	Sample Location	Material Locations
Sample ID			
- 1A	1" Brown Core Base w/ Glue (white)	2nd Fl - 239 - Dining Room	
- 1B		1 - 237 - Kitchen - Office	
- 1C		1 - Rm 203	
HM#	Material Description	Sample Location	Material Locations
Sample ID			
- 2A	Carpet Glue w/ Leveling Compound	2nd Fl - 239 Dining Room	
- 2B		1 - 203	
- 2C		Room 203 - Core 12" Red (6" x 1" grid)	
HM#	Material Description	Sample Location	Material Locations
Sample ID			
- 3A	Red USF - Pebble Pattern w/ yellow glue	2nd Fl 237 - Rest Coffee Area	
- 3B		1 - Cooking Display Area	
- 3C		1 - 1	
HM#	Material Description	Sample Location	Material Locations
Sample ID			
- 4A	Red USF (Solid Color) w/ yellow glue	2nd Fl - 237 - Prep Area - Front	
- 4B		1 - Back	
- 4C		1 - 1	
HM#	Material Description	Sample Location	Material Locations
Sample ID			
- 5A	Drywall / Joint Compound	2nd Fl - 239 - Dining Area - Corner	
- 5B		2nd Fl 219D - Storage	
- 5C		2nd Fl 206A - Storage Room	



Relinquished By: Ramiro Calvo  
 Received By:     
 Relinquished By:     
 Received By: A. MORRISSEY

Signature:    Date/Time: 2/17/17  
 Signature:    Date/Time: FEB 22 2017  
 Signature:    Date/Time: 2-23-17  
 Signature:    Date/Time: 10-25-17

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## ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

PAGE    OF   

Project Name/Address/Building No.: AA Building 2600 Mission Bell Dr. San Pablo, CA  
Project #: R1177058 Sampled By: Ramona Colton Sampling Date: 2/17/17  
Sample(s) Sent To: ENLAB other:    TAT: Rush 24Hrs 48Hrs 3-5 Days  
\*\*\*E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)\*\*\*

HM#	Material Description	Sample Location	Material Locations
-6A	Wainscot (Metal) Blue Brown - Regatta	2nd Fl #277 - Kitchen Prep Wall - Sect Wall	4'x4' 1 Location
-6B			
-6C			
HM#	Material Description	Sample Location	Material Locations
-7A	Wainscot Blue - Regatta	2nd Fl - #277 - Kitchen Prep	
-7B			
-7C			
HM#	Material Description	Sample Location	Material Locations
-8A	12" Red VFT + yellow glue	2nd Fl - #277 - Kitchen office	
-8B			
-8C			
HM#	Material Description	Sample Location	Material Locations
-9A	12" Red w/ Black Sand	2nd Fl - #277 - Kitchen office	
-9B			
-9C			
HM#	Material Description	Sample Location	Material Locations
-10A	Dry wall texture	2nd Fl - #277 - Back office Area - Hill Whys	
-10B			
-10C			



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Received By:    Signature:    Date/Time: 10:25am

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## ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

PAGE    OF   

Project Name/Address/Building No.: AA Building 2600 Mission Bell Dr. San Pablo, CA  
 Project #: R1172054 Sampled By: Romy Garcia Sampling Date: 2/17/17

Sample(s) Sent To: QALAB other:    TAT: Rush 24Hrs 48Hrs 3-5 Days

\*\*\*E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)\*\*\*

HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- 11A	2nd Fl - 4237 - office/Hall - Round Hole & Pin hole	(Random tiled)
- 11B	1 - 1 - 1 - Pin Hole Small Fissure	
- 11C	1 - 1 - 1 - Fissure - Large & Pin Hole	
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- 12A	2nd Fl - 4237 - Rest Room - near Light	
- 12B	1 - 1 - 1 - 1	
- 12C	1 - 1 - 1 - near HVAC vent	
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- A		
- B		
- C		
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- A		
- B		
- C		
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- A		
- B		
- C		



001682356

Relinquished By: Romy Garcia  
 Received By: HEIDI  
 Relinquished By:     
 Received By:   

Signature: [Signature]  
 Signature: [Signature]  
 Signature: [Signature]  
 Signature: [Signature]

Date/Time: 2/17/17  
 Date/Time:     
 Date/Time: FEB 22 2017  
 Date/Time: 2-23-17

10-250



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## ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

PAGE 01 OF 01

Project Name/Address/Building No.: AA Building 2600 Mission Blvd San Pablo, CA  
Project #: R1177058 Sampled By: Romya Gadhur Sampling Date: 2/17/17  
Sample(s) Sent To: ENCAB other:  TAT: Rush 24hrs 48hrs 3-5 Days  
\*\*\*E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)\*\*\*

HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- 13A	R117 - 117 - Hallway of 117	/
- 13B	1 - 117 -	/
- 13C	1 - 117 - Classroom	/
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- 14A	R117G	/
- 14B	1 G	/
- 14C	1 - Hallway to 117G	/
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- 15A	R117 - Hallway	/
- 15B		/
- 15C		/
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
5D	R117G - NW corner	/
5E	R103 - West of Sink/Cabinet	/
5F	1ST FL - Corridor (North)	/
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
5G	2nd FL - Corridor Adj Room 201	/

Relinquished By: Romya Gadhur  
Received By: HEIDI  
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Received By:

Signature: [Signature]  
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Signature: [Signature]

Date/Time: 2/17/17  
Date/Time: FEB 22 2017  
Date/Time: 2-23-17  
Date/Time: 10-25-17

001682356

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## ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

PAGE    OF   

Project Name/Address/Building No.: AA Building 2600 Mission Bell Dr. San Pablo, CA

Project #: R1177058 Sampled By: Romy Garcia Sampling Date: 2/17/17

Sample(s) Sent To: ENL AB other:    TAT: Rush 24Hrs 48Hrs 3-5 Days

\*\*\*E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)\*\*\*

HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- 12A	Rm 117H (X)	
- 12B		
- 12C		
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- 18A	Rm 117H - (10 LF)	
- 18B	Rm 113C (30 LF)	
- 18C	Rm 109 (30 LF)	
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- 19A	Rm 113	
- 19B		
- 19C		
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- 20A	R117 - (Hallway) East Side	
- 20B	West Side	
- 20C	Central	
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- 21A	Rm 111 (+11)	
- 21B	Rm 107	
- 21C	Hall 117	

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10-25

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## ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

PAGE    OF   

Project Name/Address/Building No.: AA Building, 2600 Mission Bell Dr. San Pablo, CA

Project #: R1172058 Sampled By: Ramona G. Linder Sampling Date: 2/17/17

Sample(s) Sent To: ENLAB other:    TAT: Rush 24 Hrs X 48 Hrs 365 Days

\*\*\*E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)\*\*\*

HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- 22A	Rm 107/109A	
- 22B	Rm 107/109A	
- 22C	Rm 107/109A	
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- 22A	Rm 107/109A	
- 22B	Rm 107/109A	
- 22C	Rm 107/109A	
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- 24A	Rm 113C North Side	
- 24B	Rm 113C East Side	
- 24C	Rm 113C West Side	
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- 25A	Rm 111	
- 25B	Rm 111	
- 25C	Rm 111	
HM#	Material Description	Qty
Sample ID	Sample Location	Material Locations
- 26A	Rm 117G East Wall	
- 26B	Rm 117G South Wall	
- 26C	Rm 117G West Wall	
- 26D	Rm 117G North Wall	
- 26E	Rm 117G East Wall	



001682356

Relinquished By: Ramona G. Linder

Received By: ASD

Relinquished By:   

Received By:   

Signature:   

Signature:   

Signature:   

Signature:   

Date/Time: 2/17/17

Date/Time: FEB 17 2017

Date/Time:   

Date/Time: 2-23-17

10.25

# Terracon

1466 66th Street Emeryville CA 94608 Tel: (510) 547-7771 Fax: (510) 547-1983

PM - S. Steiner  
ssteiner@terracon.com

PM - M. Benefield  
mbenefield@terracon.com

PM - M. Bishop  
mbishop@terracon.com

PM - K. Schroeter  
kschroeter@terracon.com

PM - T. Katchee  
tkatchee@terracon.com

PM - W. Frieszell  
wfrieszell@terracon.com

PM - K. Pigrim  
kpigrim@terracon.com

PM D. Uffert  
duffert@terracon.com

## ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

PAGE    OF   

Project Name/Address/Building No.: AA Building, 2600 Mission Bell Dr. San Pablo, CA  
Project #: R1177058 Sampled By: Romya Galdin Sampling Date: 2/17/17  
Sample(s) Sent To: ENCLAB other:    TAT: Rush 24Hrs 48Hrs 3-5 Days  
\*\*\*E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)\*\*\*

HM#	Material Description	Sample Location	Material Locations
27A	2" x 2" Grey Ceramic Tile - Grout + Mortar	R103 - Floor	(6 SF)
27B		L - L	
27C		L - L	
28A	3" x 6" Red Ceramic Tile - Grout + Mortar	R103 - Wainscot at sink	(5 SF)
28B		L - L	
28C		L - L	
29A	12" Light Grey Tiles / Yellow Glaze	R103 (1st Floor) - Floor	(15 SF)
29B		L - L	
29C		L - L	
30A	3" x 6" Brown Ceramic Tile - Grout + Mortar	2nd Fl - 237 - Janitor Closet	(2 SF)
30B		L - L	
30C		L - L	
31A	2" x 2" Grey Ceramic Tile - Grout + Mortar	2nd Fl - Restroom, 237B	(11 SF)
31B		L - L	
31C		L - L	



001682356

Relinquished By: Romya Galdin  
Received By: #1601  
Relinquished By:     
Received By:   

Signature: [Signature]  
Signature: [Signature]  
Signature: [Signature]

Date/Time: 2/17/17  
Date/Time: FEB 22 2017  
Date/Time: 2-23-17

10:25am

# Terracon

1466 66<sup>th</sup> Street Emeryville CA 94603 Tel: (510) 547-7771 Fax: (510) 547-1983

## ACM BULK SAMPLE DATA SHEET

PM - S. Steiner [ssp@terracon.com](mailto:ssp@terracon.com)  
 PM - K. Schroeter [kmschroeter@terracon.com](mailto:kmschroeter@terracon.com)  
 PM - M. Benfield [mshonfield@terracon.com](mailto:mshonfield@terracon.com)  
 PM - M. Bishop [mike.bishop@terracon.com](mailto:mike.bishop@terracon.com)  
 PM - K. Pilgrim [kpilgrim@terracon.com](mailto:kpilgrim@terracon.com)  
 PM - T. Kaitchee [takaitchee@terracon.com](mailto:takaitchee@terracon.com)  
 PM D. Uffert [duffert@terracon.com](mailto:duffert@terracon.com)  
 PM - W. Frieszell [william.frieszell@terracon.com](mailto:william.frieszell@terracon.com)

☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

PAGE    OF   

Project Name/Address/Building No.: AA Building, 2600 Mission Bell Dr, San Pablo, CA  
 Project #: R1177058 Sampled By: Ramona G. Kuhn Sampling Date: 2/17/17  
 Sample(s) Sent To: ENLAB other:    TAT: Rush 24Hrs 48Hrs 3-5 Days  
 \*\*\*E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)\*\*\*

HM#	Material Description	Sample Location	Material Locations
32A	3" x 6" off-white-ceramic-grout	237 - Corridor (at hallway) previous sink location	
32B			
32C			
HM#	Material Description	Sample Location	Material Locations
33A	12" tan VFT (Back Stage Area)	219-B Back Stage Area - 2 layers	
33B			
33C			
HM#	Material Description	Sample Location	Qty
34A	12" Green VFT w/ yellow glue	219A - Classroom	
34B		206A -	
34C		Corridor at Room 203	
HM#	Material Description	Sample Location	Qty
35A	Sink Insulation - Block	206A - Open space	
35B			
35C			
HM#	Material Description	Sample Location	Qty
36A	Big Py wall texture	Rm 219 Classroom 219A	
36B		Rm 219 Classroom 219A	
36C		Rm 219 Hallway 219E	
36D		Rm 219 office 219E	
36E		Rm 219 office 219E	



Relinquished By: Ramona G. Kuhn Signature:    Date/Time: 2/17/17  
 Received By: HEID Signature:    Date/Time: FEB 22 2017  
 Relinquished By:    Signature:    Date/Time:     
 Received By:    Signature:    Date/Time: 2-23-17

10-250

# Terracon

1466 66th Street Emeryville CA 94608 Tel: (510) 547-7771 Fax: (510) 547-1983

## ACM BULK SAMPLE DATA SHEET

PM - S. Stalner [ssalner@terracon.com](mailto:ssalner@terracon.com)  
 PM - K. Schroeter [krschroeter@terracon.com](mailto:krschroeter@terracon.com)  
 PM - M. Benfield [mshenofield@terracon.com](mailto:mshenofield@terracon.com)  
 PM - T. Katchee [takatchee@terracon.com](mailto:takatchee@terracon.com)  
 PM - M. Bishop [mike.bishop@terracon.com](mailto:mike.bishop@terracon.com)  
 PM - W. Frieszell [william.frieszell@terracon.com](mailto:william.frieszell@terracon.com)  
 PM - K. Pilgrim [kpilgrim@terracon.com](mailto:kpilgrim@terracon.com)  
 PMD. Ufferliger [dufferliger@terracon.com](mailto:dufferliger@terracon.com)

☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

PAGE    OF   

Project Name/Address/Building No.: AA Building 2600 Mission Bell Dr. San Pablo, CA  
 Project #: R1177058 Sampled By: Romy Garcia Sampling Date: 2/17/17  
 Sample(s) Sent To: Env. Lab other:    TAT:    Rush    24Hrs    48Hrs    3-5 Days     
 \*\*\*E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)\*\*\*

HM#	Material Description	Sample Location	Material Locations
37A	transite sink insulation - <u>Black</u>	Rm 206 - 1 SWIC	
37B		1 - 1	
37C		1 - 1	
38A	2x4' Ceiling tile - <u>Yr Hole + Pin Hole</u>	Rm 206 - 206B	
38B		1 - 206A	
38C		1 - 206A	
39A	2x4' Ceiling tile - <u>Large Fissure + Pin Hole</u>	Rm 206 - 206B	
39B		1 - 206B	
39C		Corridor	
40A	4" Brown Core Base w/ Brown G/ply	Room 209 206A	
40B		206 219	
40C		Corridor - <u>North East Area</u>	
41A	<del>4" Brown Core Base w/ Brown G/ply</del>	<del>Room 209 206A</del>	
41B	<del>4" Brown Core Base w/ Brown G/ply</del>	<del>206 219</del>	
41C	<del>4" Brown Core Base w/ Brown G/ply</del>	<del>Corridor - North East Area</del>	

Relinquished By: Romy Garcia Signature: [Signature] Date/Time: 2/17/17  
 Received By: [Signature] Signature: [Signature] Date/Time: FEB 22 2017  
 Relinquished By: [Signature] Signature: [Signature] Date/Time: 2-23-17  
 Received By: [Signature] Signature: [Signature] Date/Time: 10-25-17





Report for:

**Mr. Kenneth Pilgrim**  
**RGA Environmental, Inc.**  
1466 66th Street  
Emeryville, CA 94608

---

Regarding: Project: R1177058; AA Building 2600 Mission Bell Dr, San Pablo, CA  
EML ID: 1684001

Approved by:

Dates of Analysis:  
Asbestos PLM: 03-01-2017

Approved Signatory  
Dr. Kamashwaran Ramanathan

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

---

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-27-2017

Re: R1177058; AA Building 2600 Mission Bell Dr,  
San Pablo, CA

Date of Report: 03-01-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Total Samples Submitted:** 1**Total Samples Analyzed:** 1**Total Samples with Layer Asbestos Content > 1%:** 0**Location: 21A, 1st fl, room 111**

Lab ID-Version‡: 7843770-1

<b>Sample Layers</b>	<b>Asbestos Content</b>
Black Baseboard	ND
White Glue	ND
Brown Mastic	ND
<b>Sample Composite Homogeneity:</b>	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K 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.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".







Report for:

**Mr. Kenneth Pilgrim**  
**RGA Environmental, Inc.**  
1466 66th Street  
Emeryville, CA 94608

---

Regarding: Project: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.  
EML ID: 1684716

Approved by:

Dates of Analysis:  
Asbestos PLM: 03-01-2017

Approved Signatory  
Dr. Kamashwaran Ramanathan

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

---

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-28-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 03-02-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Total Samples Submitted:** 9**Total Samples Analyzed:** 9**Total Samples with Layer Asbestos Content > 1%:** 0**Location: 41A, 12" white VFT with blue sand and yellow glue-1st floor-corridors-N.**

Lab ID-Version‡: 7848097-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Off-White Floor Tile	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 41B, 12" white VFT with blue sand and yellow glue-1st floor-corridors-N.**

Lab ID-Version‡: 7848098-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Off-White Floor Tile	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 41C, 12" white VFT with blue sand and yellow glue-1st floor-corridors-E.**

Lab ID-Version‡: 7848099-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Off-White Floor Tile	ND
<b>Sample Composite Homogeneity:</b>	Good

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-28-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 03-02-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 42A, 4" grey covebase with white glue-1st floor-corridors-N.**

Lab ID-Version‡: 7848100-1

Sample Layers	Asbestos Content
Beige Mastic	ND
Black Baseboard	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 42B, 4" grey covebase with white glue-1st floor-corridors-N.**

Lab ID-Version‡: 7848101-1

Sample Layers	Asbestos Content
Beige Mastic	ND
Black Baseboard	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 42C, 4" grey covebase with white glue-1st floor-corridors-E.**

Lab ID-Version‡: 7848102-1

Sample Layers	Asbestos Content
Beige Mastic	ND
Black Baseboard	ND
<b>Sample Composite Homogeneity:</b> Good	

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: RGA Environmental, Inc.

Date of Sampling: 02-17-2017

C/O: Mr. Kenneth Pilgrim

Date of Receipt: 02-28-2017

Re: R1177058; AA Building, 2600 Mission Bell Dr., San Pablo, CA.

Date of Report: 03-02-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 43A, Blue carpet glue-2nd floor-room 201 throughout**

Lab ID-Version‡: 7848103-1

Sample Layers	Asbestos Content
Green Mastic	ND
Red Floor Tile	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 43B, Blue carpet glue-2nd floor-room 201 throughout**

Lab ID-Version‡: 7848104-1

Sample Layers	Asbestos Content
Green Mastic	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 43C, Blue carpet glue-2nd floor-room 201 throughout**

Lab ID-Version‡: 7848105-1

Sample Layers	Asbestos Content
Green Mastic	ND
Carpet	ND
<b>Composite Non-Asbestos Content:</b>	85% Synthetic Fibers
<b>Sample Composite Homogeneity:</b> Good	

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

# Terracon

1466 66<sup>th</sup> Street Emeryville CA 94608 Tel: (510) 547-7771 Fax: (510) 547-1983

## ACM BULK SAMPLE DATA SHEET

PM - S. Steiner [sssteiner@terracon.com](mailto:sssteiner@terracon.com)  
 PM - K. Schroeter [kschroeter@terracon.com](mailto:kschroeter@terracon.com)  
 PM - K. Pilgrim [kpilgrim@terracon.com](mailto:kpilgrim@terracon.com)  
 PM - M. Bonfield [mbonfield@terracon.com](mailto:mbonfield@terracon.com)  
 PM - T. Keltch [tkeltch@terracon.com](mailto:tkeltch@terracon.com)  
 PM D. Ufferlge [dufferlge@terracon.com](mailto:dufferlge@terracon.com)  
 PM - M. Bishop [mike.bishop@terracon.com](mailto:mike.bishop@terracon.com)  
 PM - W. Frieszel [william.frieszel@terracon.com](mailto:william.frieszel@terracon.com)

☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

PAGE 01 OF 01

Project Name/Address/Building No.: AA Building 2600 Mission Bell Dr. San Pablo, CA  
 Project #: R1172058 Sampled By: Ramona L. L. L. Sampling Date: 2/17/17  
 Sample(s) Sent To: ENCLAB other: TAT: Rush 24hrs 48hrs 35 Days  
 \*\*\*E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)\*\*\*

HM#	Material Description	Sample Location	Material Locations
41A	12" white Vitrified Blue Enamel	1st Fl - Corridors N	
41B		1 - 1 - N	
41C		1 - 1 - E	
HM#	Material Description	Sample Location	Material Locations
42A	4" Ceramic Tile Base w/ white glaze	1st Fl - Corridors N	
42B		1 - 1 - N	
42C		1 - 1 - E	
HM#	Material Description	Sample Location	Material Locations
43A	Blue Carpet	2nd Fl - Rm 201 thru 204	
43B		1 - 1 - 1	
43C		1 - 1 - 1	
HM#	Material Description	Sample Location	Material Locations
A			
B			
C			
HM#	Material Description	Sample Location	Material Locations
A			
B			
C			

001684716

Relinquished By: Ramona L. L. L. Signature: [Signature] Date/Time: 2/17/17  
 Received By: [Signature] Signature: [Signature] Date/Time: FEB 27 2017  
 Relinquished By: [Signature] Signature: [Signature] Date/Time: 2/28/17 10:10  
 Received By: [Signature] Signature: [Signature]

## **Appendix 2**

### Laboratory Results and Chain of Custody Forms - Lead



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

## Environmental Chemistry Analysis Report

**Quantem Set ID:** 276705  
**Date Received:** 02/23/17  
**Received By:** Travis Miller  
**Date Sampled:**  
**Time Sampled:**  
**Analyst:** CR  
**Date of Report:** 02/24/17

**Client:** RGA Environmental  
K. Pilgrim  
1466 66th Street  
Emeryville, CA 94608

**Acct. No.:** C018

**Project:** AA Building - 2600 Mission Bell Dr. , San Pa  
**Location:** AA Building - 2600 Mission Bell Dr. , San Pa  
**Project No.:** R1177058

AIHA ID: 101352

Quantem ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	Pb-1	Bulk	Lead	<50.0	50	mg/kg	02/23/17 14:36	B EPA 7000B (1)
002	Pb-2	Bulk	Lead	<50.0	50	mg/kg	02/23/17 14:36	B EPA 7000B (1)
003	Pb-3	Paint	Lead	<0.00490	0.0049	%	02/23/17 14:36	P EPA 7000B (1)
004	Pb-4	Bulk	Lead	209	49.7	mg/kg	02/23/17 14:36	B EPA 7000B (1)
005	Pb-5	Bulk	Lead	<49.9	49.9	mg/kg	02/23/17 14:36	B EPA 7000B (1)
006	Pb-6	Bulk	Lead	218	49.6	mg/kg	02/23/17 14:36	B EPA 7000B (1)
007	Pb-7	Paint	Lead	<0.00498	0.00498	%	02/23/17 14:36	P EPA 7000B (1)

Authorized Signature:

Cherry Rossen, Technical Manager

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. Quantem is not responsible for user-supplied data used in calculations.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



# Supplemental Report

## QAQC Results

**QA ID:** 15022

**Test:** Lead

**Date:** 2/23/2017

**Matrix:** Bulk

**Lab Number:** 276705

**Approved By:** Cherry Rossen

**Date Approved:** 2/23/2017

### Notes:

### Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

### Standards Data:

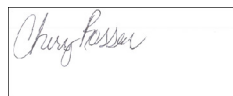
Standard	Low Limit	Obtained	High Limit
FCV	4.5	4.7	5.5
ICV	0.9	0.9	1.1
RLVS	0.128	0.162	0.192

### Duplicate Data:

### Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
276705-001	0.000	2.000	2.054	102.7			
LCS-B1	0.000	2.479	2.562	103.3	2.456	99.1	4.2

Authorized Signature:



Cherry Rossen, Technical Manager

# Supplemental Report

## QAQC Results

**QA ID:** 15023

**Test:** Lead

**Date:** 2/23/2017

**Matrix:** Paint

**Lab Number:** 276705

**Approved By:** Cherry Rossen

**Date Approved:** 2/23/2017

**Notes:**

### Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

### Standards Data:

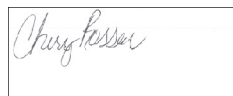
Standard	Low Limit	Obtained	High Limit
CCV	4.5	4.8	5.5
FCV	4.5	4.7	5.5
ICV	0.9	0.9	1.1
RLVS	0.08	0.11	0.12

### Duplicate Data:

### Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
LCS-P1	0.000	1.980	2.048	103.4	2.040	103.0	0.4
276691-001	0.009	2.000	2.050	102.0			

Authorized Signature:



Cherry Rossen, Technical Manager

276705

Terracon

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 spsteiner@terracon.com

☐ PM - K. Schroeter  
 kmschroeter@terracon.com

☒ PM - K. Pilgrim  
 kmpilgrim@terracon.com

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 wmfrieszell@terracon.com

# LEAD PAINT SAMPLE DATA SHEET

\* Lead Analysis  
 \_\_\_ Flame AA (EPA 7420)  
 \_\_\_ TILC

PAGE \_\_\_ OF \_\_\_

Project Name/ Address/ Building No. AA Building - 2600 Mission Bell Dr., San Pablo, CA  
 Project# R1177059 Sampled By: Roughy Caldwell Sampling Date: 2/17/17  
 Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☒ Quantem Other \_\_\_\_\_  
 TAT ☐ Rush ☐ 24HRS ☒ 48HRS ☐ 3-5 Day

\*\*\*FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)\*\*\*

\*\*\*ADDITIONAL REPORT RECIPIENT(S): \_\_\_\_\_\*\*\*

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
Pb-1	Paint Color: <u>2" Grey Ceramic tile</u> Substrate: _____ Component: <u>Floor</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Rm 103 - Floor</u>	
Pb-2	Paint Color: <u>3" x 6" Red Ceramic tile</u> Substrate: _____ Component: <u>in All Wainscot</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Rm 103 - Wainscot</u>	
Pb-3	Paint Color: <u>off white</u> Substrate: <u>Plaster</u> Component: <u>Wall</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Rm 117 - Wall</u>	<u>1st Fl</u>
Pb-4	Paint Color: <u>3" x 6" Brown Ceramic tile</u> Substrate: _____ Component: <u>wainscot</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Rm 237 - Janitor Closet - sink wainscot</u>	
Pb-5	Paint Color: <u>2" Grey Ceramic tile</u> Substrate: <u>Mortar</u> Component: <u>Floor</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Rm 237 - 2 Rest Room / Storage Areas</u>	

Relinquished By: Roughy Caldwell Signature: \_\_\_\_\_ Date/Time: 2/21/17  
 Received By: Heidi Signature: \_\_\_\_\_ Date/Time: **FEB 22 2017**  
 Received By: TM Signature: \_\_\_\_\_ Date/Time: 2-23-17

276705

Terracon

<input type="checkbox"/> PM - S. Steiner sosteiner@terracon.com	<input type="checkbox"/> PM - K. Schroeter kmschroeter@terracon.com	<input checked="" type="checkbox"/> PM - K. Pilgrim kmpilgrim@terracon.com	<b>LEAD PAINT SAMPLE DATA SHEET</b> * Lead Analysis Flame AA (EPA 7420) _____ TILC _____ PAGE _____ OF _____
<input type="checkbox"/> PM - M. Bryant mvbryant@terracon.com	<input type="checkbox"/> PM - T. Kattchee takattchee@terracon.com	<input type="checkbox"/> PM - M. Benefield msbenefield@terracon.com	
<input type="checkbox"/> PM D. Ufferfilge dufferfilge@terracon.com	<input type="checkbox"/> PM - M. Bishop mrbishop@terracon.com	<input type="checkbox"/> PM - W. Frieszell wmfrieszell@terracon.com	

Project Name/ Address/ Building No. AA Building - 2600 Mission Bell Dr., San Pablo, CA  
 Project# R1177052 Sampled By: Ramona Caldwell Sampling Date: 2/17/17  
 Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☒ Quantem Other \_\_\_\_\_  
 TAT ☐ Rush ☐ 24HRS ☒ 48HRS ☐ 3-5 Day

\*\*\***FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)**\*\*\*

\*\*\***ADDITIONAL REPORT RECIPIENT(S):** \_\_\_\_\_ \*\*\*

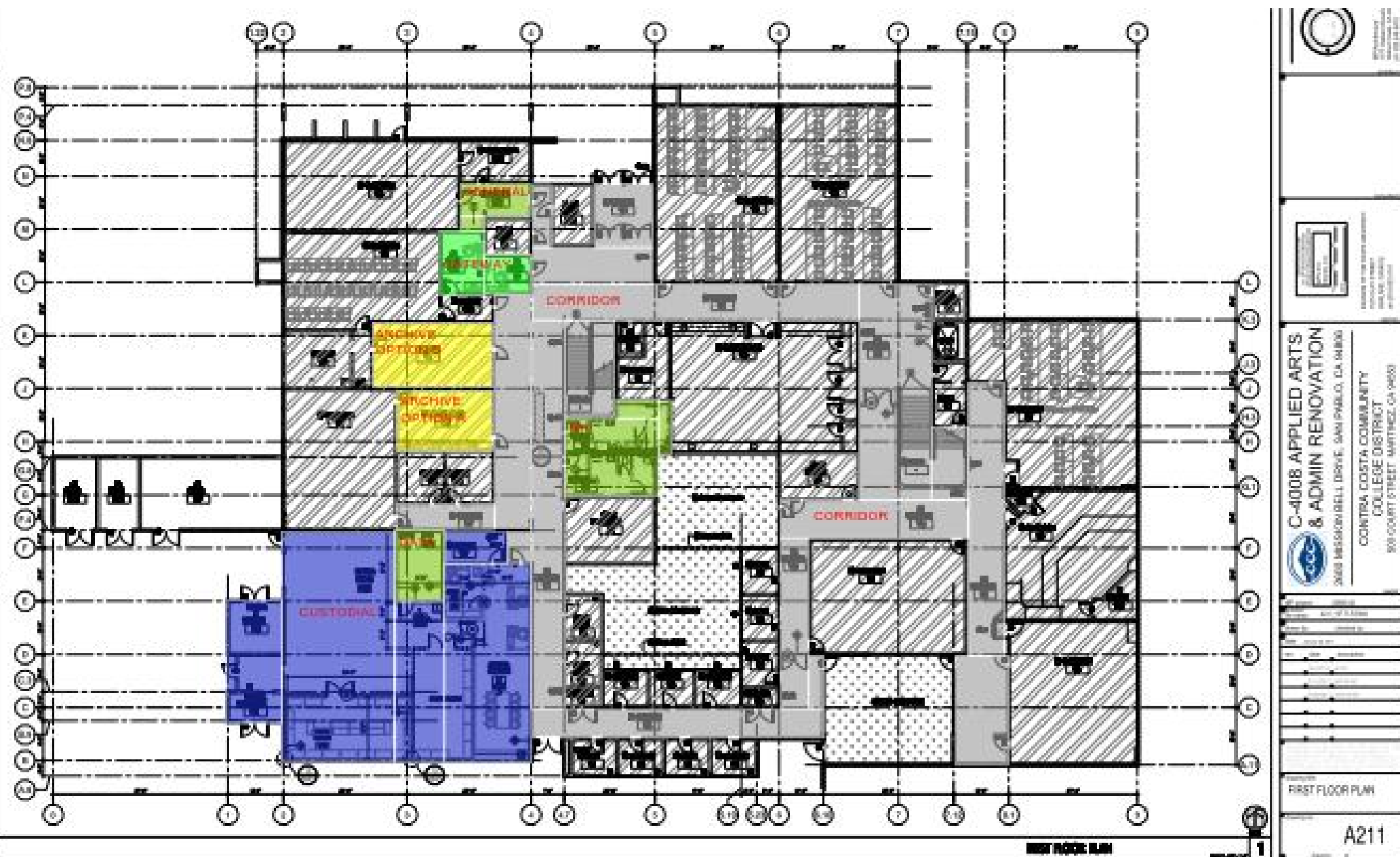
Sample ID	Paint Description and Sample Location	Condition (I/F/P)
Pb 6	Paint Color: <u>3"x6" white ceramic tile</u> Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____ <u>2nd Fl - 237- office Area (Previous Sink Area)</u>	
Pb 7	Paint Color: <u>off-white</u> Substrate: <u>drywall</u> Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____ <u>@ 2nd Fl - Rm 203 Partition wall</u>	
Pb	Paint Color: _____ Substrate: _____ Plaster Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
Pb	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	

Relinquished By: Ramona Caldwell Signature: [Signature] Date/Time: 2/21/17  
 Received By: Heidi Signature: [Signature] Date/Time: FEB 22 2017  
 Received By: TH Signature: \_\_\_\_\_ Date/Time: 2-23-17

## **Appendix 3**


### Survey Area and Sample Location Figures

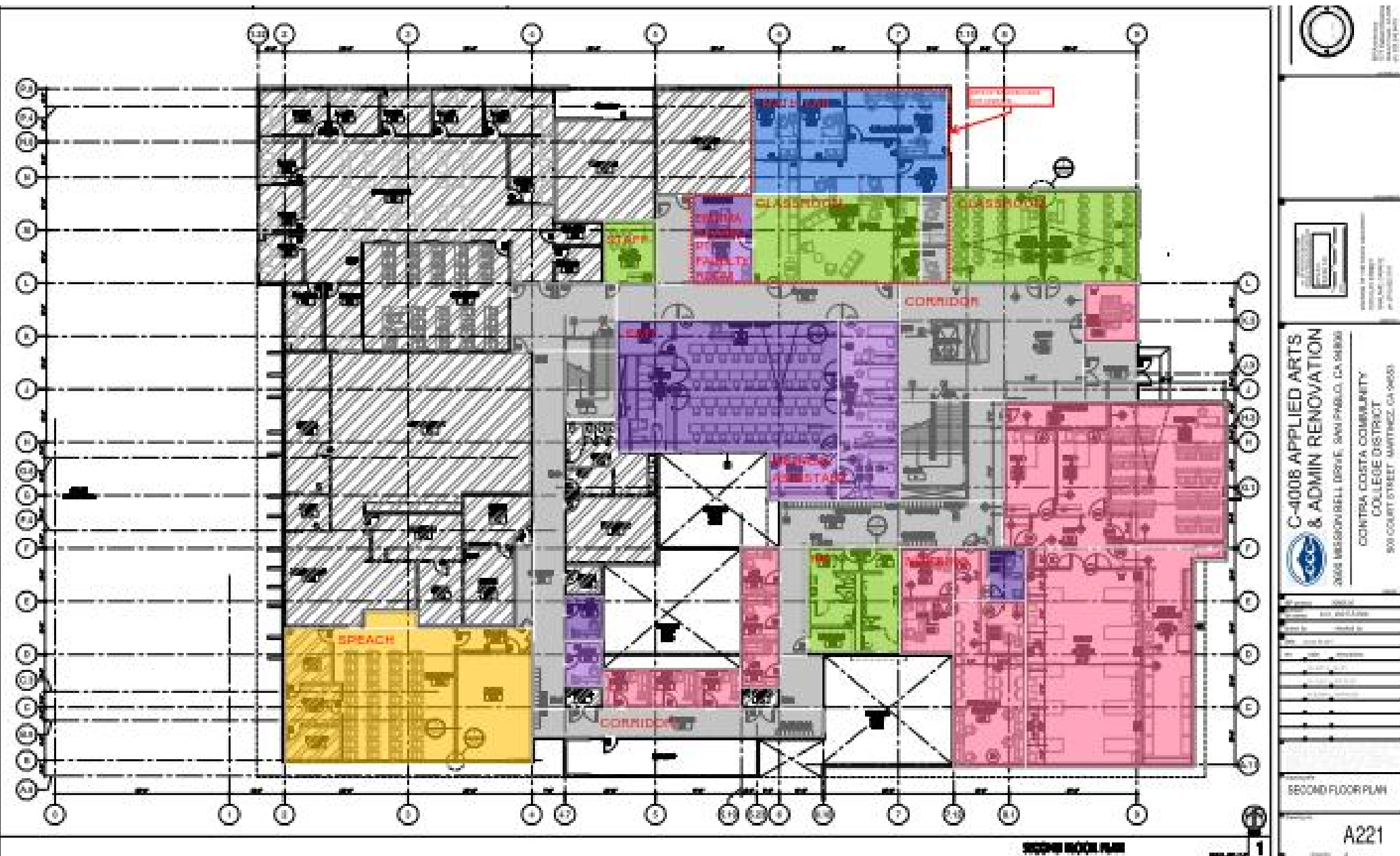




Shaded Area = Survey Area

Not to Scale

 <p><b>RGA</b> ENVIRONMENTAL <small>A Terracon COMPANY</small></p>	Applied Arts & Administrative 1 <sup>st</sup> Floor Survey Area	Contra Costa Community College San Pablo, California		N ↑
	Survey Date: 2/17 & 2/20/2017	PROJECT NO.:	R1177058	Figure 1



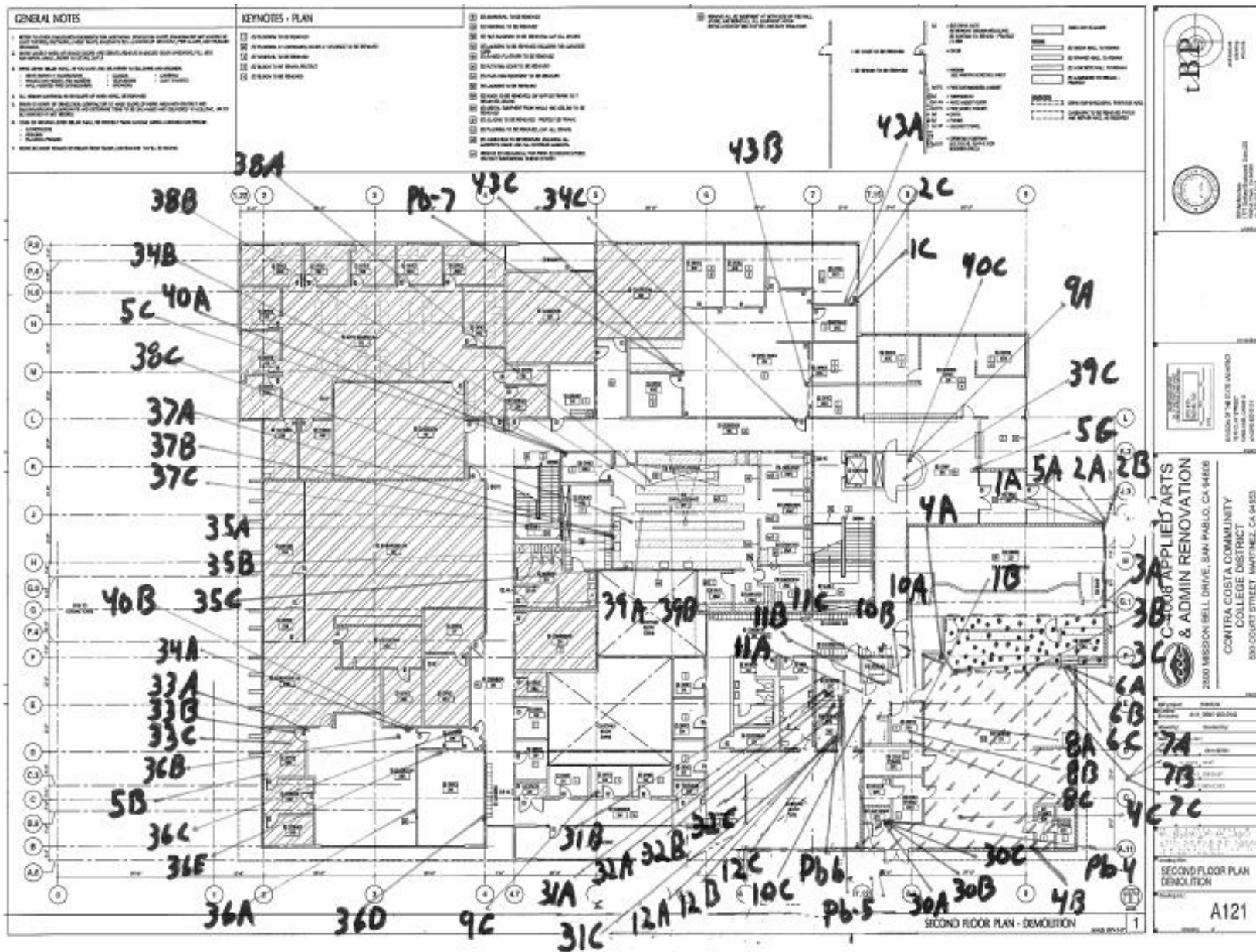
Shaded Area = Survey Area

Not to Scale

 RGA ENVIRONMENTAL <small>A Terracon COMPANY</small>	Applied Arts & Administrative 2 <sup>nd</sup> Floor Survey Area	Contra Costa Community College San Pablo, California		N ↑
	Survey Date: 2/17 & 2/20/2017	PROJECT NO.:	R1177058	Figure 2







not to Scale



Applied Arts & Administrative  
2nd Floor Sample Locations

Survey Date: 2/17 & 2/20/2017

Contra Costa Community College  
San Pablo, California

PROJECT NO.:

R1177058



Figure 4

## **Appendix 4**

### Inspector Certifications

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

**John W Alexander**

Name

Certification No. **07-4296**

Expires on **02/21/18**



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

Inspector/Assessor

02/18/2017

Project Monitor

02/18/2017



John W. Alexander

ID #: 18887

State of California Department of Public Health

Lead-Related  
Construction  
Certificate

Certificate  
Type

Expiration  
Date



Inspector/Assessor	10/25/2017
Project Monitor	10/25/2017



Remington R. Caldwell

ID # 15307

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

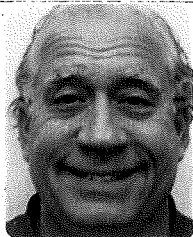
**Remington R Caldwell**

Name

Certification No. **97-2180**

Expires on **05/06/17**

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.





## SERVICES

Worker Health and Safety

OSHA Training and Compliance

Safety Audits

Ergonomics

IIPP and Specialized Programs

Hazard Communication

Fleet Safety

Indoor Air Quality

Mold Consulting

Moisture Management Plans

Industrial Hygiene

Asbestos and Lead Management

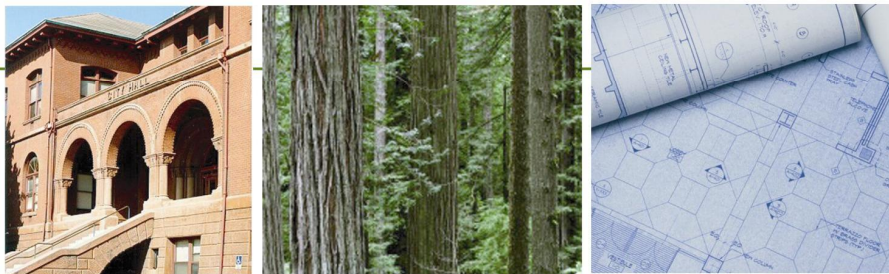
Hazardous Materials

Environmental Site Assessments  
Phase I, II, III

Risk Management

Subsurface Investigation

Litigation Support



## Limited Hazardous Materials Survey Report

Contra Costa Community College – Applied Arts Building  
Chiller Replacement Project  
2600 Mission Bell  
San Pablo, California

RGA Project No: R1167404

June 29, 2016

### Prepared for:

Contra Costa Community College District  
500 Court Street  
Martinez, California 94553

### Prepared by:

RGA Environmental, Inc.  
1466 66<sup>th</sup> Street  
Emeryville, CA 94608

Report prepared by:  Brad Wallenberg  
Industrial Hygienist, CSST 13-5068

Report reviewed by:  Kenneth Pilgrim  
Department Manager, CAC 03-3503

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<b>2. Scope of Work.....</b>	<b>3</b>
<b>3. Methods and Sampling Strategy .....</b>	<b>3</b>
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<b>5. Lead Results .....</b>	<b>5</b>
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## ***Appendices***

- 1. Laboratory Results and Chain of Custody - Asbestos**
- 2. Laboratory Results and Chain of Custody – Lead**
- 3. Sample Location Figure**
- 4. Inspector Certificates**



# Limited Hazardous Materials Survey Report

*Contra Costa College  
Applied Arts Building  
2600 Mission Bell Drive  
San Pablo, California*

## **1. Executive Summary**

The following is a report of the limited hazardous materials survey conducted by Remington Caldwell, California Certified Asbestos Consultant (CAC) and California Department of Public Health (CDPH) Inspector Assessor with RGA Environmental, A Terracon Company, (RGA). The survey was performed on June 13, 2016 in the Applied Arts Building of the Contra Costa College Campus located at 2600 Mission Bell Drive in San Pablo, California.

The scope of the survey was to identify hazardous materials including asbestos containing materials (ACMs) and lead containing paint with the potential to be impacted by the Chiller Replacement Project as depicted in drawing set dated June 13, 2016 and provided by the District. The survey area was limited to building areas and materials with the potential to be disturbed by the planned project.

During the survey, eight (8) homogenous suspect ACMs were identified. Three (3) of the homogeneous suspect ACMs tested positive for asbestos content.

Nine (9) painted finishes were sampled for potential lead content. Two (2) of the painted materials sampled were reported above the laboratory detection limit for lead.

Table I summarizes the materials identified as ACMs. Table II summarizes the materials that were determined to be negative for asbestos content. Table III summarizes the lead concentrations of the materials sampled.

## **2. Scope of Work**

The scope of the survey was as follows:

- Inspect the survey area for the presence of suspect ACMs and lead-containing paint with the potential to be impacted by the planned Chiller Replacement project.
- Collect a representative number of samples of suspect ACMs following the National Emissions Standard for Hazardous Air Pollutants (NESHAPs) protocol for sample collection for a renovation survey. Analyze asbestos bulk samples using polarized light microscopy (PLM) in accordance with EPA's July 1993 method for the determination of asbestos in bulk building materials - EPA 600/R-93/116.
- Collect paint chip samples of the primary painted surfaces within the survey area suspected to be lead containing for purposes of compliance with California Department of Occupational Safety and Health (DOSH) Lead in Construction Standard. Bulk samples and paint chips were analyzed at an accredited laboratory by Flame Atomic Absorption (AA) for Total Lead reported in parts per million (ppm).
- Submit written report including analytical results, regulatory requirements, conclusions and recommendations.

## **3. Methods and Sampling Strategy**

### **Visual Inspection**

Accessible materials were visually inspected in the survey area using the methods presented in the federal Asbestos Hazard Emergency Response Act (AHERA) regulations (40 CFR, Part 763) as a guideline. AHERA was originally only applicable to schools, however state and federal Occupational Safety and Health Administration (OSHA) and Asbestos School Hazard Abatement and Reauthorization Act (ASHARA) have adopted the AHERA sampling methodology for all buildings subject to demolition or renovation.

### **Bulk Sampling of Asbestos**

Bulk samples of all suspect ACM homogeneous materials were collected. A homogeneous material is defined as a surfacing material, thermal system insulation, or miscellaneous material that is uniform in color, texture and age of construction. Examples of homogeneous materials include:

- Pipe-insulation produced by the same manufacturer and installed during the same time period;
- Resilient flooring of identical color and pattern;
- Troweled on surfacing materials located in contiguous areas.

The survey area was visually inspected for the presence of suspect materials. As materials were identified, bulk samples were obtained with the aid of a coring device or other hand tool and placed into individual sampling bags. Each sample was given a discrete identification number and recorded on field notes as well as chain-of-custody forms. Refer to accompanying tables and appendices for details on material sample locations and results. Bulk samples were transported to EMLab P&K (EML) in South San Francisco, California.

### **Bulk Sampling of Suspect Lead Containing Materials**

Paint chip and/or suspected lead containing materials were collected using a hand scraper and were placed into individual plastic sampling containers. Each sample was provided a discrete sample number, which was recorded on a chain-of-custody form. Samples were transported to QuanTEM Laboratories (QuanTEM) in Oklahoma City, Oklahoma for analysis.

### **Bulk Sample Analysis - Asbestos**

EML is accredited under the National Institute of Standards and Technology's National Voluntary Laboratory Accreditation Program (NVLAP) for determination of asbestos fibers in bulk materials.

All samples were analyzed using polarized light microscopy (PLM) techniques in accordance with methodology approved by the U.S. Environmental Protection Agency (EPA). As set forth in the Code of Federal Regulations, 40 CFR Part 763, Appendix A to Subpart F, Section 1.2 and 1.7.2.4, the lower limit of reliability detection for asbestos using the PLM method is approximately one percent (1%) by volume. Cal-OSHA defines asbestos containing construction materials (ACCM) as those materials having asbestos content of greater than one tenth of one percent ( $>0.1\%$ ).

When None Detected (ND) appears in this report, it should be interpreted as meaning no asbestos was observed in the sample material above the reliable limit of detection for the PLM method.

Note: under EPA assessment criteria, if a single sample of a homogeneous material tests positive for asbestos, all homogeneous materials within that building are considered to be asbestos containing.

### **Bulk Sample Analysis – Lead**

All paint samples were analyzed for lead content using the Flame Atomic Absorption spectroscopy in accordance to EPA Method SW846-3050B-7000B. When “<” appears in the lead sample report, it should be interpreted as meaning below analytical detection limit.

#### 4. Asbestos Results

During the survey, eight (8) homogenous suspect ACMs were identified. Three (3) of the homogeneous suspect ACMs tested positive for asbestos content. One (1) material was assumed to be asbestos containing. All identified ACMs are listed below in Table I below.

**TABLE I**  
**ASBESTOS-CONTAINING MATERIALS**

Material Description	Material Location	Waste Category	Asbestos Type	Estimated Quantity
Sealant, White	Cooling Tower – Flange sealant	Cat. II	2% CH	20 sf
Flange Gaskets	Cooling Tower, Chiller and Mechanical Room	Cat. I	30 - 70% CH	15 gaskets
Off-White Mastic/Sealant	Chiller and Mechanical Rooms – Applied on Fiberglass Pipe Insulation – Ends and at Valve Bodies	Cat. II	2% CH	25 sf

NA = Not Applicable, CH = Chrysotile, RACM = Regulated asbestos containing material (friable), Cat. I = Non-friable (note ACM must be reclassified as a RACM if rendered friable during removal), Cat. II = Category II Non-friable (note ACM must be reclassified as a RACM if rendered friable during removal), sf = square feet

The materials that were reported as negative for asbestos content are listed in Table II below.

**TABLE II**  
**NON-ASBESTOS-CONTAINING MATERIALS**

Material Description	Material Location(s)
Silver Paint	Chiller Tower
Stucco Wall	Chiller Room
Concrete Pad	Chiller and Mechanical Rooms
Wallboard with Joint Compound	Chiller and Mechanical Rooms
Green Neoprene Glue	Chiller Room

#### 5. Lead Results

Nine (9) painted finishes were sampled for potential lead content. Two (2) of the painted materials sampled were reported above the laboratory detection limit for lead. Table III below summarizes the sampling locations and results for the materials.

**TABLE III  
 LEAD SAMPLE RESULTS**

Sample Number	Description/Location of Sample	Results (ppm)
Pb-01	Silver Paint on Metal on Chiller Tower	<49.4
Pb-02	Tan Paint on Stucco Wall in Chiller Room	<48.8
<b>Pb-03</b>	<b>Tan Paint on Metal on Door of Chiller Room</b>	<b>825</b>
Pb-04	Green Paint on Metal on Equipment of Chiller Room	<49.8
Pb-05	Blue Paint on Metal Pipe in Chiller Room	<49.8
Pb-06	Grey Paint on Drywall in Chiller Room	<49.6
Pb-07	Grey Paint on Concrete Floor of Mechanical and Chiller Room	<49.5
Pb-08	White Caulk on Metal on Flange of Chiller Tower	<49.1
<b>Pb-09</b>	<b>Green Paint on Neoprene in Chiller Room</b>	<b>522</b>

ppm = parts per million

## 7. Regulatory Requirements

### Asbestos

Building materials within the survey area contain asbestos in concentrations greater than one tenth of one percent (0.1%). Impacting materials containing greater than 0.1% asbestos either through repair, maintenance, renovation or demolition activities triggers numerous regulations enforced by such agencies as OSHA (worker protection) and EPA (environmental exposure, transportation and disposal).

Listed below are the regulations that apply if the materials are removed:

- Any individual who contracts to provide health and safety services relating to ACMs must be certified by Cal-OSHA as either a Certified Asbestos Consultant or a Site Surveillance Technician. The activities they are certified to provide include: conducting asbestos surveys; writing work plans or specifications for abatement; monitoring the work of abatement contractors; collecting air samples; and determining if the work area is safe for re-occupancy by non-asbestos workers. Regulation: Cal-OSHA 8 CCR 1529 (q)(1).
- If more than 100 square feet of materials that contain greater than 0.1% asbestos will be abated, they must be abated by a Cal-OSHA registered asbestos abatement contractor. Regulation: Cal-OSHA 8 CCR 1529 (R).

- ACMs that are classified by OSHA as other/miscellaneous materials are present. Removal of these materials is considered a Class II activity according to Cal-OSHA regulations. Work practices and engineering controls for Class II work are specified in Cal-OSHA 8 CCR 1529 (g) (7-8).
- If more than 100 square feet or 100 linear feet of friable ACM will likely be removed, the abatement contractor must notify the Bay Area Air Quality Management District ten (10) days prior to removing the material. Regulation: BAAQMD Regulation 11, Rule 2.
- Friable ACMs greater than 1% asbestos must be manifested, transported, and disposed of as hazardous waste in accordance with the Department of Toxic and Substances Control (DTSC), a division of Cal-EPA. DTSC regulates disposal of asbestos waste. DTSC issues U.S. EPA hazardous waste generator identification numbers.

### **Lead-Containing Materials**

Lead-containing paint was identified during the survey. Impacting lead-containing materials either through renovation or demolition activities triggers numerous regulations enforced by such agencies as OSHA (worker protection), EPA (environmental exposure, transportation and disposal), and Department of Public Health (DPH).

Listed below are the regulations that apply if the lead containing materials are impacted during renovation activities:

- Federal OSHA as well as California OSHA regulates all worker exposure during construction activities that impact lead-containing materials. California OSHA enforces the Lead in Construction Standard in Title 8 CCR 1532.1. The scope covers construction work where employees may be exposed to lead during such activities as demolition, removal, surface preparation for re-painting, renovation, clean-up and routine maintenance. The OSHA specified method of compliance includes respiratory protection, protective clothing and equipment, housekeeping, hygiene facilities, medical surveillance, and training, among other requirements.
- California OSHA requires Department of Public Health Lead-Related Construction training if any lead related construction work in public buildings will exceed OSHA's permissible exposure limit (PEL) for lead.
- Disposal of all lead-containing paint and bulk materials is regulated at concentrations at or exceeding 1,000 ppm as stated in 40 Code of Federal Regulations (CFR) Part 263 - Land Disposal Regulations and Title 22, Division 4 Environmental Health of the California Administrative Code. Lead containing materials that exceed 50 ppm must be additionally analyzed to determine possible waste disposal restrictions with respect to lead. However, lead related work at any lead concentration is regulated under the OSHA statutes.

## 8. Recommendations to Implement Regulatory Requirements

### Asbestos

- Develop a performance abatement specification or work plan for the removal or impact of the ACMs identified in the survey that will likely be disturbed by the planned seismic improvement project. The purpose of an abatement specification is to clearly define the scope of work for more competitive and accurate bidding as well as to reduce the number of costly delays and change orders during the project.
- Conduct a pre-bid job-walk for abatement contractors in order to obtain the most competitive pricing.
- Retain a Certified Asbestos Consultant or Site Surveillance Technician to provide on-site construction supervision of the asbestos abatement contractor to ensure utilization of proper work practices as stated in the work plan or specification. The Consultant also ensures that all local, state and federal regulations are followed and that the project remains on schedule. The on-site Consultant generates documentation of contractor work practices and training, and asbestos air sampling results. The on-site Consultant also ensures that all asbestos materials are removed by the abatement contractor and properly manifested.
- Request the Asbestos Consultant to collect a sufficient number of air samples on a daily basis to validate that the abatement contractor is not causing any releases of airborne asbestos fibers outside their work area.
- Request the Asbestos Consultant to visually review the work of the abatement contractor to verify that all the ACMs are abated. If the work areas pass the visual clearance, then final air clearance samples are collected to ensure that the area is safe for re-occupancy, or unregulated work.
- Request a final written report outlining all activities that transpired throughout the course of the abatement project.

### Lead-Containing Paint

Lead containing debris that will be landfilled should be classified as hazardous waste if lead waste concentrations exceed either the total lead concentration or soluble lead concentration regulatory limits.

We recommend the following actions prior to the start of renovation:

- Use only trained workers for disturbance of building components containing lead. All demolition work should be performed in accordance with the OSHA Lead in Construction Standard, Title 8 CCR 1532.1. Removal of lead-based paint should be performed by Department of Public Health Lead Related Construction trained workers.

- Worker exposure, environmental monitoring, and proper engineering controls should be implemented throughout the lead related work.
- Contractor should adhere to OSHA and other applicable state and local regulations for worker protection, hazard communications, work practices, engineering controls and proper waste disposal.
- Proper waste stream categorization is required for the disposal of lead-containing materials such as paint debris, ceramic tile, and painted building components (intact) in accordance with the Department of Toxic Substance Control (DTSC). The disposal of lead-containing materials shall be coordinated with the landfill.

## **9. Limitations**

RGA warrants that the findings contained herein have been prepared in general accordance with accepted professional practices as applied by similar professionals in the community at the time of its preparation. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in this report.

The field and laboratory results reported herein are considered sufficient in detail and scope to determine the presence of ACMs and lead-containing paint identified in this report. The testing results represent a limited survey. The survey was limited to areas and materials in the building that will likely be impacted by the planned project. Other suspect asbestos and lead containing materials exist in the building that were not included in the scope of this survey. Also, note that this is a survey report and not an abatement specification. This document is not appropriate for competitive bidding or for use as an abatement specification.



## **Appendix 1**

### Laboratory Results and Chain of Custody - Asbestos



Report for:

**Ms. Karin Schroeter**  
**RGA Environmental, Inc.**  
1466 66th Street  
Emeryville, CA 94608

---

Regarding: Project: R1167404; Contre Costa College - C1067; 2600 Mission Bell, San Pablo, CA  
EML ID: 1554478

Approved by:

Dates of Analysis:  
Asbestos PLM: 06-14-2016 and 06-15-2016

Approved Signatory  
Dr. Kamashwaran Ramanathan

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

---

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: RGA Environmental, Inc.

Date of Sampling: 06-13-2016

C/O: Ms. Karin Schroeter

Date of Receipt: 06-14-2016

Re: R1167404; Contre Costa College - C1067; 2600 Date of Report: 06-15-2016

Mission Bell, San Pablo, CA

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Total Samples Submitted:** 24**Total Samples Analyzed:** 24**Total Samples with Layer Asbestos Content > 1%:** 9**Location: 1A, Silver Paint - Chiller Tower - Metal Exterior**

Lab ID-Version‡: 7205427-1

Sample Layers	Asbestos Content
Silver Paint	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 1B, Silver Paint - Chiller Tower - Metal Fan Cover**

Lab ID-Version‡: 7205428-1

Sample Layers	Asbestos Content
Silver Paint	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 1C, Silver Paint - Chiller Tower - Metal - Elec. Box**

Lab ID-Version‡: 7205429-1

Sample Layers	Asbestos Content
Silver Paint	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 2A, White Flange Caulk - Chiller Tower - West**

Lab ID-Version‡: 7205430-1

Sample Layers	Asbestos Content
Gray Caulk	2% Chrysotile
<b>Sample Composite Homogeneity:</b> Good	

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K 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.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: RGA Environmental, Inc.

Date of Sampling: 06-13-2016

C/O: Ms. Karin Schroeter

Date of Receipt: 06-14-2016

Re: R1167404; Contre Costa College - C1067; 2600 Date of Report: 06-15-2016

Mission Bell, San Pablo, CA

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 2B, White Flange Caulk - Chiller Tower - North**

Lab ID-Version‡: 7205431-1

Sample Layers	Asbestos Content
Gray Caulk	2% Chrysotile
Sample Composite Homogeneity: Good	

**Location: 2C, White Flange Caulk - Chiller Tower - East**

Lab ID-Version‡: 7205432-1

Sample Layers	Asbestos Content
Gray Caulk	2% Chrysotile
Sample Composite Homogeneity: Good	

**Location: 3A, Stucco Wall - Chiller Tower Room - South Wall - Wall to be Inspected**

Lab ID-Version‡: 7205433-1

Sample Layers	Asbestos Content
Gray Stucco	ND
Sample Composite Homogeneity: Good	

**Location: 3B, Stucco Wall - Chiller Tower Room - South Wall - Wall to be Inspected**

Lab ID-Version‡: 7205434-1

Sample Layers	Asbestos Content
Gray Stucco	ND
Sample Composite Homogeneity: Good	

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: RGA Environmental, Inc.

Date of Sampling: 06-13-2016

C/O: Ms. Karin Schroeter

Date of Receipt: 06-14-2016

Re: R1167404; Contre Costa College - C1067; 2600 Date of Report: 06-15-2016

Mission Bell, San Pablo, CA

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 3C, Stucco Wall - Exterior Wall - West Wall - Wall to be Inspected**

Lab ID-Version‡: 7205435-1

Sample Layers	Asbestos Content
Gray Stucco	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 4A, Flange Gaskets - Valves - Chiller Tower - Flange**

Lab ID-Version‡: 7205436-1

Sample Layers	Asbestos Content
Gray Gasket	50% Chrysotile
<b>Sample Composite Homogeneity:</b> Good	

**Location: 4B, Flange Gaskets - Valves - Chiller Rm - (Not Tower) Flange**

Lab ID-Version‡: 7205437-1

Sample Layers	Asbestos Content
Gray Gasket	30% Chrysotile
<b>Sample Composite Homogeneity:</b> Good	

**Location: 4C, Flange Gaskets - Mechanical Room - Valve Flange**

Lab ID-Version‡: 7205438-1

Sample Layers	Asbestos Content
Gray Gasket	70% Chrysotile
<b>Sample Composite Homogeneity:</b> Good	

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Client: RGA Environmental, Inc.

Date of Sampling: 06-13-2016

C/O: Ms. Karin Schroeter

Date of Receipt: 06-14-2016

Re: R1167404; Contre Costa College - C1067; 2600 Date of Report: 06-15-2016

Mission Bell, San Pablo, CA

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 5A, Concrete Pad - Chiller Tower Rm**

Lab ID-Version‡: 7205439-1

Sample Layers	Asbestos Content
Gray Concrete with Paint	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 5B, Concrete Pad - Chiller Rm**

Lab ID-Version‡: 7205440-1

Sample Layers	Asbestos Content
Gray Concrete with Paint	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 5C, Concrete Pad - Mechanical Room - Pad Under Pump**

Lab ID-Version‡: 7205441-1

Sample Layers	Asbestos Content
Gray Concrete with Paint	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 6A, Drywall/Joint Compound - Chiller Rm - Partition**

Lab ID-Version‡: 7205442-1

Sample Layers	Asbestos Content
White Drywall	ND
White Joint Compound	ND
Tape	ND
White Compound with Paint	ND
<b>Composite Non-Asbestos Content:</b>	20% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

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Client: RGA Environmental, Inc.

Date of Sampling: 06-13-2016

C/O: Ms. Karin Schroeter

Date of Receipt: 06-14-2016

Re: R1167404; Contre Costa College - C1067; 2600 Date of Report: 06-15-2016

Mission Bell, San Pablo, CA

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 6B, Drywall/Joint Compound - Chiller Rm - Perimeter Wall (West)**

Lab ID-Version‡: 7205443-1

Sample Layers	Asbestos Content
White Drywall	ND
White Joint Compound	ND
Tape	ND
White Compound with Paint	ND
<b>Composite Non-Asbestos Content:</b>	20% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

**Location: 6C, Drywall/Joint Compound - Mech. Room**

Lab ID-Version‡: 7205444-1

Sample Layers	Asbestos Content
White Drywall	ND
White Joint Compound	ND
Tape	ND
White Compound with Paint	ND
<b>Composite Non-Asbestos Content:</b>	20% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

**Location: 7A, White and SI Mastic on End of Fiberglass and SI - Chiller Rm - CW Supply**

Lab ID-Version‡: 7205445-1

Sample Layers	Asbestos Content
Off-White Mastic	2% Chrysotile
<b>Sample Composite Homogeneity:</b>	Good

**Location: 7B, White and SI Mastic on End of Fiberglass and SI - Chiller Rm - CW Return**

Lab ID-Version‡: 7205446-1

Sample Layers	Asbestos Content
Off-White Mastic	2% Chrysotile
<b>Composite Non-Asbestos Content:</b>	10% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

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Client: RGA Environmental, Inc.

Date of Sampling: 06-13-2016

C/O: Ms. Karin Schroeter

Date of Receipt: 06-14-2016

Re: R1167404; Contre Costa College - C1067; 2600 Date of Report: 06-15-2016

Mission Bell, San Pablo, CA

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 7C, White and SI Mastic on End of Fiberglass and SI - Mechanical Room - CW****Supply - After Pump**

Lab ID-Version‡: 7205447-1

Sample Layers	Asbestos Content
Off-White Mastic	2% Chrysotile
<b>Sample Composite Homogeneity:</b> Good	

**Location: 8A, Blk, Neoprene - Glue (Neoprene Painted Green) - Chiller Room - On Tank -  
(Part of Chiller Equipment)**

Lab ID-Version‡: 7205448-1

Sample Layers	Asbestos Content
Black Non-Fibrous Material with Paint	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 8B, Blk, Neoprene - Glue (Neoprene Painted Green) - Chiller Room - On Tank -  
(Part of Chiller Equipment)**

Lab ID-Version‡: 7205449-1

Sample Layers	Asbestos Content
Black Non-Fibrous Material with Paint	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 8C, Blk, Neoprene - Glue (Neoprene Painted Green) - Chiller Room - On Pipe -  
(Part of Chiller Equipment)**

Lab ID-Version‡: 7205450-1

Sample Layers	Asbestos Content
Black Non-Fibrous Material with Paint	ND
<b>Sample Composite Homogeneity:</b> Good	

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40PLM



001554478

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## ACM BULK SAMPLE DATA SHEET

- ☒ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

Missouri Bell

PAGE 1 OF 1

Project Name/ Address/ Building No. Contra Costa College - C 1067, 2600 Mission, San Pablo, CAProject# 021167404 Sampled By: R. Calhoun Sampling Date: 6/13/16Sample(s) sent to: ☐ RGA ☐ EMSL ☐ Other TAT ☐ Rush ☒ 24HRS ☐ 3-5 days

\*\*\*FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)\*\*\*

\*\*\*ADDITIONAL REPORT RECIPIENT(S):\*\*\*

HM#	Material Description	Sample Location & Material Location	Quantity:
	<u>Silver Paint</u>		
1A	Chiller tower - metal exterior		2
1B	metal Fan tower		3
1C	metal - Elec. Box		
	<u>White Flange Can 1K</u>		
2A	Chiller tower - west		
2B	North		
2C	East		
	<u>Stucco wall</u>		
3A	Chiller tower Rm - South wall - wall to be inspected		
3B	South wall		
3C	Exterior wall - west wall		
	<u>Flange Gaskets (Valves)</u>		
4A	Chiller tower - Flange		
4B	Chiller Rm - (not tower) Flange		
4C	Mechanical Room - Valve Flange		

Relinquished By: Rene Calhoun Signature: R. CalhounReceived By: W. Frieszell Signature: W. FrieszellRelinquished By: W. Frieszell Signature: W. FrieszellReceived By: W. Frieszell Signature: W. FrieszellDate/Time: 6/13/16Date/Time: 6/13/16Date/Time: 6/13/16Date/Time: 6/14/16 1005

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 regils@terracon.com  
☐ PM - M. Bishop  
 mbishop@terracon.com

## ACM BULK SAMPLE DATA SHEET

- ☐ PLM Analysis (Analyze all samples)  
☐ Stop Analysis at First Positive  
☐ Point Count Analysis (400-point)

1311 / PAGE 01 OF 01

Project Name/ Address/ Building No. Contra Costa College - C1067, 2600 Mission, San Pablo, CA  
 Project# 12167404 Sampled By: R. LaRue Sampling Date: 6/13/16  
 Sample(s) sent to: ☐ RGA ☐ EMSL ☒ Other TAT ☐ Rush ☒ 24HRS ☐ 3-5 days  
 \*\*\* **FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)** \*\*\*  
 \*\*\* **ADDITIONAL REPORT RECIPIENT(S):** \*\*\*

HMH#	Material Description	Quantity:
Sample ID	Sample Location & Material Location	
5A	Chiller tower Rm	
5B	Chiller Rm	
5C	Mechanical Room - Steel Pad under Pump	
HMH#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
6A	Chiller Room - Partition	
6B	Chiller Room - Perimeter Wall (West)	
6C	Mech. Room	
HMH#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
7A	Chiller Rm - Ch Supply	
7B	Chiller Rm - Ch Return	
7C	Mechanical Room - Ch Supply - After Pump	
HMH#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
8A	Chiller Room on tank - (Part of Chiller Equipment)	
8B	on tank - "	
8C	on Pipe - "	



Relinquished By: Remy LaRue Signature: [Signature] Date/Time: 6/13/16  
 Received By: [Signature] Signature: [Signature] Date/Time: 6/13/16  
 Relinquished By: [Signature] Signature: [Signature] Date/Time: 6/14/16 1005  
 Received By: [Signature] Signature: [Signature] Date/Time: 6/14/16 1005

## **Appendix 2**

### Laboratory Results and Chain of Custody - Lead



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

## Environmental Chemistry Analysis Report

**QuanTEM Set ID:** 264975  
**Date Received:** 06/14/16  
**Received By:** Rachel Brooks  
**Date Sampled:**  
**Time Sampled:**  
**Analyst:** CR  
**Date of Report:** 6/15/2016

**Client:** RGA Environmental  
K. Pilgrim  
1466 66th Street  
Emeryville, CA 94608

**Acct. No.:** C018

**Project:** Contra Costa College - C1067,21001

**Location:** Mission Bell, San Pablo, CA

**Project No.:** R1167404

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	Pb-1	Paint	Lead	<0.00494	0.00494	%	06/15/16 16:15	P EPA 7000B (1)
002	Pb-2	Paint	Lead	<0.00488	0.00488	%	06/15/16 16:15	P EPA 7000B (1)
003	Pb-3	Paint	Lead	0.0825	0.00493	%	06/15/16 16:15	P EPA 7000B (1)
004	Pb-4	Paint	Lead	<0.00498	0.00498	%	06/15/16 16:15	P EPA 7000B (1)
005	Pb-5	Paint	Lead	<0.00498	0.00498	%	06/15/16 16:15	P EPA 7000B (1)
006	Pb-6	Paint	Lead	<0.00496	0.00496	%	06/15/16 16:15	P EPA 7000B (1)
007	Pb-7	Paint	Lead	<0.00495	0.00495	%	06/15/16 16:15	P EPA 7000B (1)
008	Pb-8	Paint	Lead	<0.00491	0.00491	%	06/15/16 16:15	P EPA 7000B (1)
009	Pb-9	Paint	Lead	0.00522	0.00488	%	06/15/16 16:15	P EPA 7000B (1)

Authorized Signature:

Cherry Rossen, Technical Manager

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

# Supplemental Report

## QAQC Results

**QA ID:** 14232

**Test:** Lead

**Date:** 6/15/2016

**Matrix:** Paint

**Lab Number:** 264975

**Approved By:** Cherry Rossen

**Date Approved:** 6/15/2016

### Notes:

### Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

### Standards Data:

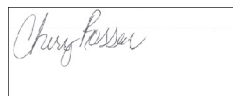
Standard	Low Limit	Obtained	High Limit
CCV	4.5	4.6218	5.5
FCV	4.5	4.6198	5.5
ICV	0.9	1	1.1

### Duplicate Data:

### Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
264975-002	0.000	2.000	1.664	83.2			
LCS-P3	0.000	1.991	1.819	91.3	1.916	96.2	5.2

Authorized Signature:



Cherry Rossen, Technical Manager

10-Pb

2/6/1975

"Mission Bell"

Terracon

<input type="checkbox"/> PM - S. Steiner spsteiner@terracon.com	<input type="checkbox"/> PM - K. Schroeter kmschroeter@terracon.com	<input checked="" type="checkbox"/> PM - K. Pilgrim kmpilgrim@terracon.com	<b>LEAD PAINT SAMPLE DATA SHEET</b> * Lead Analysis ___ Flame AA (EPA 7420) ___ TTLC  PAGE ___ OF ___
<input type="checkbox"/> PM - M. Bryant mvbryant@terracon.com	<input type="checkbox"/> PM - T. Kattchee takattchee@terracon.com	<input type="checkbox"/> PM - B. Gils regils@terracon.com	
<input type="checkbox"/> PM - M. Benefield msbenefield@terracon.com	<input type="checkbox"/> PM D. Ufferfilge dufferfilge@terracon.com	<input type="checkbox"/> PM - M. Benefield msbenefield@terracon.com	
<input type="checkbox"/> PM - M. Bishop mrbishop@terracon.com	<input type="checkbox"/> PM - W. Frieszell wmfrieszell@terracon.com		

Project Name/ Address/ Building No. Contra Costa College - C1067, 2100 ~~1st St~~ Mission Bell San Pablo, CAProject# R1167404 Sampled By: R. Catlow Sampling Date: 6/13/16Sample(s) sent to: ☐ RGA ☐ EMSL ☐ Other \_\_\_\_\_ TAT ☐ Rush ☒ 24HRS ☐ 3-5 days

\*\*\*FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)\*\*\*

\*\*\*ADDITIONAL REPORT RECIPIENT(S): \_\_\_\_\_\*\*\*

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
Pb-1	Paint Color: <u>Silver Paint</u> Substrate: <u>Metal</u> Component: <u>Chiller tower</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Chiller tower Rm - Chiller tower</u>	Fair ✓
Pb-2	Paint Color: <u>tan</u> Substrate: <u>Stucco</u> Component: <u>Exterior wall</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Chiller tower Rm - Chiller stucco wall</u>	Good ✓
Pb-3	Paint Color: <u>tan</u> Substrate: <u>Metal</u> Component: <u>Door #1</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Chiller tower - Access Door</u>	Poor ✓
Pb-4	Paint Color: <u>Green</u> Substrate: <u>Metal</u> Component: <u>Chiller</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Chiller Rm - Chiller Equipment</u>	Good ✓
Pb-5	Paint Color: <u>Blue</u> Substrate: <u>Metal</u> Component: <u>Pipe</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Chiller Rm - Pipe</u>	Good ✓

Relinquished By: Randy SaldaReceived By: Handi

Received By: \_\_\_\_\_

Signature: [Signature]Signature: [Signature]

Signature: \_\_\_\_\_

Date/Time: 6/13/16Date/Time: 6/13/16

Date/Time: \_\_\_\_\_



10-Pb

264975  
Terracon

<input type="checkbox"/> PM - S. Steiner spsteiner@terracon.com	<input type="checkbox"/> PM - K. Schroeter kmschroeter@terracon.com	<input checked="" type="checkbox"/> PM - K. Pilgrim kmpilgrim@terracon.com	<b>LEAD PAINT SAMPLE DATA SHEET</b> * Lead Analysis Flame AA (EPA 7420) _ TTLC PAGE _ OF _
<input type="checkbox"/> PM - M. Bryant mvbryant@terracon.com	<input type="checkbox"/> PM - T. Kattchee takattchee@terracon.com	<input type="checkbox"/> PM - B. Gils regils@terracon.com	
<input type="checkbox"/> PM - M. Benefield msbenefield@terracon.com	<input type="checkbox"/> PM D. Ufferfilge dufferfilge@terracon.com	<input type="checkbox"/> PM - M. Benefield msbenefield@terracon.com	
<input type="checkbox"/> PM - M. Bishop mrbishop@terracon.com	<input type="checkbox"/> PM - W. Frieszell wmfrieszell@terracon.com		

Project Name/ Address/ Building No. Contra Costa College - 1067, 2600 Mission St. San Pablo, CAProject# R1167404 Sampled By: R. C. Y. Howe II Sampling Date: 6/13/16Sample(s) sent to: ☐ RGA ☐ EMSL ☐ Other \_\_\_\_\_ TAT ☐ Rush ☒ 24HRS ☐ 3-5 days\*\*\*FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)\*\*\*\*\*\*ADDITIONAL REPORT RECIPIENT(S):\*\*\*

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
Pb6	Paint Color: <u>Grey</u> Substrate: <u>Dry wall</u> Component: <u>wall</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Chiller Rm.</u>	<u>Good</u>
Pb7	Paint Color: <u>Grey</u> Substrate: <u>Concrete</u> Component: <u>Floor</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>South Mech Room (Chiller Rm) Floor</u>	<u>Poor - Damaged</u>
Pb8	Paint Color: <u>White Caulk</u> Substrate: <u>metal</u> Component: <u>Chiller tower Flange</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Chiller tower - Caulk Between Metal Flanges</u>	
Pb9	Paint Color: <u>Green</u> Substrate: <u>Neoprene</u> Component: <u>Chiller tank</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Chiller Room - Chiller equipment - Neoprene on Holding tank</u>	
Pb	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	

Relinquished By: Remy G. CalderReceived By: Heidi

Received By: \_\_\_\_\_

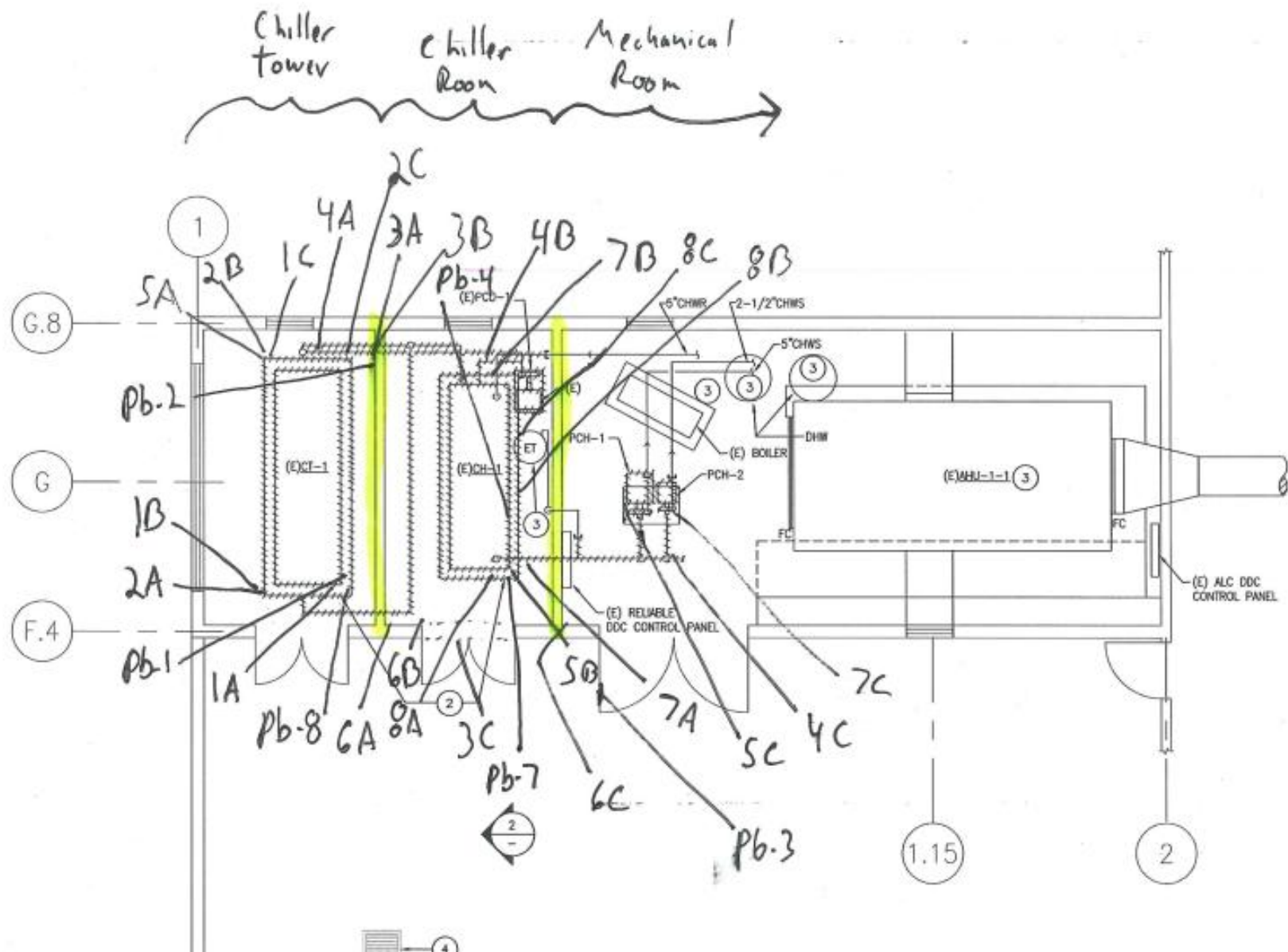
Signature: [Signature]Signature: [Signature]Signature: [Signature]Date/Time: 6/13/16Date/Time: 6/13/16

Date/Time: \_\_\_\_\_


### **Appendix 3**

#### Sample Location Figure





Not to Scale

	Applied Arts Sample Locations		Contra Costa Community College San Pablo, California		N ↑  Figure 1
	Survey Date: 6/13/2016	PROJECT NO.:	R1167404		

## **Appendix 4**

### Inspector Certificates

State of California Department of Public Health

Lead-Related Construction Certificate	Certificate Type	Expiration Date
	Inspector/Assessor	10/25/2016
	★ Project Monitor	10/25/2016

Remington R. Caldwell ID #: 15307



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

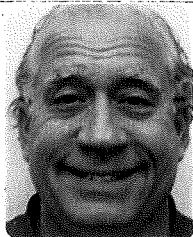
**Remington R Caldwell**

Name

Certification No. **97-2180**

Expires on **05/06/17**

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.



## **APPENDIX F**

### **LICENSES AND CERTIFICATIONS**

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



**Remington R Caldwell**  
Name

Certification No. **07-2180**

Expires on **05/06/21**



This certification was issued to 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

**INDIVIDUAL:**



**Remington Caldwell**

**CERTIFICATE TYPE:**

Lead Inspector/Assessor  
Lead Project Monitor

**NUMBER:**

LRC-00002470  
LRC-00002469

**EXPIRATION DATE:**

10/25/2020  
10/25/2020

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at [www.cdph.ca.gov/programs/clppb](http://www.cdph.ca.gov/programs/clppb) or calling (800) 597-LEAD.

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

**Kenneth McRae Pilgrim**

Name

Certification No. **03-3503**

Expires on **12/17/20**

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.

