

COUNTY OF ALAMEDA

ADDENDUM No. 1

to

ALAMEDA COUNTY BID #902109

for

LAKESIDE BUILDING SECURITY IMPROVEMENTS

This County of Alameda, General Services Agency (GSA), Addendum has been electronically issued to potential bidders via e-mail. This Addendum is also posted on the GSA Contracting Opportunities website located at https://gsa.acgov.org/do-business-with-us/contracting-opportunities/



Alameda County is committed to reducing environmental impacts across our entire supply chain. If printing this document, please print only what you need, print double-sided, and use recycled-content paper

County of Alameda, General Services Agency Bid No. 902109 Addendum No. 1

TO ALL PROSPECTIVE BIDDERS for the above project, notice is hereby given that the following changes, modifications, corrections, clarifications, and additions, as herein set forth, shall apply to the specifications herein and shall be made part thereof and subject to all requirements as if originally specified or drawn. **Receipt of this Addendum No. 1 must be acknowledged on the Document 00 41 13 <u>Bid Form</u>, Page 29.**

Below are the following items issued as part of Addendum No. 1:

<u>ITEM</u>	DESCRIPTION
1.	Exhibit B – Existing Conditions Reports
2.	Exhibit C – Insurance Requirements
3.	Exhibit D - Epoxy Terrazzo Specifications
4.	Exhibit E - Optical Turnstile Specifications
5.	Exhibit F - Sample Phasing Schedule



EXHIBIT B

EXISTING CONDITIONS REPORTS

The following existing conditions reports are attached included as part of this Exhibit D:

1. Bulk Asbestos Analysis – Polarized Light Microscopy (PLM) Reports

BULK ASBESTOS ANALYSIS - POLARIZED LIGHT MICROSCOPY (PLM)



1033

Matthew Reed County of Alameda - GSA Engineering & Environmental Management Department 1401 Lakeside Drive, Suite 800 Oakland, CA 94612

PROJECT:

LAKESIDE PLAZA 1401 LAKESIDE DR. **BLDG. NO. 04430** OAKLAND, CA

Micro Log In

291880

Total Samples Date Sampled

05/25/2022

Date Received

05/25/2022

Date Analyzed

05/25/2022

SAMPLE IDENTIFICATION

ASBESTOS QUANTITY (AREA %) / TYPES / LAYERS

If absent, ND Is Reported (No Asbestos Detected)

DOMINANT OTHER MATERIALS

Client #:	04430-220525-1	A		
	91880-01 Ana DUT - TAN - 1ST FLOOR - LOB	llyst: SS BK BBY FLOOR	ND	NFM: GLASS FRAGMENTS, BINDER.
Client #:	04430-220525-18	3		
	91880-02 Ana DUT - TAN - 1ST FLOOR - LOB	llyst: SS BBY FLOOR	ND	NFM: GLASS FRAGMENTS, BINDER.
STONE T	04430-220525-2 <i>J</i> 91880-03 Ana ILE - VARIONS - OFF-WHITE DR - LOBBY FLOOR	A lyst: SS	ND	NFM: GLASS FRAGMENTS, BINDER.
Client #:	04430-220525-28	3		
STONE T	91880-04 Ana ILE - VARIONS - OFF-WHITE DR - LOBBY FLOOR	lyst: SS	ND	NFM: GLASS FRAGMENTS, BINDER.
Client #:	04430-220525-34			2 % CELLULOSE
SETTING	91880-05 Anal COMPOUND - GRAY DR - LOBBY FLOOR	lyst: SS	ND	NFM: ROCK FRAGMENTS, CARBONATE, BINDER

Technical Supervisor:

5/25/2022

Baojia Ke, Ph.D.

Date Reported

NVLAP Lab Code 101872-0 (TESTING). Analyses use Polarized Light Microscopy (PLM), Micro Analytical SOP PLM-101. Basic techniques follow EPA – Appendix E to Subpart E of 40 CFR Part 763; Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (originally published 1982), and EPA-600/R93-116 (1993). The 1993 method covers all types of bulk materials and is based on the 1982 Method, with improved analytical techniques for layered samples as required for NESHAP compliance. Asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (much less than 196) may not be reliable or reproducible by PLM. Weight % cannot be determined by PLM. Asbestos with diameter below ~1 µm may not be detected by PLM. Absestos in dust, debris, and some compact materials, including floor titles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Interferences may prevent detection of small asbestos probled telemination of some optical properties. Tremolite-asbestos or actionally individual policy i

BULK ASBESTOS ANALYSIS - POLARIZED LIGHT MICROSCOPY (PLM)



1033

Matthew Reed County of Alameda - GSA Engineering & Environmental Management Department 1401 Lakeside Drive, Suite 800 Oakland, CA 94612 PROJECT:

LAKESIDE PLAZA 1401 LAKESIDE DR. BLDG. NO. 04430 OAKLAND, CA Micro Log In

291880

Total Samples

05/25/2022

6

Date Sampled
Date Received

05/25/2022

Date Analyzed

05/25/2022

SAMPLE IDENTIFICATION

ASBESTOS QUANTITY (AREA %) / TYPES / LAYERS

If absent, ND is Reported (No Asbestos Detected)

DOMINANT OTHER MATERIALS

Client #:	04430-220525-3B		2 % CELLULOSE
Micro #: 291880 SETTING COMP 1ST FLOOR - LO	OUND - GRAY	ND	NFM: ROCK FRAGMENTS, CARBONATE, BINDER

Technical Supervisor:

5/25/2022

Baojia Ke, Ph.D.

Date Reported

NVLAP Lab Code 101872-0 (TESTING). Analyses use Polarized Light Microscopy (PLM), Micro Analytical SOP PLM-101. Basic techniques follow EPA – Appendix E to Subpart E of 40 CFR Part 763; Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (originally published 1982), and EPA-600/R93-116 (1993). The 1993 method covers all types of bulk materials and is based on the 1982 Method, with improved analytical techniques for layered samples as required for NESHAP compliance. Asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (much less than 1%) may not be reliable or reproducible by PLM. Weight % cannot be determined by PLM. Asbestos with diameter below ~1 µm may not be detected by PLM. Absence of asbestos in dust, debris, and some compact materials, including floor tiles, cannot be conclusively established by PLM and should be confirmed by Transmission Electron Microscopy (TEM). Interferences may prevent detection of some optical properties. Tremolite-asbestos or actinoite- asbestos may be indistinguishable by PLM from some similar, non-regulated amphibose (e.g. the "Libby Amphiboles" richterite and winchite), and should be confirmed by TEM. The lower quantitation limit (reporting limit) of PLM estimation is 1%. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos; however, reliable determination of asbestos percent at this level cannot be done by PLM estimation; PLM Point Counting or TEM weight percent analysis are recommended. Only dominant non-asbestos materials (fibrous and non-fibrous) are listed. This analysis shall not be construed as conclusive for the presence of any reported materials other han asbestos, or for the absence of any non-asbestos material. Common interferences include, but are not limited to: cellulose, fibrous glass, other man-made vitreous fibers, synthetic fibers, elongate fragments of calcium suitate, taic, wollationite, animal hair, and other miscellaneous elongat

BULK SAMPLE TRACKING FORM

291880

Matthew Real COUNTY OF ALAMEDA, GSA-CPED Contact 1401 LAKESIDE DRIVE, STE. 800 Analysis Type OAKLAND, CA 94612 TAT hr 12hr 24hr 48hr >48hr FACILITY NAME Lakeside Plaza BLDG. NO. 04430 1401 Lakeside Dr., Oakland **FACILITY ADDRESS** Matthew Reed SAMPLE TAKEN BY 5/25/22 Tile SAMPLE NUMBER 04430-220525 - 1A Growt (Bldg # - yymmdd - #)* MATERIAL TYPE. MATERIAL DESC. SIZE COLOR tan 1St Floor SAMPLE LOCATION FLOOR ROOM NO. AREA Floor SAMPLE NUMBER Tile Grout MATERIAL TYPE. -1B MATERIAL DESC. SIZE COLOR tan 1st Floor SAMPLE LOCATION FLOOR* ROOM NO: AREA Lobby Floor SAMPLE NUMBER Stone Tile -2A MATERIAL TYPE. off. White - Varions MATERIAL DESC. SIZE COLOR ROOM NO. 1st Floor SAMPLE LOCATION **FLOOR** AREA Lobby Floor RELINOUISHED BY DATE/TIME 5/25/22 10:12 A

Distribution:

RECEIVED BY

1

1) Lab

2) GSA-CPED QIC 26006

3) Retain One Copy for your files

Lab must submit this form and test results to

DATE/TIME

GSA-CPED, 1401 Lakeside Dr., Suite 800

Oakland, CA 94612, attn: Matthew Reed,

Before invoice will be paid.

PG. 1 of 2

104

^{* -} Sample numbers are generated by Building Number followed by the date, year, month, day, and then sample number. For example, a sample collected from Building 1901 on April 30, 1999, would be numbered 1901-990430-01. Please adhere to this numbering method. For samples other than asbestos, insert a sample type indicator after the date and before the sample number. For example 1901-990430-Pb-01, would be a lead sample.

BULK SAMPLE TRACKING FORM

Matthew Reco COUNTY OF ALAMEDA, GSA-CPED Contact 1401 LAKESIDE DRIVE, STE. 800 Analysis Type OAKLAND, CA 94612 TAT hr 12hr 24hr 48hr >48hr FACILITY NAMES Lakeside Plaza 04430 **FACILITY ADDRESS** 1401 Lakeside Dr. Oakland Matthew Reed SAMPLE TAKEN BY 5/25/22 SAMPLE NUMBER 04430-220525-2B Stone Tile (Bldg # - yymmdd - #)* MATERIAL TYPE. off-White Vacions MATERIAL DESC. SIZE COLOR 1st Floor FLOOR SAMPLE LOCATION ROOM NO. Lobby AREA Floor SAMPLE NUMBER MATERIAL TYPE -3A MATERIAL DESC. SIZE COLOR 15+ Floor SAMPLE LOCATION FLOOR ROOM NO :-Floor AREA SAMPLE NUMBER MATERIAL TYPE. -38 SIZE MATERIAL DESC. COLOR Gray 1st Floor FLOOR SAMPLE LOCATION ROOM NO. Lobby Floor RELINQUISHED BY DATE/TIME 10:12A RECEIVED BY DATE/TIME

Distribution:

- 1) Lab
- 2) GSA-CPED QIC 26006
- 3) Retain One Copy for your files

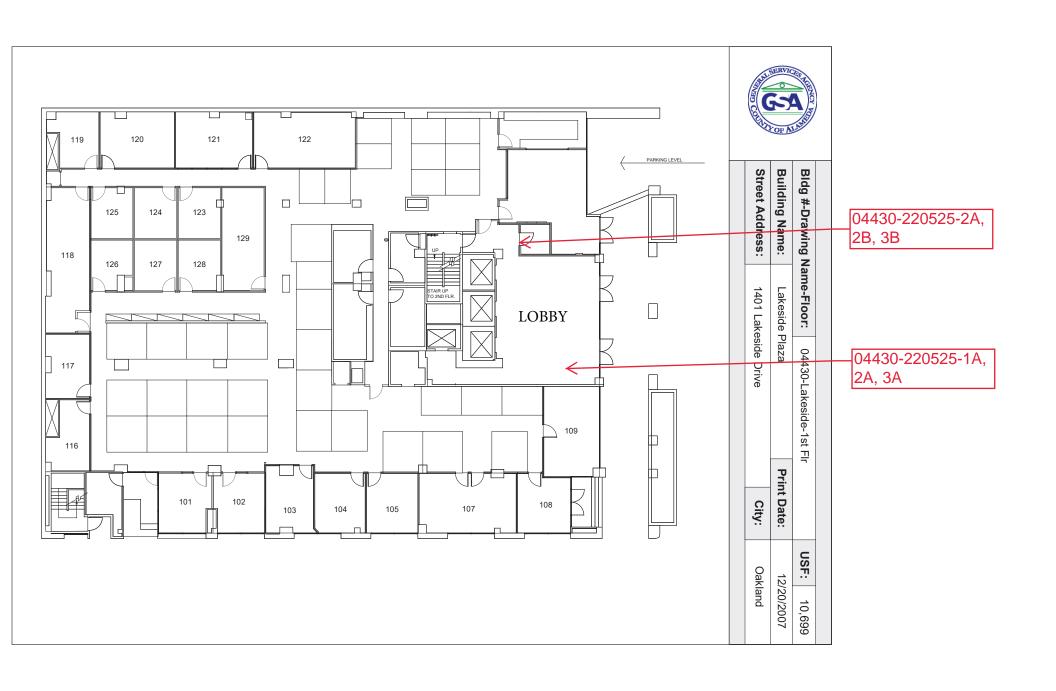
Lab must submit this form and test results to

GSA-CPED, 1401 Lakeside Dr., Suite 800

Oakland, CA 94612, attn: Matthew Reed,

Before invoice will be paid.

^{* -} Sample numbers are generated by Building Number followed by the date, year, month, day, and then sample number. For example, a sample collected from Building 1901 on April 30, 1999, would be numbered 1901-990430-01. Please adhere to this numbering method. For samples other than asbestos, insert a sample type indicator after the date and before the sample number. For example 1901-990430-Pb-01, would be a lead sample.





4/17/08 4/17/08

MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

Page 1 of 3

1023 Steff Steiner RGA Environmental, Inc. 1466 66th Street Emeryville, CA 94608

PROJECT:

Micro Log In

102386

1401 LAKESIDE DRIVE 12TH FLOOR PROJECT NO. COAL17358

Total Samples 15

Date Sampled 08/24/2007

Date Received 08/24/2007

Date Analyzed 08/27/2007

SAMPLE IDENTIFICATION

ASBESTOS INFORMATION
QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES

DOMINANT OTHER MATERIALS

Client: 1401-12-1A		
Micro: 102386-01 Analyst: KM TAN MASTIC FOR BLUE CARPET CLOSET AREA	NONE DETECTED	Matrix Type: SYNTHETIC MATERIAL
Client		
Client: 1401-12-1B Micro: 102386-02	NONE DETECTED	
FRONT OFFICE		Matrix Type: SYNTHETIC MATERIAL
Client: 1401-12-1C		
Micro: 102386-03 Analyst: KM TAN MASTIC FOR BLUE CARPET NORTHEAST OFFICE	NONE DETECTED	Matrix Type: SYNTHETIC MATERIAL
Client: 1401-12-2A		20 % CELLULOSE
Micro: 102386-04 Analyst: KM COVE BASE, 4", TAN MASTIC CLOSET AREA	MASTIC (TAN): NONE DETECTED BACKING: NONE DETECTED	20 % CELLULOSE
CLOSET AREA		Matrix Type: SYNTHETIC MATERIAL
Client: 1401-12-2B		20 % CELLULOSE
Micro: 102386-05 Analyst: KM COVE BASE, 4", TAN MASTIC FRONT OFFICE	MASTIC (TAN): NONE DETECTED BACKING: NONE DETECTED	LO NO OLLLOLOGE
THOM OTHER	и .	Matrix Type: SYNTHETIC MATERIAL

Technical Supervisor: Saudw HLW 8/27/2007
Frank Raviola, Laboratory Director Date Reported

Asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (much less than 1%) may not be reliable or reproducible by PLM. Weight % cannot be determined by PLM. Asbestos with diameter below ~1 µm may not be detected by PLM. Absence of asbestos in dust, debris, and some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). The lower quantitation limit (reporting limit) of PLM estimation is 1%. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos; however, reliable determination of asbestos percent at this level cannot be done by PLM estimation; PLM Polit Counting or TEM is recommended. Only dominant non-asbestos materials are indicated. Interferences may prevent detection of small asbestos tibers, and hinder determination of some optical properties. Sample heterogeneity is indicated by listing more than one distinct layer or material on the report. Layers are analyzed separately when feasible; if asbestos is detected, asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite responsible for identification and description of bulk materials listed on field forms. Laboratory descriptions may differ from those given by customers. Quality Control (QC) Codes: A1/A2 = results within acceptance limits; B = no asbestos in lab blank; R = resolved after review. Accreditation by NIST / NVLAP (Lab Code 101872-0). CA ELAP Certification #1037. EPA 1993 method is based on EPA interim Method (1982), with improved analytical techniques. Unless otherwise stated herein, all samples were received in acceptable condition for analysis. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report shall not be reproduced without the approval of Micro Analytical Laboratories, Inc., shall not be reproduced except in full, an

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

Page 2 of 3

1023 Steff Steiner RGA Environmental, Inc. 1466 66th Street Emeryville, CA 94608

PROJECT:

1401 LAKESIDE DRIVE 12TH FLOOR PROJECT NO. COAL17358 Micro Log In

102386

Total Samples 1

Date Sampled 08/24/2007

Date Received 08/24/2007

Date Analyzed 08/27/2007

SAMPLE IDENTIFICATION

ASBESTOS INFORMATION
QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES

DOMINANT OTHER MATERIALS

Client: 1401-12-2C Micro: 102386-06 Analyst: KM COVE BASE, 4", TAN MASTIC NORTHEAST OFFICE	MASTIC (TAN): NONE DETECTED BACKING: NONE DETECTED	20 % CELLULOSE Matrix Type: SYNTHETIC MATERIAL
Client: 1401-12-3A Micro: 102386-07 Analyst; KM DRYWALL WITH TAPING COMPOUND CLOSET AREA	DRYWALL: NONE DETECTED TAPING COMPOUND: NONE DETECTED	10 % CELLULOSE 3 % FIBROUS GLASS Matrix MIXED CARBONATE - Type: GYPSUM
Client: 1401-12-3B Micro: 102386-08 Analyst; KM DRYWALL WITH TAPING COMPOUND NORTHEAST OFFICE	DRYWALL: NONE DETECTED TAPING COMPOUND: NONE DETECTED	10 % CELLULOSE 3 % FIBROUS GLASS Mairix MIXED CARBONATE - Type: GYPSUM
Client: 1401-12-3C Micro: 102386-09 Analyst: KM DRYWALL WITH TAPING COMPOUND FRONT OFFICE	DRYWALL: NONE DETECTED TAPING COMPOUND: NONE DETECTED	10 % CELLULOSE 3 % FIBROUS GLASS Matrix MIXED CARBONATE - Type: GYPSUM
Client: 1401-12-3A Micro: 102386-10 COVE BASE MASTIC FILE ROOM FOR HR	MASTIC: NONE DETECTED BACKING: NONE DETECTED	20 % CELLULOSE Matrix Type: SYNTHETIC MATERIAL

Technical Supervisor: Saudu Jew 8/27/2007
Frank Raviola, Laboratory Director Date Reported

Asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (much less than 1%) may not be reliable or reproducible by PLM. Asbestos with diameter below ~1 μm may not be detected by PLM. Absence of asbestos in dust, debris, and some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). The lower quantitation limit (reporting limit) of PLM estimation is 1%. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos; however, reliable determination of asbestos percent at this level cannot be done by PLM estimation; PLM Point Counting or TEM is recommended. Only dominant non-asbestos materials are indicated. Interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Sample heterogeneity is Indicated by listing more than one distinct layer or material on the report. Layers are analyzed separately when feasible; if asbestos is detected, asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages are applicable only to waliboard / joint compound systems; compositing is based on customers' descriptions of material as "joint compound". Customers are solely responsible for identification and description of bulk materials listed on fleid forms. Laboratory descriptions may differ from those given by customers. Quality Control (QC) Codes: A1/A2 = results within acceptance limits; B = no asbestos in lab blank; R = resolved after review. Accreditation by NIST / NVLAP (Lab Code 101872-0). CA ELAP Certification #1037. EPA 1993 method is based on EPA Interim Method (1982), with improved analytical techniques. Unless otherwise stated herein, all samples were received in acceptable condition for analysis. This report must not be used to claim product endorsement by NIST or any U.S. Government ag

Page 3 of 3

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

1023 Steff Steiner RGA Environmental, Inc. 1466 66th Street Emeryville, CA 94608

PROJECT:

Micro Log In

102386

1401 LAKESIDE DRIVE 12TH FLOOR

Total Samples 15

Date Sampled 08/24/2007

PROJECT NO. COAL17358

Date Received 08/24/2007

Date Analyzed 08/27/2007

SAMPLE IDENTIFICATION

ASBESTOS INFORMATION

QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES

DOMINANT OTHER MATERIALS

· · · · · · · · · · · · · · · · · · ·				
Client: 1401-12-3B	4 1 4 1514	MASTIC: NONE DETECTED	20 % CELLULOSE	
Micro: 102386-11 COVE BASE MASTIC	Analyst: KM	BACKING: NONE DETECTED		
SOUTHWEST CORNER OF ROOM	M		Matrix Type: SYNTHETIC MATERIAL	
Client: 1401-12-3C			20 % CELLULOSE	
Micro: 102386-12 COVE BASE MASTIC	Analyst: KM	MASTIC: NONE DETECTED BACKING: NONE DETECTED	25 % 5222532	
		>	Matrix Type: SYNTHETIC MATERIAL	
Client: 1401-12-5A				
Micro: 102386-13 CARPET MASTIC FILE ROOM HR	Analyst: KM	NONE DETECTED		
TEC T			Matrix Type: SYNTHETIC MATERIAL	
Client: 1401-12-5B				
Micro: 102386-14	Analyst: KM	NONE DETECTED		
CARPET MASTIC SOUTHWEST CORNER			Matrix Type: SYNTHETIC MATERIAL	
Client: 1401-12-5C				
Micro: 102386-15	Analyst: KM	MASTIC: NONE DETECTED		
CARPET MASTIC NORTH SIDE		LEVELING COMPOUND: NONE DETECTED	·	
			Matrix CARBONATE Type: SYNTHETIC MATERIAL	

Technical Supervisor:

OF Frank Raviola, Laboratory Director Date Reported

Asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (much less than 1%) may not be reliable or reproducible by PLM. Weight % cannot be determined by PLM. Asbestos with diameter below ~1 μm may not be detected by PLM. Asbestos in dust, debris, and some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). The lower quantitation limit (reporting limit) of PLM estimation is 1%. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos; however, reliable determination of asbestos percent at this level cannot be done by PLM estimation of print Counting or TEM is recommended. Only dominant non-asbestos materials are indicated. Interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Sample heterogeneity is indicated by listing more than one distinct layer or material on the report. Layers are analyzed separately when feasible; if asbestos is detected, asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Compositing asbestos percentages are applicable only to wallboard / joint compound systems; compositing is based on customers' descriptions of material as "joint compound". Customers are solely responsible for identification and description of bulk materials listed on field forms. Laboratory descriptions may differ from those given by customers. Quality Control (QC) Codes: A1/A2 = results within acceptance limits; B = no asbestos in lab blank; R = resolved after review. Accreditation by NIST / NVLAP (Lab Code 101872-0). CA ELAP Certification #1037. EPA 1993 method is based on EPA Interim Method (1982), with improved analytical techniques. Unless otherwise stated herein, all samples were received in acceptable condition for analysis. This report shall not be reproduced without the approval of Micr

ENVIRONMENTAL PM - S. Steiner Steff@rgaenv.com fax: 510 899.7051 PM - B. Weisbrod brent.weisbrod@rgaenv.com fax: 510.899.7062

PM - K. Schroeter

PM - T. Kattchee

karin@rgaenv.com

fax: 510.899.7063

ACM BULK SAMPLE DATA SHEET

* PLM Analysis _PM-K. Pilgrim ken@rgaenv.com fax: 510.899.7053 X Stop Analysis at First Positive _ Analyze All Samples _PM - B. Gils bob@rgaenv.com fax: 510.899.7050 __ Point Count Analysis (400-point)

	brent.weisbrod@rg fax: 510.899.706		bob@rgaenv.com fax: 510.899.7050	Point Count Analysis (400-point
I	Project Name/Add	ress: 1401 CAKES	10E DR 123	FLUOR	PO #
I	RGA Project #: C	UAL17358	Sampled By	KENIN REED	
5	Sample(s) Sent To	: XRGAEMSL	Other:	TAT:	Rush 24Hrs3-5 Days
*	**FAX OR	E-MAIL REPORT T	O: SEE AROVE	PROJECT MA	NACED (DM)***
*	***ADDITION	AL REPORT RECIPIENT	(S):	TROJECI MA	***
б.	НМ#	Material Description The	w masma	10 A 17/15 11 11	
A.	Sample ID	Material Description: TAN Sample Location & Materi	al Location	ON DEUR CAR	ਪantity:
Ñ	1401-12-11	CLOSET AREA			
12	18	KRONT OFFICE	=		
3	10	NE OFFICE			
	HM#	Material Description:	15 BACC 411 -	TAN MACTIC	
	Sample ID	Material Description: COU Sample Location & Materi	al Location	Q (1/1/23)) Q	uantity:
it	1401-12-2A	CLOSET AREA			
-05	28	FRONT OFFICE	-		
iλe	20	NE OFFICE			
ĺ	HM#	Material Description: DA	YUBU W/T	Dinit cum Da	(1.10
	Sample ID	Sample Location & Materi	al Location	Q	uantity:
١	1401-12-3A	CLUSET AREA			The state of the s
08		NE OFFICE	¥.		
ð٩	30	FRONT OFFICE			
زا	HM#	Material Description: CO	VE RASS MA	(T) (
	Sample ID	Campio Ecounon a materi	ei Lucaliuii	Q	uantity:
0	1401-12-4A	FILS RM for	41		
11	48		Room		2
12	40	· ·	S. I		
Ì	HM#	Material Description:	NPET MASTI	_	
	Sample ID	Sample Location & Materi	al Location		uantity:
3	SA	FILE RM HR			
4	58	SW CORNER		\mathcal{F}_{ii}	alvertheto
5	SC	N SIDE			Alameda
الانا					Attn. Jason /
- 1					
ı					
				1	
	Relinquished By:	KEUINKEENC	Signature: 4		Date/Time: 8/2.4/07
	Received By:		Signature		Date/Time: <u>8/24/19</u> 3.400/
	Relinquished By		Signature:	/	Date/Time: 8/24/13 8.4007 Date/Time:
	Received By;		Signature:	-	Date/Time:

Page 1 of 3

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

1098
Mike Benefield
IHI Environmental
1260 45th Street, Suite L
Emeryville, CA 94608

PROJECT:

COA - 3 BUILDINGS

LTD SAMPLING

1401 LAKESIDE DRIVE

1 LAKESIDE DRIV OAKLAND, CA 08B-2172 Micro Log In 113886

Total Samples 14

Date Sampled 07/15/2008

Date Received 07/15/2008

Date Analyzed 07/15/2008

ASBESTOS INFORMATION

SAMPLE (DENTIFICATION

QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES

DOMINANT OTHER MATERIALS

Cilent: 2172-7/15-201-1 Micro: 113856-01 CERAMIC WALL TILE ADHESIVE & GROUT MENS 3 NEAR DOOR	Analyst da	ADHESIVE (YELLOW): NONE DETECTED GROUT (WHITE): NONE DETECTED	6 % CELLULOSE Main'x ROCK FRAGMENTS Type: SYNTHETIC MATERIAL
Client 2172-7/15-202-1 Micro: 113886-02 CERAMIC WALL TILE ADHESIVE & GROUT MENS 3 AT DOOR THRESHOLD	Analyst: DA	ADHESIVE: NONE DETECTED GROUT: NONE DETECTED	MATIX CARBONATE Type: ROCK FRAGMENTS
Client: 2172-7/15-201-2 Micro: 113886-03 CERAMIC WALL TILE ADHESIVE & GROUT WOMEN 1 AT SOUTH WALL	Analyst: DA	ADHESIVE: NONE DETECTED GROUT: NONE DETECTED PAPER: NONE DETECTED	20 % CELLULOSE Main'x CARBONATE Type: ROCK FRAGMENTS
Client: 2172-7/15-202-2 Micro: 113886-04 CERAMIC WALL TILE ADHESIVE & GROUT WOMEN 1 AT DOOR THRESHOLD	Analyst DA	ADMESIVE: NONE DETECTED GROUT: NONE DETECTED TILE: NONE DETECTED	Matrix CLAY Type: ROCK FRAGMENTS
Client: 2172-7/15-201-3 Micro: 113886-05 CERAMIC WALL TILE ADHESIVE & GROUT WOMEN 4 BY DOOR	Analyst DA	ADHESIVÉ: NONE DETECTED GROUT: NONE DÉTECTED PAPER: NONE DÉTECTED	20 % CELLULOSE Mainx CARBONATE Type: SYNTHETIC MATERIAL

Technical Supervisor:

Gamini Ranatunga, Ph.D.

Date Reported

Asbestos is quantified by calibrated visual estimation, Detection limit is material dependent. Detection of asbestos traces (much less than 1%) may not be reliable or reproducible by PLM. Weight % cannot be determined by PLM. Asbestos with diameter below ~1 µm may not be detected by PLM. Absence of asbestos in dust, debris, and some compact materials, including itoot tiles, cannot be condustively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). The lower quantitation limit (reporting limit) of PLM estimation by PLM estimation; PLM Point Counting or TEM is recommended. Only dominent non-asbestos materials are indicated, interferences may prevent detection of small asbestos libers, and hinder determination of zome optical properties. Sample heterogeneity is indicated by listing more than one distinct layer or material on the report. Layers are analyzed separately when feasible; if asbestos is detected, percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages are spilicable only to wellboard / Joint compound systems; compositing is based on customers' descriptions of material as "joint compound". Customers are solely responsible for identification and description of bulk materials listed on field forms. Laboratory descriptions any differ from those given by customers. Quality Control (COC Codes: A1/42 = results within acceptance limits; M = Method error resolved (for trace amounts); B = Other, resolved after review. Accreditation: NIST / NVLAP (Lab Code 101872-0), CA ELAP Certification #1037. EPA 1993 method is based on EPA interim Method (1982), with improved analytical tochiques. Unless otherwise stated herein, all samples were received in acceptable condition for analysis. This report must not be used to claim produced analytical tochiques. Unless otherwise stated herein, all samples were received in expression of the samples analyzed. ND = NO ASBESTOS DETECTED.

5300 HOLLIS STREET, SUI

Page 2 of 3

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

1098
Mike Benefield
IHI Environmental
1260 45th Street, Suite L
Emeryville, CA 94608

SAMPLE IDENTIFICATION

PROJECT:

COA - 3 BUILDINGS
LTD SAMPLING

1401 LAKESIDE DRIVE
OAKLAND, CA

OAKLAND, CA 08B-2172 Micro Log In 113886

Total Samples 14

Date Sampled 07/15/2008

Date Received 07/15/2008

Date Analyzed 07/15/2008

ASBESTOS INFORMATION

QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES

DOMINANT OTHER MATERIALS

Client: 2172-7/15-202-3 Micro: 113886-06 CERAMIC WALL TILE ADHESIVE & GROUT WOMEN 4 AT DOOR THRESHOLD	Analyst: DA	ADHESIVE: NONE DÉTECTED GROUT: NONE DETECTED	2% CELLULOSE Mattix CARBONATE Typo: ROCK FRAGMENTS
Client: 2172-7/15-203-1 Micro: 113886-07 GYPSUM WALLBOARD SYSTEM MENS 3 BEHIND DOOR	Analyst DA GR	WALLBOARD; NONE DETECTED TEXTURE: NONE DETECTED PAINT: NONE DETECTED (NO TAPE IN THE SAMPLE)	10 % CELLULOSE 2 % FIBROUS GLASS MAITIX MIXED CARBONATE - Typs: GYPSUM QC; A2
Client: 2172-7/15-204-1 Micro: 113886-08 COVEBASE & ADHESIVE BREAKROOM 122 NORTHEAST	Analyst: DA	COVE BASE: NONE DETECTED ADHESIVE; NONE DETECTED	MBUTX CARBONATE Typo: Synthetic Material
Client: 2172-7/15-205-1 Micro: 113886-09 GYPSUM WALLBOARD SYSTEM BREAKROOM 122 NORTHWEST	Analyst: DA	WALLBOARD: NONE DETECTED JOINT COMPOUND: NONE DETECTED TEXTURE / PAINT: NONE DETECTED	10 % CELLULOSE 2 % FIBROUS GLASS Matrix MIXED CARBONATE • Type: GYPSUM
Client: 2172-7/15-2U5-2 Micro: 113886-10 GYPSUM WALLBOARD SYSTEM BREAKROOM 122 NORTHEAST	Analyst DA	WALLBOARD: NONE DETECTED JOINT COMPOUND: NONE DETECTED TEXTURE / PAINT: NONE DETECTED	10 % CELLULOSE 2 % FIBROUS GLASS Matrix MIXED CARBONATE - Type: GYPSUM

Technical Supervisor: 7/16/2008

Gamini Ranatunga, Ph.D. Date Reported

Asbestos is quantified by calibrated visual estimation, Detection limit is material dependent. Detection of asbestos traces (much less than 1%) may not be reliable or reproducible by PLM. Weight % cannot be determined by PLM. Asbestos with diameter below ~1 µm may not be detected by PLM, Absence of asbestos in dust, debris, and some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). The lower quantitation limit (reporting limit) of PLM estimation is 1%. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos; however, reliable determination of asbestos percent at this level cannot be done by PLM estimation; PLM Point Counting or TEM is recommended. Only dominant non-asbestos materials are indicated. Interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Sample heterogeneity is indicated by listing more than one distinct layer or material on the report. Layers are analyzed separately when teasible; if asbestos is detected, percentages are reported for individual layers. Interfayer contamination is possible among any layers in a sample. Composite asbestos percentages are applicable only to wallboard / joint compound systems; compositing is based on customers' descriptions of material as "joint compound". Customers are solely responsible for identification and description of bulk materials listed on field forms. Laboratory descriptions may differ from mose given by customers. Quality Control (QC) Codes: A1/A2 = results within acceptance limits; M = Method error resolved (for trace amounts); R = Other, resolved after review. Accreditation: NIST / NVLAP (Lab Code 101872-0). CA ELAP Certification #1037. EPA 1993 method is based on EPA Interim Method (1982), with improved analytical techniques. Unloss otherwise stated herein, all samples were received in acceptable condition for analysis. This report must not be used to claim prod

Page 3 of 3

113886

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

1098
Mike Benefield
IHI Environmental
1260 45th Street, Suite L
Emeryville, CA 94608

SAMPLE IDENTIFICATION

PROJECT:

COA - 3 BUILDINGS

LTD SAMPLING

1401 LAKESIDE DRIVE

OAKLAND, CA

08B-2172

Total Samples 1

Micro Log In

Date Sampled 07/15/2008
Date Received 07/15/2008

Date Analyzed 07/15/2008

ASBESTOS INFORMATION

QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES

DOMINANT OTHER MATERIALS

		V
Client: 2172-7/15-205-3 Micro: 113886-11 Analyst: DA GYPSUM WALLBOARD SYSTEM BREAKROOM 122 NORTHEAST	WALLBOARD: NONE DETECTED JOINT COMPOUND: NONE DETECTED PAINT: NONE DETECTED	20 % CELLULOSE Matik MIXED CARBONATE - Type: GYPSUM
Client: 2172-7/15-206-1 Micro: 113886-12 Analyst; DA GR SKIN COAT BREAKROOM 122 NORTHWEST	SKIM COAT: NONE DETECTED PAINT: NONE DETECTED TAPE: NONE DETECTED	15 % CELLULOSE Matrix CARBONATE Type: Synthetic material QC: A2
Client: 2172-7/15-206-2 Micro: 113886-13 SKIM COAT BREAKROOM 122 NORTHEAST	SKIM COAT: NONE DETECTED PAINT: NONE DETECTED TAPE: NONE DETECTED	15 % CELLULOSE Medita CARBONATE Type: SYNTHETIC MATERIAL
Client: 2172-7/15-206-3 Micro: 113886-14 SKIM COAT BREAKROOM 122 NORTHEAST	SKIM COAT: NONE DETECTED PAINT: NONE DETECTED TAPE: NONE DETECTED	15 % CELLULOSE Matrix CARBONATE Type: SYNTHETIC MATERIAL

Technical Supervisor: 7/16/2008

Gamini Ranatunga, Ph.D. Date Reported

Asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (much leas then 1%) may not be reliable or reproducible by PLM. Weight % cannot be determined by PLM. Asbestos with diameter below ~1 µm may not be detected by PLM. Absence of asbestos in dust, debris, and some compact materials. Including floor tiles, cannot be conclusively established by PLM, and should be continued by Transmission Electron Microscopy (TRM). The lower quantitation limit (reporting limit) of PLM estimation is 1%. The Cal-OSHA defundion of asbestos-containing construction materials is 0.1% asbestos; however, reliable determination of asbestos percent at this level cannot be done by PLM estimation; PLM Polin Counting or TEM is recommended. Only dominant non-asbestos materials are indicated. Interferences may prevent detection of small asbestos fibers, and kinder determination of some optical properties. Sample heterogeneity is indicated by listing more than one distinct layer or material on the report. Layers are analyzed separately when feasible; if asbestos is detected, percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages are applicable only to walfboard / joint compound systems; compositing is based on customers' descriptions of material as "joint compound". Customers are solely responsible for identification and description of bulk materials listed on filed forms. Laboratory descriptions of material as "joint compound". Customers, Quality Control (QC) Codes: A1/42 = results winin acceptance limits; F = failse positive or negative corrected, reanalysis winin acceptance limits; M = Method error resolved (for trace amounts); R = Other, resolved after review. Accreditation: NIST / NVLAP (Lab Code 101872-0). CA ELAP Certification #1037. EPA 1993 method is based on EPA interfin Method (1982), with improved analytical techniques. Unless otherwise stated horein, all samples were receive

IHI Environmental

Bulk Sample Data Sheet and Chain of Custody

	A 3 BLOGS LTB SAMPLING	Date: 116103	Notes:	
Project Number: Q	8R-47x	PLM Pt.Cnt. / AA		
Address: 140	I LAKESIDE DR, DAKLAND	Turn Around Time		
Sampled By: M.	BENEFICEN	Rush (24hr) Std	<u></u>	
Sample ID#	Material Description	Sample Location		Phot
172-715-201-1-	Committee The ADMENUE & FRAT	MENYSMEAR DOOR		
172-745-202-1-	Cerneflar TILE ADHESIVE & GROWT	Mer's Be Door		
172-76-201-20	Ceromic Wall Tile Adhesive Efront	WOMEN O SOUTH		i
17-7/2 101-2	Gran a Unil Tile Address & Grant	Woman (1) @ Doon	THRESHOLD	
171-7/15-201-30	Carrain Well TILE AMESNEEGOOT	WMEN(4) BY D	して	
2172-7/5-202-3/	Come floor Tile Adheric & broat	WOMEN (1) & DOOR	THRESHOLD	
171-7/15-203-1	GYBUM WALCOARD SYSTEM	Mas (3) Exhiral D	ou R	
2172-7/15-204-1	COVEBASE & ABHESTVE	BREAK RM (12)	North East	
2172-76-205-1-	Gylson WALLBOARD SYSTEM	BREAK RAN (II)	NW	
271-7/15-205-)	CYPSVIN WHALLOAND SYSTEM	11	NE	
2172-7/15-205-3	fyfsum wallboard syltein	a	NE	
	SKIM LOAT	et //	มฟ	
2172-7/5-266-2	CHIMA COST	٠,	NE.	
2172-7/5-206-3	SKIM COAT	\c	NE	
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1730 Minor Avenue, Suite 900, Seattle, WA 98101

OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



County of Alameda

Project Location: Parking Garage

1401 Lakeside Oakland, CA

RGA Batch Number: 13-0112

RGA Project Number: COAL31970

Number of Samples: 4

		Report Key		
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
1-A 13001144	L-1 Gray concrete	No Asbestos Detected		50% Sand 30% Mineral Particles 20% Rocks
1-B 13001145	L-1 Gray concrete	No Asbestos Detected		50% Sand 30% Mineral Particles 20% Rocks
2-A 13001146	L-1 Red Granular material	No Asbestos Detected		40% Sand 40% Mineral Particles 20% Rust
	L-2 Gray concrete	No Asbestos Detected		50% Sand 30% Mineral Particles 20% Rocks
2-B 13001147	L-1 Gray concrete	No Asbestos Detected		50% Sand 30% Mineral Particles 20% Rocks

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are crosschecked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: Steve Rogers

Received By: Abdulrazzak Mansur 1/17/2013 1/18/2013 Reviewed By: Aruna Turaga

Analyzed By: Adam Kinch

Page 1 of 1 1/18/2013

Sample Log Chain of Custody

RGA Laboratory Services INTERNAL

Clier	ıt:	Client Contact			RGA Batch #:	13-01	12
Company: County of Alameda		a		RGA Project #:	COAL31	970	
Client Address: neral Services Agency / 1401 Lakeside Dr., 11th			ide Dr., 11th Fl		Client Job #:		
Oakla	nd .	ÇA	94612		Number of Samples:		
City		State	Zip	•			
Phon	e #:				TYPE	OF ANALYSIS	S
2nd o	or Cell #:		•		ASBESTOS:	METALS:	
Fax #	<i>f</i> :		······································	•	PCM (air)	Paint	Soil
e-ma	il Address:				X PLM (bulk)	Wipe	Air
					Pt. Count (bulk)	TCLP	Water
					MOLD: P&K 10	0 101 102	_ 105 117
Proj	ect Manager:	Steff Stein	er		Other Method:		
D					TrA	/ 1 > 24 hour	
Proj	ect Location: Parkin	ng Garage	····		Turn Around Time	T	
	1401	Lakeside			2 hour / 4 hour	Same Day	One Day
	Oakla	ınd, CA			Two Day	3-5 days	10 days
Condi	tion: GoodI	DamagedSevere	Damage	,	Price per Sample:	\$	
#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	1-A	13001144		11			
2	1-B	13001145		12			
3	2-A	13001146		13			
4	2-B	13001147		14	:		
5				15			
6				16			
7				17			
8				18			
9	······································			19			
10				20			
		!	 	Sig	gnature	Date	Time
Sampled by:			53		SEKS	111613	
Relinquished by:							
Received by:			70P	その	FLOURA	1/16/13	1440
Relinquished by:			1				
Received for Laboratory by:			A		M	(1,1,1)	1311
Analyzed by:				:// 		1/1/1/2	
Preliminary Results Reported to P.M. by:			100			7/18/13	
Fina	l Report to P.M. by:						
Special Instructions:					Analyze all samples		
Due	by 1/18/2013				•		



ENVIRONMEN PM – S. Steiner steff@rgaenv.com fax: 510.899.7051

PM – T. Kattchee

tedd@rgaenv.com fax: 510.899.7070 __PM - K. Schroeter karin@rgaenv.com fax: 510.899.7063

bob@rgaenv.com fax: 510.899.7050

PM - B. Gils

__PM - K. Pilgrim ken@rgaenv.com fax: 510.899.7053

__PM – Marlin Bryant __marlin.bryant@rgaenv.com fax:510.899.7062

ACM BULK SAMPLE DATA SHEET

SHEET	
* PLM Analysis	
Stop Analysis at First Positive	PAGE OF
Analyze All Samples	

Point Count Analysis (400-point)

Project Name/Address/Building No. : 1401 Lakeside, Oak	eland CA Clarkin garage)
RGA Project: <u>COAL-31970</u> Sampled By: <u>Slow</u>	
Sample(s) Sent To: PRGA EMSL Other:	<u>TAT:</u> Rush 24Hrs3-5 Days
** <u>FAX OR E-MAIL REPORT TO</u> : SEE ABOVE	PROJECT MANAGER (PM) ***
** A DDITTON A F. DEDODE DECEDITATION	` ,

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min)
•

Relinquished By: Stree Rosers	Signature: Date/Time: 1-16-13 1738
Received By: Duane Flohra	Signature: Date/Time: JAN 1 6 2013/1440
Relinquished By:	Signature. Date/Time:
Received By: Recei	Signature: Date/Time: 11713
	\sim



ASBESTOS TEM LABORATORIES, INC.

EPA Interim Method Polarized Light Microscopy Analytical Report

Laboratory Job # 338360

600 Bancroft Way, Ste. A Berkeley, CA. 94710 (510) 704-8930 FAX (510) 704-8429 www.asbestostemlabs.com

With Branch Offices Located At: 1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431 Ph. (775) 359-3377



CA DPH ELAP Lab No. 1866

NVLAP Lab Code: 101891

Dec-24-15

Steffan Steiner Terracon Consultants, Inc. 1260 45th Street Emeryville, CA 94608

LABORATORY JOB # 338360 RE:

Polarized light microscopy analytical results for 7 bulk sample(s).

Job Site: 1401 Lakeside Drive Oakland, California

Job No.: R1158379

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into a standard report format and reviewed by the authorized signatory before being released to the client.

Sincerely Yours,

Lab Manager

ASBESTOS TEM LABORATORIES, INC.

& me Bu

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Note: Test samples will be stored for three months after data of receipt, after which they will be properly disposed unless client makes other arrangements with the laboratory.

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

1 of · Page:

Contact: Steffan Steiner

Samples Indicated:

Report No. 338360

Reg. Samples Analyzed:

7

Date Submitted: Dec-23-15

Address: Terracon Consultants, Inc.

Split Layers Analyzed:

Date Reported: Dec-24-15

1260 45th Street

Emeryville, CA 94608

Job Site / No. 1401 Lakeside Drive Oakland, California

R1158379

SAMPLE ID	ASBESTOS W TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD LAB
01-SP5-01	None Detected	1)2-10% Cellulose,Fiberglass 2)90-98% Calc	1st floor electrical room
Lab ID # 1434-00642-001		3) Dec-23-15 4) Dec-24-15	Insulation-Off-White/Grey
01-SP5-02	None Detected	1)2-10% Cellulose,Fiberglass 2)90-98% Calc	4th floor electrical room
Lab ID # 1434-00642-002		3) Dec-23-15 4) Dec-24-15	Insulation-Off-White/Grey
01-SP5-03	None Detected	1)2-10% Cellulose,Fiberglass 2)90-98% Calc	7th floor electrical room
Lab ID # 1434-00642-003		3) Dec-23-15 4) Dec-24-15	Insulation-Off-White/Grey
01-SP5-04	None Detected	1)2-10% Cellulose,Fiberglass 2)90-98% Calc	9th floor electrical room
Lab ID # 1434-00642-004	,	3) Dec-23-15 4) Dec-24-15	Insulation-Off-White/Grey
01-SP5-05	None Detected	1)2-10% Cellulose,Fiberglass 2)90-98% Calc	10th floor electrical room
Lab ID # 1434-00642-005		3) Dec-23-15 4)Dec-24-15	Insulation-Off-White/Grey
01-SP5-06	None Detected	1)2-10% Cellulose,Fiberglass 2)90-98% Calc	11th floor electrical room
Lab ID # 143 4-0 0642-006	•	3) Dec-23-15 4) Dec-24-15	Insulation-Off-White/Grey
01-SP5-07	None Detected	1)2-10% Cellulose,Fiberglass 2)90-98% Calc	12th floor electrical room
Lab ID # 1434-00642-007		3) Dec-23-15 4)Dec-24-15	Insulation-Off-White/Grey
		1) 2)	
Lab ID#		3) 4)	_
		1) 2)	* 1 1
Lab ID#		3) 4)	
•	3	1) 2)	:
Lab ID #		3) 4)	

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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lerracon

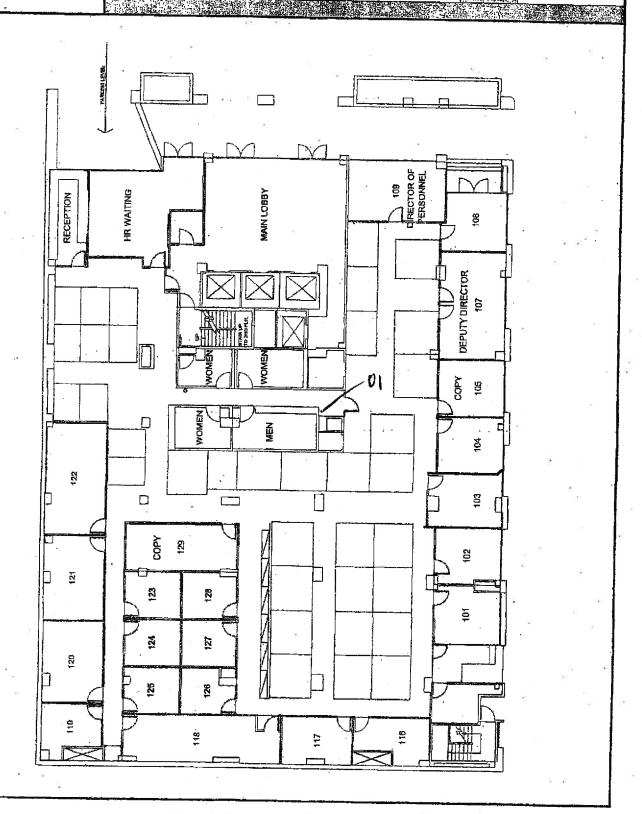
and the second s	The state of the s		The state of the s		
PM - S. Steiner	The state of the s	K. Pilgrim Igrim@terracon.com	ACM BULK SAMPLE DATA SHEET		
PM – M. Bryant mybryant@terracon.c	□PM = T. Kattchee □PM = om takeitchae@terracon.com regile	m. m.u.	PLM Analysis (Analyze all samples) Stop Analysis at First Positive		
□PM-M. Benefield □PM D. Ufferfilge □PM - M. Bishop □Point Count Analysis (400-point)					
msbeneficid@terracon.d	om	под позначения	m - 420 4 5 5 7 4		
□PM – W. Frieszell wmfrieszell@terracon.c	y send copy of results to jason.garrison@acgov.org		PAGE 1 OF 1		
Project Name/ Addr	ess/ Building No. 1401 Lakeside Drive O	akland, California			
Project# R1158			ing Date: 12-23-15		
Sample(s) sent to:	□RGA □EMSL ☑ Other	TAT D	☑ Rush ☐ 24HRS ☐ 3-5 days		
	E-MAIL REPORT TO: SEE A	BOVE PROJE	CT MANAGER (PM)***		
***ADDITIC	NAL REPORT RECIPIENT(S	5): John@rgae	nv.com ***		
HM# 1	Material Description: Concrete Sample Location & Material Location		Quantity:		
Sample ID 01-SP5-01	1st floor electrical room	Marie Communication of the Com	To the second se		
01-SP5-01 01-SP5-02	4th floor electrical room	· · · · · · · · · · · · · · · · · · ·	The second secon		
01-SP5-02 01-SP5-03	7th floor electrical room				
		<u> </u>			
HM# 1 Material Description: Concrete Sample ID Sample Location & Material Location Quantity:					
Sample ID Sample Location & Material Location Quantity: 01-SP5-04 9 th floor electrical room					
01-SP5-05					
01-SP5-06	11th floor electrical room				
HM# 1	Material Description: Concrete				
Sample ID	Sample Location & Material Location		Quantity:		
01-SP5-07	12th floor electrical room	2.5	9.		
HM#	Material Description				
Sample ID	Material Description: Sample Location & Material Location		Quantity:		
			The second secon		
		The second secon	And the Art of the Art		
Relinquished By:	TO THE PROPERTY OF THE PARTY OF	bn Urban	Date/Time: 12-23-15		
Received By:	Chase Agrino Signature: [no to	Date/ Time:		
Relinquished By:	Signature:		Date/Time: Date/Time:		
Received By:	Signature:		Date inte		

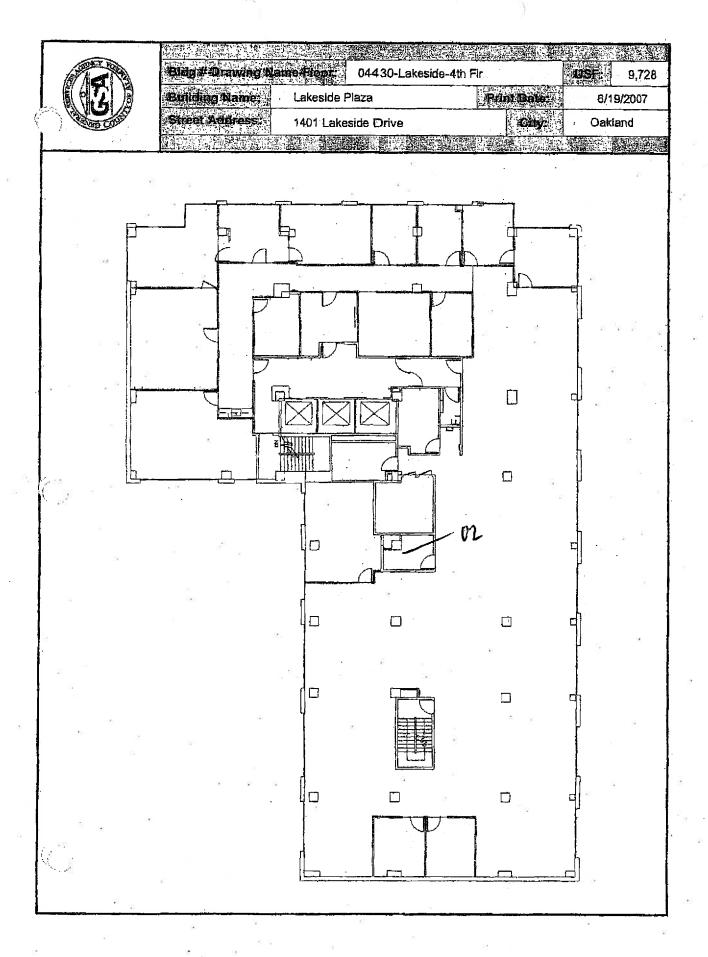


Birig # Brawning #Brise | February | 04430-Lakeside-1st Fir | 10,699

Building Manne: Lakeside Plaza | Perint Date | 6/19/2007

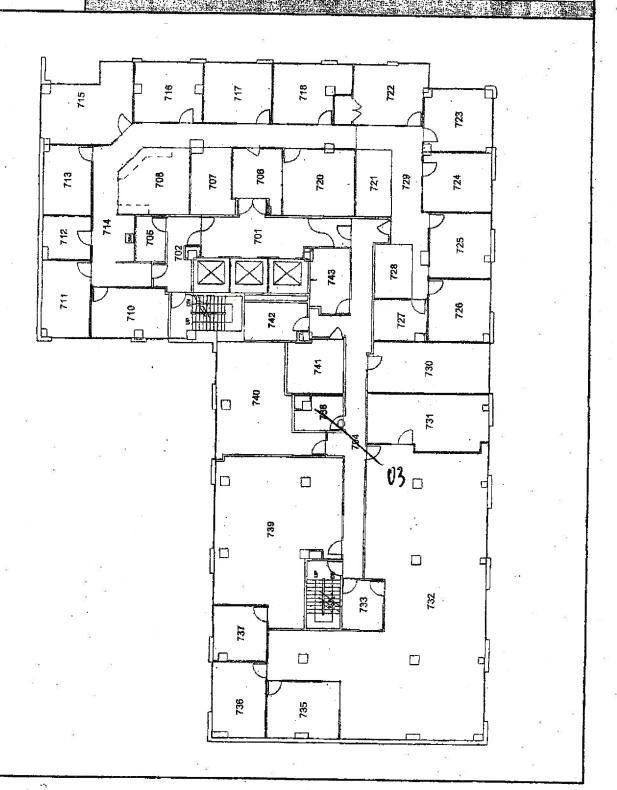
Since | Andrews | 1401 Lakeside Drive | Calver | Oakland

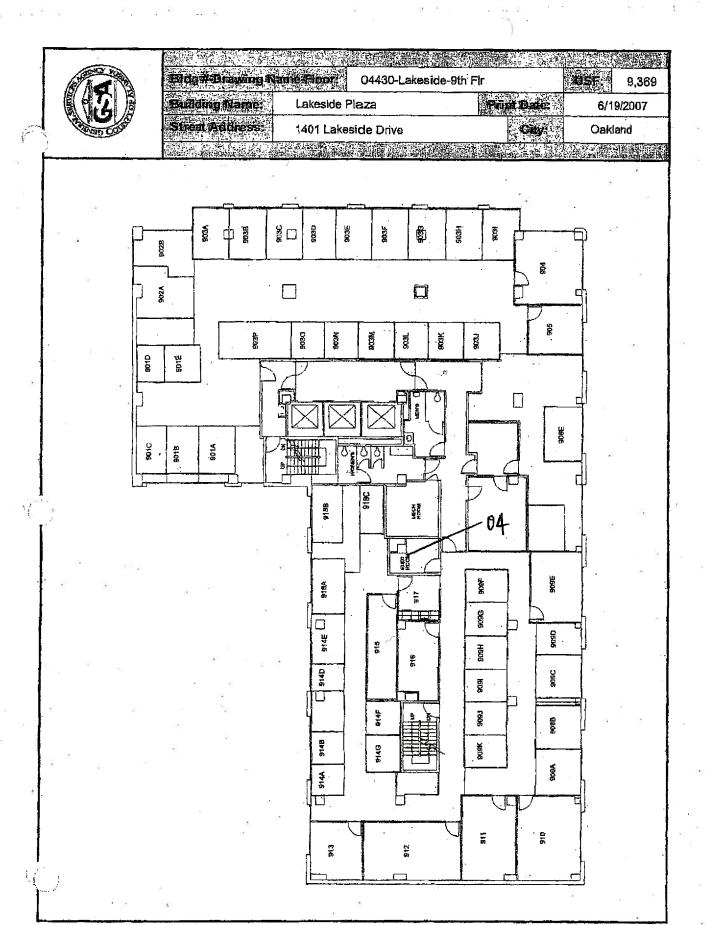




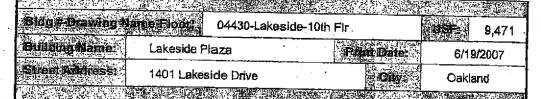


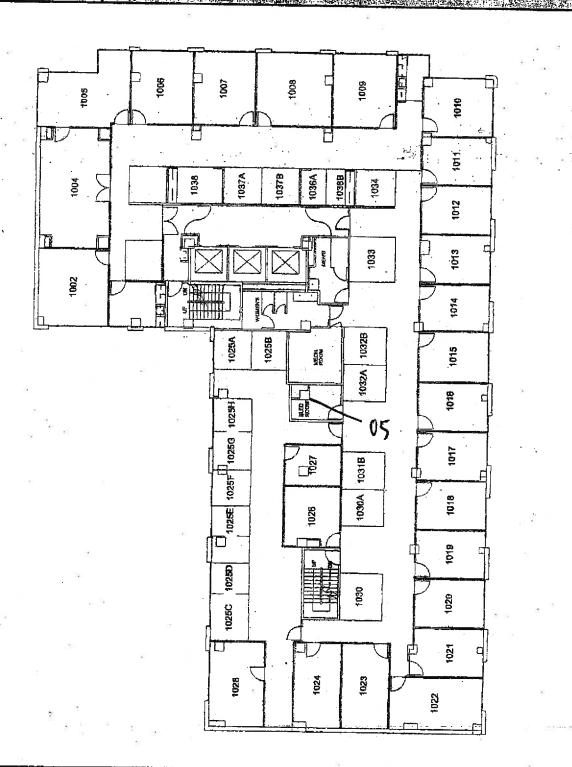
Building Rame: Lakeside Plaza Print Dake: 6/19/2007
Street Address: 1401 Lakeside Drive Chy

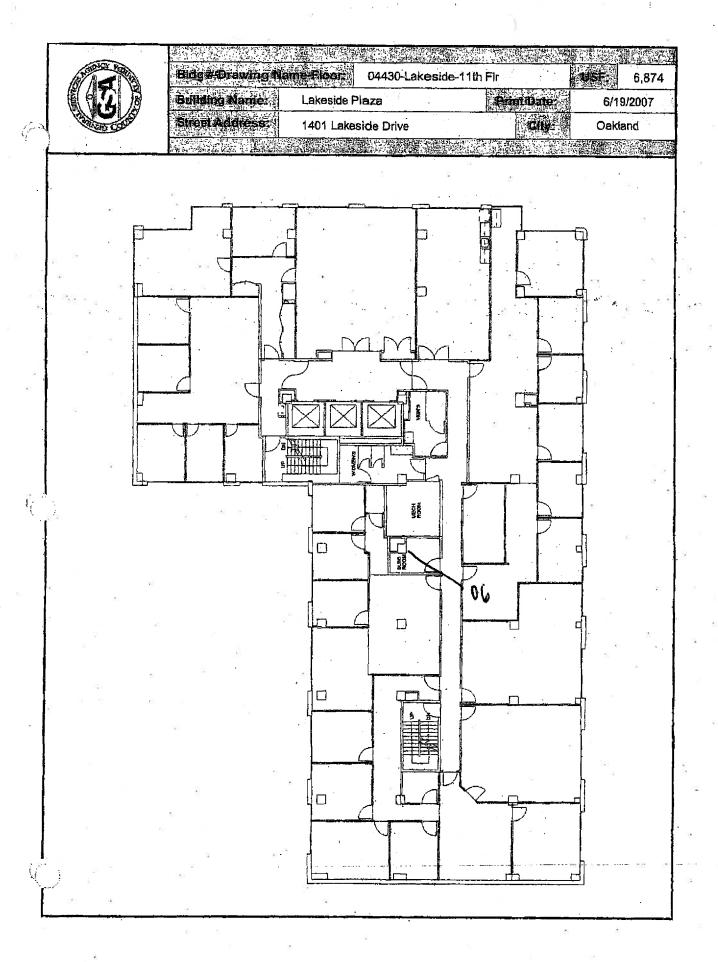




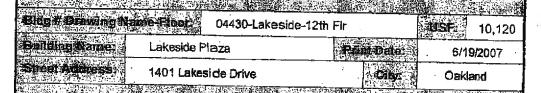


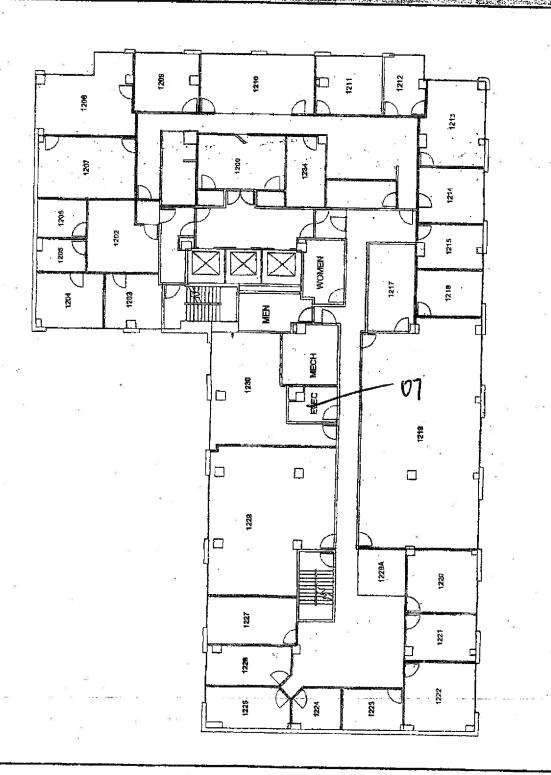














ASBESTOS TEM LABORATORIES, INC.

EPA Interim Method Polarized Light Microscopy Analytical Report

<u>Laboratory Job # 346489</u>

600 Bancroft Way, Ste. A Berkeley, CA 94710 (510) 704-8930 FAX (510) 704-8429 www.asbestostemlabs.com

With Branch Offices Located At: 1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431 Ph. (775) 359-3377



ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP Lab No. 1866



NVLAP Lab Code: 101891-0 Berkeley, CA

Dec-23-16

S. Steiner Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608

RE:

LABORATORY JOB # 346489

Polarized light microscopy analytical results for 4 bulk sample(s) with 2 sample split(s)

Job Site: 1401 Lakeside Rm 1028

Job No.: R1167F47

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into a standard report format and reviewed by the authorized signatory before being released to the client.

Sincerely Yours,

Lab Manager

ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Note: Test samples will be stored for three months after data of receipt, after which they will be properly disposed unless client makes other arrangements with the laboratory.

PC ARIZED LIGHT MICRO COPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page:

1 of

Contact: S. Steiner

Samples Indicated:

4

4

2

346489

Address: Terracon Consultants, Inc.

Reg. Samples Analyzed:

Date Submitted: Dec-22-16

Report No.

1466 66th Street

Split Layers Analyzed:

Date Reported: Dec-23-16

Emeryville, CA 94608

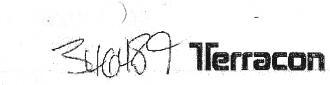
Job Site / No. 1401 Lakeside Rm 1028

R1167F47

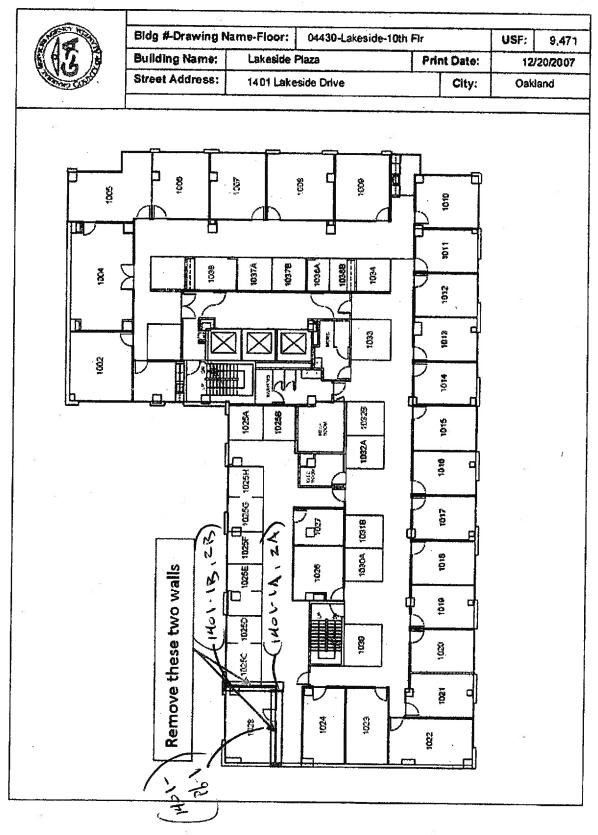
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD LAB
1401-01A	None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq, Other m.p.	DW+JC - RM 1028 SE Corner
ab ID # 1434-01940-001A		3) 4) Dec-23-16	Drywall-Off-White
1401-01A	None Detected	1)1-5% Cellulose 2)95-99% Calc, Bndr, Mica, Other m.p.	DW+JC - RM 1028 SE Corner
ab ID # 1434-01940-001B		3) 4) Dec-23-16	JointCom/Text-Off-White
1401-01B	None Detected	1)1-5% Cellulose 2)95-99% Gyp, Opq, Other m.p.	DW+JC - RM 1028 E Wall at Col.
ab ID # 1434-01940-002A		3) 4) Dec-23-16	Drywall-Off-White
1401-01B	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Bndr, Mica, Other m.p.	
ab ID # 1434-01940-002B	·	3) 4) Dec-23-16	JointCom/Text-Off-White
1401-02A	None Detected	1) None Detected 2) 99-100% Calc, Bndr	Yellow Cove Glue - Rm 1028
ab ID # 1434-01940-003	<u> </u>	3) 4)Dec-23-16	Mastic-Yellow
1401-02B	None Detected	1) None Detected 2) 99-100% Calc, Bndr	Yellow Cove Glue - Rm 1028
ab ID # 1434-01940-004		3) 4) Dec-23-16	Mastic-Yellow
		1) 2)	
ab ID#		3) 4)	
		1) 2)	
ıb ID#	·	3) 4)	
		1) 2)	
ab ID#		3) 4)	
		1) 2)	
ab ID#		3) 4)	

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst



telinquished By: teceived By: telinquished By: teceived By:	Signature: Signature: Signature: Signature: 1466 66th Street Emeryville CA 94608 Tel: (510) 547-777	Date/Time: Date/Time: Date/Time: Date/Time:		
Sample ID	Sample Location & Material Location	Quantity:		
ЧМ #	Material Description:			
nin# Semple ID	Material Description: Sample Location & Material Location	Quantity:		
HM#				
В				
Sample ID	Sample Location & Material Location	Quantity:		
НМ#	Material Description:	i ,		
1-101-023	**	- Marketine		
451-02%	Em 1926			
ample ID	Sample Location & Material Location	Quantity:		
HM# 14-1-07	Material Description: Yellow Con Che			
1401-013	" " E ward at Col.			
1401-012	Zm 1020 SE Come			
Sample ID	Sample Location & Material Location	Quantity:		
1M# (40)-0\	Material Description Du - 5C			
ample(s) sent to: AT Rush	✓ 24HRS 48HR 3-5 days			
roject# ZNG	FH7 Sampled By: Kik S □ MAL □ AERO □ EMLAB □ Other	Sampling Date:		
	ress/Building No. 1401 Lakersha Pin			
PM- M. Benefield msbenefield@terrac		Point Count Analysis (400-point) PAGE L OF		
PM − M, Bryant mvbrvant@terracon.c	□PM – T. Kattchee □PM – W. Frieszell com takatichee@tenacon.com wmfrieszell@tenacon.com	m ☐ PLM Analysis (Analyze all samples) ☐ Stop Analysis at First Positive		
spsteiner@terracon.c		ACM BULK SAMPLE DATA SHEE		



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BULK ASBESTOS ANALYSIS - POLARIZED LIGHT MICROSCOPY (PLM)



1023 Steff Steiner Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608

PROJECT: JOB NO. R1177890 1401 LAKESIDE DRIVE

Micro Log In

235364

Total Samples

Date Sampled Date Received 08/02/2017 08/02/2017

Date Analyzed

08/02/2017

QUANTITY (AREA %) / TYPES / LAYERS **ASBESTOS INFORMATION** SAMPLE IDENTIFICATION ND = NO ASBESTOS DETECTED

DOMINANT OTHER MATERIALS

		NU = NO ASBESTOS DETECTED	
HM #140	1401-01A 235364-01 Analyst: EK GR 1-01 - 12" GREY TILE WITH BLACK MASTIC ER ROOM - 1ST FLOOR	FLOOR TILE: ND BLACK MASTIC: ND	NFM: SYNTHETIC MATERIAL, CARBONATE, ADHESIVE.
HM #140	1401-01B 235364-02 Analyst: EK 11-01 - 12" GREY TILE WITH BLACK MASTIC ER ROOM - 1ST FLOOR	FLOOR TILE: ND BLACK MASTIC: ND	NFM: SYNTHETIC MATERIAL, CARBONATE, ADHESIVE.
HM #140	1401-02A 235364-03 Analyst: EK 11-02 - CONCRETE ER ROOM - 1ST FLOOR	CONCRETE: ND	NFM: ROCK FRAGMENTS, CARBONATE, BINDER
HM #140	1401-02B 235364-04 Analyst: EK 11-02 - CONCRETE ER ROOM - 1ST FLOOR	CONCRETE: ND	NFM: ROCK FRAGMENTS, CARBONATE, BINDER

Technical Supervisor:

Garhini Banatunga, Ph.D.

8/2/2017 Date Reported

NVLAP Lab Code 101872-0. CA ELAP Certification #1037. Analyses use Polarized Light Microscopy (PLM), Micro Analytical SOP PLM-101. Basic techniques follow the EPA Interim Method for Bulk Insulation Samples (1982), and EPA-600/R93-116 (1993). The 1993 method covers all types of bulk materials and is based on the 1982 Method, with improved analytical techniques for layered samples as required for NESHAP compliance. Asbestos is quantified by califorated visual estimation. Detection limit is material dependent. Detection of asbestos traces (much less than 1%) may not be reliable or reproducible by PLM. Weight % cannot be determined by PLM. Asbestos with diameter below -1 µm may not be detected by PLM. Asbestos with diameter below -1 µm may not be transmission Electron Microscopy (TEM). Interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Tremolite-asbestos or actinolite-asbestos may be indistinguishable by PLM from some similar, non-regulated amphiboles (e.g. the "Libby Amphiboles" richterite and winchite), and should be confirmed by TEM. The lower quantitation inimit (reporting limit) of PLM estimation; PLM Point Counting or TEM weight percent analysis are recommended. Only dominant non-asbestos materials (fibrous and non-fibrous) are listed. This analysis shall not be construed as conclusive for the presence of any reported materials other than asbestos, or for the absence of any non-asbestos material. Common interferences include, but are not limited to: cellulose, fibrous glass, other man-made vitreous fibers, synthetic fibers, elongate fragments of calcium sulfate, talc, wollastonite, animal hair, and other miscellaneous elongate particles. Sample heterogeneity is indicated by listing more than one distinct layer or material on the report. If more than one distinct sample is received in the same container, sample shall be marked with letters and analyzed separately. Layers within a sample are analyzed separately when feasible; if asbestos is detecte

Terracon

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

XPM – S. Steiner spsteiner@terracon.com

PM- M. Benefield
msbenefield@terracon.com

__PM - K. Schroeter kmschroeter@terracon.com

_PM - T. Kattchee takattchee@terracon.com __PM - K. Pilgrim kmpilgrim@terracon.com

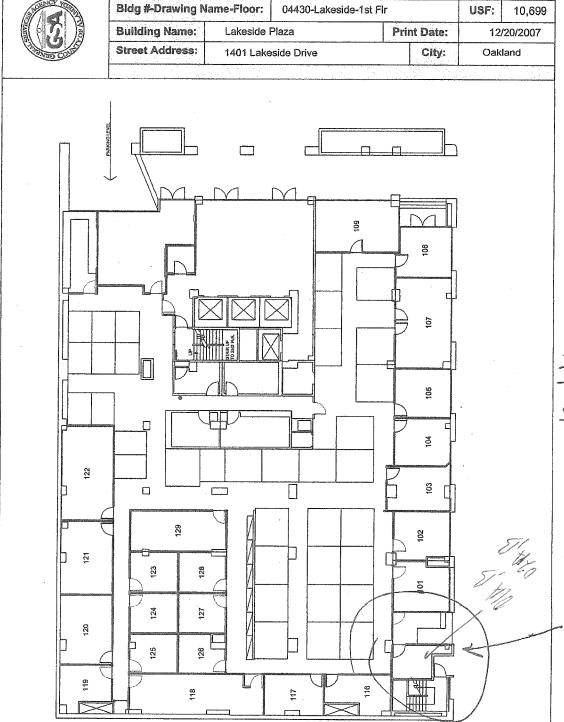
__PM – W. Frieszell wmfrieszell@terracon.com

ACM BULK SAMPLE DATA SHEET

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

PAGE / OF /

Project Name/Add	ress/Building No.: 1401 LAKESIDE Z	2.
Project #: Ru7	7896 Sampled By: MC	Sampling Date: 8/2/17
Sample(s) Sent To:	Emlab MAL other:	Sampling Date: 8/2/17 TAT:Rush 24Hrs48Hrs3-5 Days
HM# 1401-01	Material Description 12" Cloy THE	, TRIAN WASTE.
Sample ID	Material Description 12" GREY TICE Sample Location & Material Location	Quantity:
1401-01A	The state of the s	
-01B	IT STRUCK ROOM - 15t FRICK	
HM# 1401-02	Material Description: Corchete	
Sample ID	Sample Location & Material Location	Quantity:
1401-024	IT SPOWER ROOM - 1 ST FROM	
025	1	
		· ·
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
НМ#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
		- 2 .
		\cap
Relinquished By:	Signature:	Date/Time: 6/2/17
Received By:	Signature:	Date/Time: 8 2 7 13.57
Relinquished By: _ Received By:	Signature: Signature: Signature: Signature:	Date/Time: Date/Time:
	Signature.	\/Date/Time.



Sevel vorm needs tild. Cucked it it certains as bos tos.



Report for:

Mr. Steffen Steiner RGA Environmental, Inc. 1466 66th Street Emeryville, CA 94608

Regarding: Project: R1167B67; 1405 Lakeside, 14th St. Side Door Alcoves/Oakland, CA

EMĹ ID: 1818335

Approved by:

Dates of Analysis: Asbestos PLM: 10-25-2017

Approved Signatory Renee Luna-Trepczynski

Rence Luna-Trapezynski

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.

Lab ID-Version 1: 8514994-1

Lab ID-Version 1: 8514995-1

Lab ID-Version 1: 8514996-1

Lab ID-Version‡: 8514997-1

1501 West Knudsen Drive, Phoenix, AZ 85027 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: RGA Environmental, Inc.

C/O: Mr. Steffen Steiner

Re: R1167B67; 1405 Lakeside, 14th St. Side Door

Date of Sampling: 10-20-2017

Date of Receipt: 10-23-2017

Date of Report: 10-25-2017

Alcoves/Oakland, CA

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted: 16
Total Samples Analyzed: 16
Total Samples with Layer Asbestos Content > 1%: 0

Location: 1405-01A, Concrete Floor; Southwest Alcove East Side Floor

Sample Layers	Asbestos Content	
Gray Concrete with Gray Coating	ND	
Sample Composite Homogeneity: Moderate		

Location: 1405-01B, Concrete Floor; Southwest Alcove West Side Floor

Sample Layers	Asbestos Content	
Gray Concrete with Multilayered Coating	ND	
Sample Composite Homogeneity: Moderate		

Location: 1405-02A, Building Expansion Sealant; Southwest Alcove East Side Wall

Sample Layers	Asbestos Content	
White Sealant with Gray Surface	ND	
Off-White Sealant	ND	
Yellow Foam	ND	
Sample Composite Homogeneity: Moderate		

Location: 1405-02B, Building Expansion Sealant; Southwest Alcove West Side Wall

Sample Layers	Asbestos Content
Multicolored Coating	ND
White Sealant	ND
Off-White Sealant	ND
Sample Composite Homogeneity: 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.

 \ddagger 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".

Aerotech Laboratories, Inc EMLab ID: 1818335, Page 2 of 6

1501 West Knudsen Drive, Phoenix, AZ 85027 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: RGA Environmental, Inc.

C/O: Mr. Steffen Steiner

Re: R1167B67; 1405 Lakeside, 14th St. Side Door

Date of Sampling: 10-20-2017

Date of Receipt: 10-23-2017

Date of Report: 10-25-2017

Alcoves/Oakland, CA

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 1405-03A, Exterior Stucco With Aggregate; Southwest Alcove East Side Wall

Lab ID-Version 1: 8514998-1

Sample Layers	Asbestos Content
White Stucco with White Paint	ND
Gray Cementitious Material	ND
Dark Gray Cementitious Material	ND
Composite Non-Asbestos Content:	< 1% Synthetic Fibers < 1% Vermiculite
Sample Composite Homogeneity:	Poor

Location: 1405-03B, Exterior Stucco With Aggregate; Southwest Alcove East Side Wall

Lab ID-Version‡: 8514999-1

Sample Layers	Asbestos Content
Gray Coating	ND
White Stucco	ND
Gray Cementitious Material	ND
Composite Non-Asbestos Content: 2% Synthetic Fibers	
	2% Vermiculite
Sample Composite Homogeneity:	Poor

Location: 1405-03C, Exterior Stucco With Aggregate; Southwest Alcove West Side Wall

Lab ID-Version‡: 8515000-1

Sample Layers	Asbestos Content
Gray Coating	ND
White Stucco	ND
Gray Cementitious Material	ND
Composite Non-Asbestos Content:	2% Synthetic Fibers
_	2% Vermiculite
Sample Composite Homogeneity:	Poor

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Aerotech Laboratories, Inc EMLab ID: 1818335, Page 3 of 6

Lab ID-Version 1: 8515001-1

1501 West Knudsen Drive, Phoenix, AZ 85027 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: RGA Environmental, Inc.

C/O: Mr. Steffen Steiner

Re: R1167B67; 1405 Lakeside, 14th St. Side Door

Date of Sampling: 10-20-2017

Date of Receipt: 10-23-2017

Date of Report: 10-25-2017

Alcoves/Oakland, CA

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 1405-04A, Exterior Stucco; Southwest Alcove Central Wall

Sample Layers	Asbestos Content	
White Stucco with Tan Paint	ND	
Gray Stucco	ND	
Gray Cementitious Material	ND	
Sample Composite Homogeneity: Poor		

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Aerotech Laboratories, Inc EMLab ID: 1818335, Page 4 of 6

1501 West Knudsen Drive, Phoenix, AZ 85027

(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: RGA Environmental, Inc. Date of Sampling: 10-20-2017 C/O: Mr. Steffen Steiner Date of Receipt: 10-23-2017 Re: R1167B67; 1405 Lakeside, 14th St. Side Door Date of Report: 10-25-2017

Alcoves/Oakland, CA

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 1405-04B, Exerior Stucco; Southwest Alcove East Side Wall

Lab ID-Version‡: 8515002-1

Lab ID-Version‡: 8515003-1

Sample Layers	Asbestos Content	
White Stucco with Tan Paint	ND	
Gray Stucco	ND	
Composite Non-Asbestos Content: 2% Glass Fibers		
Sample Composite Homogeneity:	Moderate	

Location: 1405-04C, Exerior Stucco; Southwest Alcove West Side Wall

Sample Layers	Asbestos Content	
Multicolored Coating	ND	
White Stucco	ND	
Gray Stucco	ND	
Composite Non-Asbestos Content: 2% Glass Fibers		
Sample Composite Homogeneity:	Poor	

Location: 1405-05A, Wallboard With Taping Mud; Southwest Electrical Room South Wall

Lab ID-Version‡: 8515004-1

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

Location: 1405-05B, Wallboard With Taping Mud; Southwest Electrical Room East Wall

Lab ID-Version‡: 8515005-1

Sample Layers	Asbestos Content
White Joint Compound	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
	< 1% Glass Fibers
Sample Composite Homogeneity:	Moderate

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Aerotech Laboratories, Inc EMLab ID: 1818335, Page 5 of 6

1501 West Knudsen Drive, Phoenix, AZ 85027 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: RGA Environmental, Inc.

C/O: Mr. Steffen Steiner

Re: R1167B67; 1405 Lakeside, 14th St. Side Door

Date of Sampling: 10-20-2017

Date of Receipt: 10-23-2017

Date of Report: 10-25-2017

Alcoves/Oakland, CA

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 1405-06A, 4" Gray Base Cove With Yellow Adhesive; Southwest Electrical

Room South Wall

Lab ID-Version:: 8515006-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Sample Composite Homogeneity:	Good

Location: 1405-06B, 4" Gray Base Cove With Yellow Adhesive; Southwest Electrical Room East Wall

Lab ID-Version‡: 8515007-1

Sample Layers	Asbestos Content
Gray Baseboard	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 1405-07A, 12" Gray VFT With Black Mastic; Southwest Electrical Room Floor

80 Square Feet Lab ID-Version‡: 8515008-1

Sample Layers	Asbestos Content			
Gray Floor Tile	ND			
Black Mastic	ND			
Composite Non-Asbestos Content: < 1% Cellulose				
Sample Composite Homogeneity: Moderate				

Location: 1405-07B, 12" Gray VFT With Black Mastic; Southwest Electrical Room Floor

80 Square Feet Lab ID-Version‡: 8515009-1

Sample Layers	Asbestos Content			
Gray Floor Tile	ND			
Black Mastic	ND			
Composite Non-Asbestos Content: < 1% Cellulose				
Sample Composite Homogeneity:	Moderate			

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Aerotech Laboratories, Inc EMLab ID: 1818335, Page 6 of 6



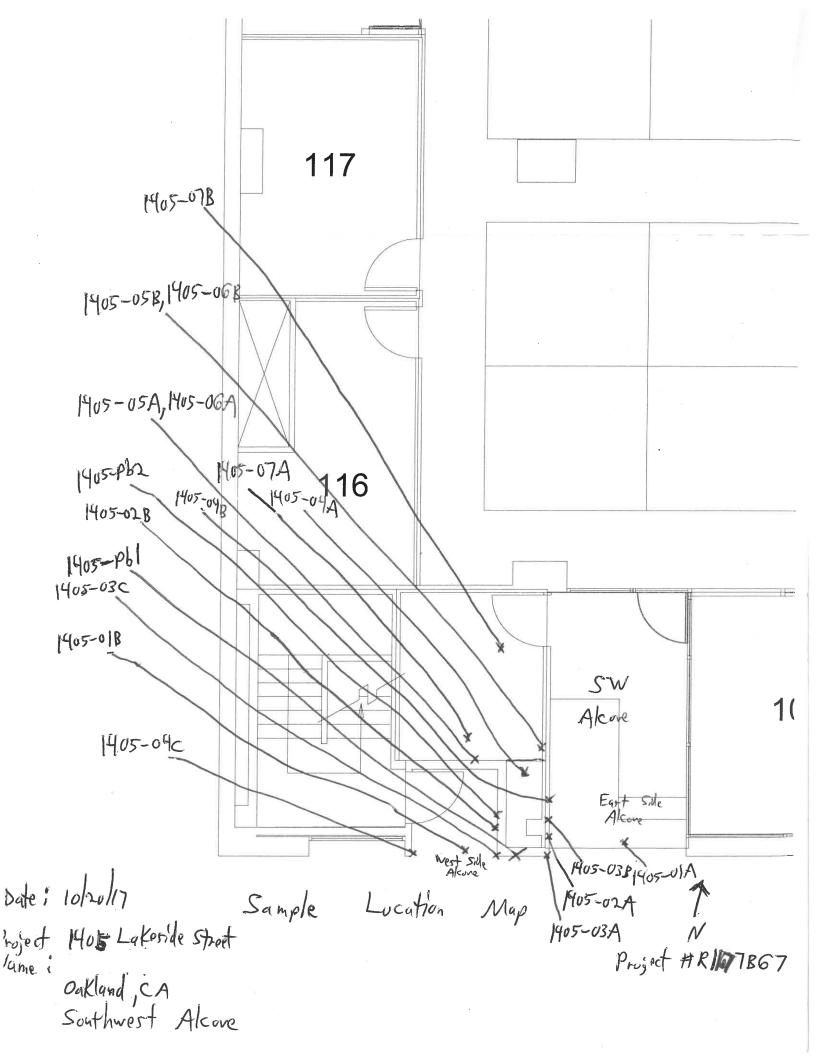


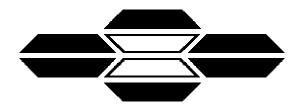
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☑PM - S. Stelner spsielner@terracon	☐PM – K. Schroeter kasschroeter@terracon.com) 1209 - X. Pilot .	1818335	AMPLE DATA SHEET
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	anticonti mentional de la contractativa Militaria.	Wmfrieszell@legracon.com	☐ Stop Analysis	at First Positive
□PM D. Ufferfligs dufferfligs@terracor	1.COM		Point Count A	ualysis (400-point)
Project Name/ Add	beautiful Designation and Designation of the Landson	Vasta 1911 CI		PAGE OF 2
- 11	Chara	eside, 14th St.	Side Door	AKUNET/OKLAND
		J. Alexander	Sampling Date:	10/20/17
Sample(s) sent to:	□MAL □AERO ☑EN			<u>.</u>
TAT Rush		3-5 days		
HM# 1-105-01	Material Description ConC	ete Floor		
Sample ID	Sample Location & Material L	ocation	Quantity:	
1405-01A	Southwest Algore	Eust Side Fl	ear	
1405-01B	Southwest Alcons	West Slde F	loor	
HM# 1405-02		-		
Sample ID	Material Description: Build Sample Location & Material Lo	Ing Expansion	Seglant	
1405-02	1 ()	· · · · · · · · · · · · · · · · · · ·	Quantity:	
1405-02	B Southwest Alco	<u> </u>	_\\	
	9 30W-4401, 741CA	e West Sine	_ W4//	———— !
HM# 1-05-03	Material Description: Extend	Charman	7	
Sample iD	Sample Location & Material Lo	Stuces with	Quantity:	
1905-031	Southwest Alex		Wall	
1405 -03R	Southwest Alson	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	W4 []	
405-030		he West Side	wall	
	Material Description: Exch.	Stucco		
Sample ID	Sample Location & Material Lo	ation	Quantity:	
1405-04A			· · ·	
1405-0413	Southwest Alcon		/a ,	
	Southwest Alcer		Wall	
	Material Description: Wall Sample Location & Material Loc	board with T	uping Mud	
177 -	~~ - - - - - - - - - - 	<u> </u>	/ Quantity!	
405-058		Koum South	Wall	
<u> </u>	South West Electrica	Krom East	W9 []	
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linewich et P	John Alexanden Sienatu	0/10	 	 _
elinguished By: received By:	1 - (- D) M V B		Date/Time:	10/20/17
linguished By:	Heidi Santos Signatu	·	Date/ Time:	<u> </u>
celved By:	Signatu	1	Date/Time: Date/Time:	10/23/47
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llerracon

Widterial Description
PM-M. Benefield PM-T. Kattchee Instense PM-T. Kattchee Instense PM-W. Freezell
Sample (D Sample Location & Material Location Sample (D
Stop Analysis at First Positive Stop Analysis at First Positive Stipe Stop Analysis (400-point)
Project Name Address Building No. 405 La Keride 44h St. Side Day A cycer 10. Project Name Address Building No. 405 La Keride 44h St. Side Day A cycer 10. Project Resource 56 Sampled By: 5.5 days Hime 45-06 Material Description 46 La Catton Guantity: 405-06 Southwest Electrical Runa South Wall 405-06 Material Description: 12 Sample 10 Sample 10 Sample 10 Sample 10 Sample Location & Material Location Runa South Wall 405-06 Material Description: 12 Show Very With Black Master County: 405-06 Sample Location & Material Location Runa Fair Wall 405-07 Material Description: 12 Show Very With Black Master County: 405-07 Southwest Electrical Runa Floor Square feet 105-07 Sample Location & Material Description: Material Description: Sample 10 Sample Location & Material Location Material Description: Sample 10 Sample Location & Material Location
Projectif R & RG 7 Sampled By: J. Alexander Sampling Date: 10 20 17 Sample(s) sent to: MAL AERO NEMLAB Other TAT Rush 24HRS 48IIR 73-5 days HMM 105-06 Material Description Gray Base Cove with 12 con Adher Sample ID Sample Location & Material Location Quantity: 1405-06 Southwest Electrical Roch Eart val HMM 105-07 Material Description: 12 Gray VPT with Black Mastrice Sample ID Sample Location & Material Location Quantity: 105-07 Southwest Electrical Roch Eart val 105-07 Southwest Electrical Roch Flar Quantity: 105-07 Southwest Electron Right Flar Survey HMM Material Description: Sample ID Sample Location & Material Location Right Flar Survey HMM Material Description: Sample ID Sample Location & Material Location
Projectif R & RG 7 Sampled By: J. Alexander Sampling Date: 10 20 17 Sample(s) sent to: MAL AERO NEMLAB Other TAT Rush 24HRS 48IIR 73-5 days HMM 105-06 Material Description Gray Base Cove with 12 con Adher Sample ID Sample Location & Material Location Quantity: 1405-06 Southwest Electrical Roch Eart val HMM 105-07 Material Description: 12 Gray VPT with Black Mastrice Sample ID Sample Location & Material Location Quantity: 105-07 Southwest Electrical Roch Eart val 105-07 Southwest Electrical Roch Flar Quantity: 105-07 Southwest Electron Right Flar Survey HMM Material Description: Sample ID Sample Location & Material Location Right Flar Survey HMM Material Description: Sample ID Sample Location & Material Location
Sample(s) sent to: MAL
TAT Rush 24HRS 48HR 3-5 days HMB 145-06 Material Description & Gray Base Cove with yellow Aches Sample ID Sample Location & Material Location Quantity: 405-06 A Southwest Electrical Room South Wall HMH 15-07 Material Description: 12 Gray VCT with Black Masterial Location Sample ID Sample Location & Material Location Quantity: 405-07 Southwest Electron Room VCT with Black Masterial Location Quantity: 405-07 Southwest Electron Room VCT with Black Masterial Location Room Southwest Electron Room Room Southwest Electron Room For Southwest Electron Room
HM# 105-06 Material Description 2 Gray Base Cove with Vellow Acher Sample ID Sample Location & Material Location Quantity: 1405-06 & Southwest Electrical Roch Eart wall HM# 105-07 Material Description: 12 Gray Vet with Black Mash c Sample ID Sample Location & Material Location Right Gar Bush square for the first of the sample continuent to
Sample ID Sample Location & Material Location Quantity: 1905-06 A Southwest Electrical Room South was sample ID HM# 105-06 B Southwest Electrical Room Entrine HM# 105-07 Material Description: Sample ID Sample Location & Material Location Quantity: 1905-07 Southwest Electron Room Room 1905-07 Southwest Electron Room 1905-07 Southwest Electron Room HM# 105-07 Southwest Electron Room 1905-07 Southwest Electron Room HM# 105-07 Southwest Electron Sample ID Sample Location & Material Location Sample ID Sample Location & Material Location
105-06 Southwest Electrical Room South Wall 105-06 Southwest Electrical Room South Wall HM# 105-07 Material Description: 1 Grow VCT with Black Masterial Location Sample ID Sample Location & Material Location Quantity: 105-07 Southwest Electrical Room Floor By square feet 105-06 Sample Location & Material Description: Sample ID Sample Location & Material I position Company
HM# 105-07 Material Description: 12 Dray VCT with Black Master Coation Sample ID Sample Location & Material Location Quantity: 105-07 Southwest Electrical Right Four 80 square feet HM# Material Description: Sample ID Sample Location & Material Location Material Description: Sample ID Sample Location & Material Location
HM# 105-0) Material Description: 12 Oray VCT with Black Mastrice Location & Material Location Quantity: 105-07 South west Electrical Right Floor 80 square feet HM# Material Description: Sample ID Sample Location & Material Location
Sample ID Sample Location & Material Location / With Black Mastrice 195-974 Southwest Electron Right Floor By Square feet 195-978 Southwest Electron Right Floor By Square feet 195-978 Southwest Electron Room Floor 1997
Sample ID Sample Location & Material Location / With Black Mastrice 195-974 South west Electron Right Floor By Square feet 195-978 South west Electron Right Floor By Square feet 195-978 South west Electron Room Floor 1997 19
HM# Material Description: Sample ID Sample Location & Material Location
HM# Material Description: Sample ID Sample Location & Material I position
HM# Material Description: Sample ID Sample Location & Material Location
Sample ID Sample Location & Material Location
Sample Location & Material Location
- Quantity:
IM# Material Description:
Sample ID Sample Location & Material Location Quantity:
Mill. Material D
material Description:
ample ID Sample Location & Material Location Quantity:
nquished By: John Assignatures All Detections 14
eved By: Field Santos Signature Date Time: 10/20/1
Date/Time: NO 2/10
Signature Date/Time:
1466 66th Street Emeryville CA 94608 Fel: (510) 547-7771 Fax: (510) 547-1983





ASBESTOS TEM LABORATORIES, INC.

EPA Interim Method Polarized Light Microscopy Analytical Report

Laboratory Job # 359739

600 Bancroft Way, Ste. A Berkeley, CA 94710 (510) 704-8930 FAX (510) 704-8429 www.asbestostemlabs.com

With Branch Offices Located At: 1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431 Ph. (775) 359-3377





Berkeley, CA

Aug-20-18

Steff Steiner Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608

RE: LABORATORY JOB # 359739

Polarized light microscopy analytical results for 8 bulk sample(s) with 6 sample split(s)

Job Site: 1401 Lakeside Dt. - 12th Floor

Job No.: R1187902

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into a standard report format and reviewed by the authorized signatory before being released to the client.

Sincerely Yours,

Lab Manager

ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Note: Test samples will be stored for three months after data of receipt, after which they will be properly disposed unless client makes other arrangements with the laboratory.

EPA Method 600/R-93/116 or 600/M4-82-020

Page:

<u>1</u> of

Contact: Steff Steiner Samples Indicated: 8 Report No. 359739

Reg. Samples Analyzed: 8
Address: Terracon Consultants, Inc.
Split Layers Analyzed: 6
Date Submitted: Aug-20-18
Date Reported: Aug-20-18

1466 66th Street

Fraggraville, CA 04608

Job Site / No. 1401 Lakeside Dt. - 12th Floor

Emeryville, CA 94608 Job Site / No. 1401 Lakeside Dt. - 12th

		OTHED DATA	
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD LAB
1401-12-1A	None Detected	1)1-5% Fiberglass 2)95-99% GlassFoam, Opq	2'x4' White Pinhole Fissure Act - 12th Floor - #1219 A - (S)
Lab ID # 1434-03766-001		3) Aug-20-18 4) Aug-20-18	Ceiling Tile-Grey
1401-12-1B	None Detected	1)1-5% Fiberglass 2)95-99% GlassFoam, Opq	2'x4' White Pinhole Fissure Act - 12th Floor - #1219 A - (N)
Lab ID # 1434-03766-002		3) Aug-20-18 4) Aug-20-18	Ceiling Tile-Grey
1401-12-2A	None Detected	1) 1-5% Cellulose 2) 95-99% Opq, Gyp	DW with Joint Comp 12th Floor - #1219A - (N)
Lab ID # 1434-03766-003A		3) Aug-20-18 4) Aug-20-18	Drywall-White
1401-12-2A	None Detected	1)1-5% Cellulose 2)95-99% Calc, Opq	DW with Joint Comp 12th Floor - #1219A - (N)
Lab ID # 1434-03766-003B		3) 4) Aug-20-18	JointCom/Text-Off-White
1401-12-2B	None Detected	1) 1-5% Cellulose 2) 95-99% Opq, Gyp	DW with Joint Comp 12th Floor - #1219A - (S)
Lab ID # 1434-03766-004A		3) Aug-20-18 4) Aug-20-18	Drywall-White
1401-12-2B	None Detected	1)1-5% Cellulose 2)95-99% Calc, Opq	
Lab ID # 1434-03766-004B		3) 4) Aug-20-18	JointCom/Text-Off-White
1401-12-3A	None Detected	1) None Detected 2) 99-100% Opq, Calc, Bndr	4" Black Base Cove with Glue - 12th Floor - #1219A - (N)
Lab ID # 1434-03766-005A		3) Aug-20-18 4) Aug-20-18	Baseboard-Black
1401-12-3A	None Detected	1) None Detected 2) 99-100% Glue	4" Black Base Cove with Glue - 12th Floor - #1219A - (N)
Lab ID # 1434-03766-005B		3) 4) Aug-20-18	Mastic-White
1401-12-3B	None Detected	1) None Detected 2) 99-100% Opq, Calc, Bndr	4" Black Base Cove with Glue - 12th Floor - #1219A - (S)
Lab ID # 1434-03766-006A		3) Aug-20-18 4) Aug-20-18	Baseboard-Black
1401-12-3B	None Detected	1) None Detected 2) 99-100% Glue	
Lab ID # 1434-03766-006B		3) 4) Aug-20-18	Mastic-White

EPA Method 600/R-93/116 or 600/M4-82-020

Page:

2 of

Contact: Steff Steiner

Samples Indicated: 8 Report No. 359739

Reg. Samples Analyzed: 8 Data Submitted: Aug 20.

Address: Terracon Consultants, Inc.

Reg. Samples Analyzed: 8

Date Submitted: Aug-20-18

Date Reported: Aug-20-18

1466 66th Street

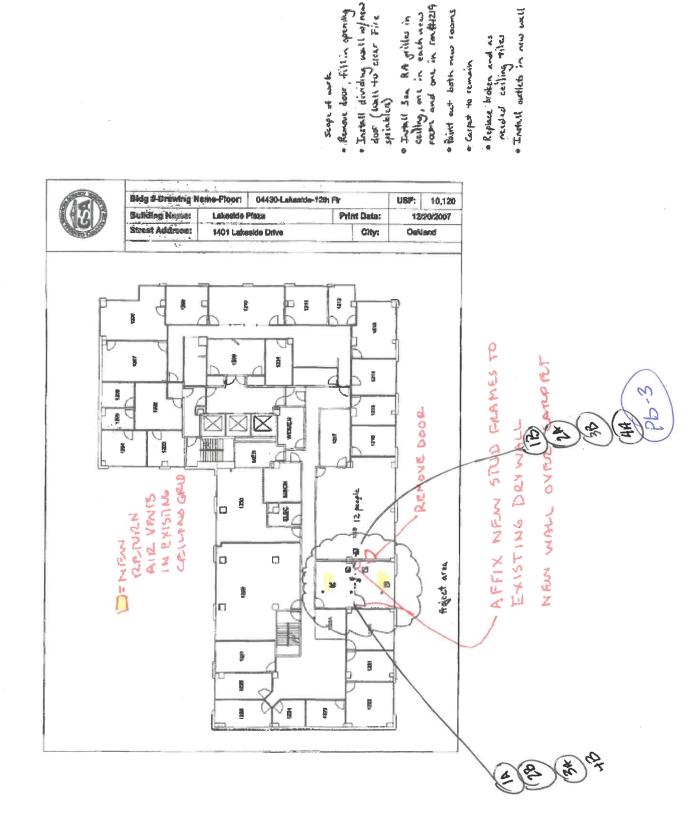
Emeryville, CA 94608 Job Site / No. 1401 Lakeside Dt. - 12th Floor

R1187902

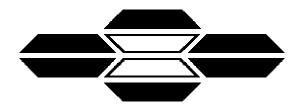
		R1187902			
SAMPLE ID	ASBESTOS % TYPE	OTHER I 1) Non-Asbest 2) Matrix Mate 3) Date/Time 0 4) Date Analyz	os Fibers rials Collected	DESCRIPTION FIELD LAB	
1401-12-4A	None Detected			Carpet Sq 2'x2' - Glue - 12th Floor - #1219A - N	
Lab ID # 1434-03766-007A		3) Aug-20-18	4) Aug-20-18	Mastic-Yellow	
1401-12-4A	None Detected	1)1-5% Cellulose 2)95-99% Gyp, Opq	,	Carpet Sq 2'x2' - Glue - 12th Floor - #1219A - N	
Lab ID # 1434-03766-007B		3)	4) Aug-20-18	LevelCmpd-Off-White	
1401-12-4B	None Detected	1)None Detected 2) 99-100% Glue		Carpet Sq 2'x2' - Glue - 12th Floor - #1219A - (S)	
Lab ID # 1434-03766-008A		3) Aug-20-18	4) Aug-20-18	Mastic-Yellow	
1401-12-4B	None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq			
Lab ID # 1434-03766-008B		3)	4) Aug-20-18	LevelCmpd-Off-White	
		1) 2)			
Lab ID #		3)	4)		
		1)			
Lab ID #		3)	4)		
		1) 2)			
Lab ID #		3)	4)		
		1) 2)			
Lab ID #		3)	4)		
		1) 2)			
Lab ID #		3)	4)		
		1) 2)			
Lab ID #		3)	4)		



Received By: Relinquished By: Received By:	Signature: Signature: Signature:	Date/Time: Date/Time: Date/Time:
Relinquished By:	M. Reed Signature: M. 2	
HM# Sample ID	Material Description: Sample Location & Material Location	Quantity:
401-12-43	1274 FLOOR - # 1219A - N	
Sample ID	Material Description: CARPER So. 2'x 2' - 6 Sample Location & Material Location	کسو Quantity:
401- 12- 3A √ 33	12TH FLOOR - #1219 A - (N) 12TH FLOOR - #1219 A (S)	
HM# นอ\- 12-03 Sample ID	Material Description: 4" BLACK BASE COVE Sample Location & Material Location	WITH GLUE Quantity:
HOI-12- 24 6 - 28	12TH FLOOR - # 1219A - (N)	
HM# (401-12-02 Sample ID	Material Description: Dw with Joint com? Sample Location & Material Location	. Quantity:
401-12 - 1A	12TH TLOOR - #12194 - (S)	
HM# 1401- 12-01 Sample ID	Material Description 2'x 4' WHITE PNULLE FIS Sample Location & Material Location	Quantity:
ample(s) sent to: AT Rush	☐ MAL ☐ AERO ☐ EMLAB ☐ Other 24HRS ☐ 48HR ☐ 3-5 days	
roject Name/ Addr roject#R11		Sampling Date: 8-20-18
PM- M. Benefield msbenefield@terraco		Point Count Analysis (400-point)
PM – M. Bryant mvbryant@terracon.co	□PM – T. Kattchee □PM – W. Frieszell	▼ PLM Analysis (Analyze all samples) Stop Analysis at First Positive
PM - S. Steiner spsteiner@terracon.co	PM − K. Schroeter PM − K. Pilgrim kmschroeter@terracon.com kmpilgrim@terracon.com	ACM BULK SAMPLE DATA SHEET



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ASBESTOS TEM LABORATORIES, INC.

EPA Interim Method Polarized Light Microscopy Analytical Report

Laboratory Job # 360736

600 Bancroft Way, Ste. A Berkeley, CA 94710 (510) 704-8930 FAX (510) 704-8429 www.asbestostemlabs.com

With Branch Offices Located At: 1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431 Ph. (775) 359-3377





Oct-05-18

Steff Steiner Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608

RE: LABORATORY JOB # 360736

Polarized light microscopy analytical results for 16 bulk sample(s) with 5 sample split(s)

Job Site: 1401 Lakeside Dr, Oakland, CA

Job No.: R1187B79

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into a standard report format and reviewed by the authorized signatory before being released to the client.

Sincerely Yours,

Lab Manager

ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Note: Test samples will be stored for three months after data of receipt, after which they will be properly disposed unless client makes other arrangements with the laboratory.

EPA Method 600/R-93/116 or 600/M4-82-020

Page:

Date Reported: Oct-05-18

<u>1</u> of

16 Report No. Samples Indicated: 360736 Contact: Steff Steiner Reg. Samples Analyzed: 16 Date Submitted: Oct-03-18 Split Layers Analyzed: 5 Address: Terracon Consultants, Inc.

1466 66th Street

Job Site / No. 1401 Lakeside Dr, Oakland, CA Emeryville, CA 94608

Emeryvine, CA 7400	50	R1187B79		
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		DESCRIPTION FIELD LAB
01A	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Opq		Room#123 South wall
Lab ID # 1434-03916-001A		3)	4) Oct-05-18	Drywall-White
01A	None Detected	1)None Detected 2) 99-100% Opq, Calc	;	Room#123 South wall
Lab ID # 1434-03916-001B		3)	4) Oct-05-18	JointCom/Text-Off-White
01B	None Detected	1) 1-5% Cellulose 2) 95-99% gyp, Opq	-	Room#128 North wall
Lab ID # 1434-03916-002A		3)	4) Oct-05-18	Drywall-White
01B	None Detected	1)None Detected 2)99-100% Opq, Calc	;	
Lab ID # 1434-03916-002B		3)	4) Oct-05-18	JointCom/Text-Off-White
02A	None Detected	1) 1-5% Cellulose 2) 95-99% gyp, Opq		Room#123 South wall
Lab ID # 1434-03916-003A		3)	4) Oct-05-18	Drywall-White
02A	None Detected	1)None Detected 2)99-100% Opq, Calc	:	
Lab ID # 1434-03916-003B		3)	4) Oct-05-18	JointCom/Text-Off-White
02B	None Detected	1)None Detected 2)99-100% Glue		Room#128 North wall
Lab ID # 1434-03916-004		3)	4) Oct-05-18	Mastic-Yellow
03A	None Detected	1)None Detected 2)99-100% Glue		Room#123 South
Lab ID # 1434-03916-005		3)	4) Oct-05-18	Mastic-Yellow
03B	None Detected	1)None Detected 2)99-100% Glue		Room#123 North
Lab ID # 1434-03916-006		3)	4) Oct-05-18	Mastic-Yellow
04A	None Detected	1)None Detected 2)99-100% Qtz, Calc		Room#123
Lab ID # 1434-03916-007		3)	4) Oct-05-18	CerTile-Grey

EPA Method 600/R-93/116 or 600/M4-82-020

Page:

2 of

Contact: Steff Steiner

Samples Indicated: 16 Report No. 360736

Reg. Samples Analyzed: 16 Data Submitted: Oct 03.15

Address: Terracon Consultants, Inc.

Reg. Samples Analyzed: 16

Split Layers Analyzed: 5

Date Submitted: Oct-03-18

Date Reported: Oct-05-18

1466 66th Street
Emeryville, CA 94608

Job Site / No. 1401 Lakeside Dr, Oakland, CA

R1187B79

		R1187B79	
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD LAB
04B	None Detected	1) None Detected 2) 99-100% Qtz, Calc	Room#128
Lab ID # 1434-03916-008		3) 4) Oct-05-1	8 CerTile-Grey
05A	None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Room#228 West wall
Lab ID # 1434-03916-009A		3) 4) Oct-05-1	8 Drywall-White
05A	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Opq	Room#228 West wall
Lab ID # 1434-03916-009B		3) 4) Oct-05-1	8 JointCom/Text-Off-White
05B	None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Room#222 East wall
Lab ID # 1434-03916-010A		3) 4) Oct-05-1	8 Drywall-White
05B	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Opq	
Lab ID # 1434-03916-010B		3) 4) Oct-05-1	8 JointCom/Text-Off-White
06A	None Detected	1) None Detected 2) 99-100% Glue	Room#228 West wall
Lab ID # 1434-03916-011		3) 4) Oct-05-1	8 Mastic-White
06B	None Detected	1) None Detected 2) 99-100% Glue	Room#222B East wall
Lab ID # 1434-03916-012		3) 4)Oct-05-1	8 Mastic-White
07A	None Detected	1) None Detected 2) 99-100% Glue	Room#228 West
Lab ID # 1434-03916-013		3) 4) Oct-05-1	8 Mastic-Yellow
07B	None Detected	1) None Detected 2) 99-100% Glue	Room#222B East
Lab ID # 1434-03916-014		3) 4) Oct-05-1	8 Mastic-Yellow
08A	None Detected	1) 5-10% Cellulose 2) 90-95% Opq, GlassFoam	Room#228
Lab ID # 1434-03916-015		3) 4)Oct-05-1	8 Ceiling Tile-Grey

EPA Method 600/R-93/116 or 600/M4-82-020

Page:

<u>3</u> of

Contact: Steff Steiner

Samples Indicated: 16 Report No. 360736

Reg. Samples Analyzed: 16 Date Submitted: Oct-03-18

Address: Terracon Consultants, Inc.

Split Layers Analyzed:

5

Date Reported: Oct-05-18

1466 66th Street
Emeryville, CA 94608

Job Site / No. 1401 Lakeside Dr, Oakland, CA

R1187B79

		R1187B79	
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD LAB
08B	None Detected	1) 5-10% Cellulose 2) 90-95% Opq, GlassFoam	Room#222B
Lab ID # 1434-03916-016		3) 4) Oct-05-18	Ceiling Tile-Grey
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	



	*** <u>F-MAIL REPORT TO</u> : ***BELOW PROJECT MANAGER (PM)*** ***ADDITIONAL RECIPIENTS*** se.wallen@terracon.com	ACM BULK SAMPLE DATA SHEET PLM Analysis (Analyze all samples)	
BPM – S. Stelner			
PM- M. Benefie msbenefield@terraco	n.com takattchee@terracon.com wmfrieszell@terracon.com	PAGE 1 OF 2	
Project Name/ Addr Project# R18		pling Date: 10/3/18	
Sample(s) sent to:	□MAL □AERO □EMLAB ₽Other TEM		
TAT Rush	☐ 24HRS		
HM# /	Material Description Description Description		
Sample ID	Sample Location & Material Location	Quantity:	
OIA	Room#123 Eooth wall		
OB	Room#128 Northwall		
HM# Z	Material Description: Cove boop with c	Quantity:	
Sample ID	Sample Location & Material Location	Quanuty:	
02A	Goon#123 South wall		
028	Room #128 North wall		
HM# 3	Material Description: Carpet nutic - selaw		
Sample ID	Sample Location & Material Location	Quantity:	
034	Room #123 South		
033	Room#128 North		
HM# e/	Material Description: Axy / / wiwce: / my file Sample Location & Material Location		
Sample ID	Sample Location & Material Location	Quantity:	
04A	Room#123 Room#128		
048	Room#128		
HM# 5 Sample ID	Material Description: Description & With 5/c	Quantity:	
05A 05B	Room# 228 west wall		
US \$5	NOOCH # 266 CRATWALL		
	Oto Dan Si MACL	Deta/Times to lar	
Relinquished By:	Signature: Signature:	Date/Time: 10/8/18 Date/ Time: 10/8/18	
Received By: Relinquished By:	Signature:	Date/Time:	
Received By:	Signature:	Date/Time:	

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

Updated 02.23.2018

Tierracon

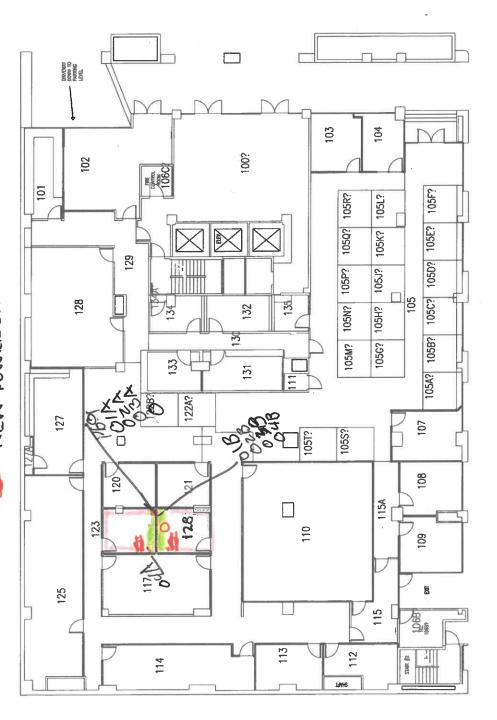
*** <u>E-MAIL REPORT TO</u> : SEE BELOW PROJECT MANAGER (PM)*** ***ADDITIONAL RECIPIENTS*** ACM BULK SAMPLE D	DATA SHEET
□ denise.wallen@terracon.com □ eric.dyer@terracon.com □ PLM Analysis (Analyze □ PM - S. Steiner □ PM - K. Schroeter □ PM - K. Pilgrim sosteiner@terracon.com kmpllgrim@terracon.com □ Point Count Analysis (40	sitive
	age <u>2</u> 0f <u>Z</u>
Project Name/ Address/ Building No. 146/ Cakesich dr. Oaklaud CH	
Project# RIB7B79 Sampled By: Stack. Sampling Date: 10/3/	18
Sample(s) sent to: MAL AERO EMLAB Other	
TAT Rush 24HRS 48HR 3-5 days	
HM# 6 Material Description Cavebase Mustic	,
Sample ID Sample Location & Material Location Quantity:	
OCA Room#228 westwall	
OGB Room # 222B Evot wall	:
HM# 7 Material Description: Carpet montic gellow	
Sample ID Sample Location & Material Location Quantity:	
37A Room # 228 west	
07B Room# ZZZB East	
	ĭ
HM# & Material Description: 2x4 lan iw ceiling tile	
Sample ID Sample Location & Material Location Quantity:	
ORA Rosen #228	
08B Room # 222B	
HM# Material Description:	
Sample ID Sample Location & Material Location Quantity:	
HM# Material Description:	
Sample ID Sample Location & Material Location Quantity:	
	· · · · · · · · · · · · · · · · · · ·
	2
Relinquished By: Stackoscor Signature: Date/Time: 10/5	118 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Received By: Relinquished By: Signature: Date/ Time: 0.13' 1.5' Date/Time:	-F12 1 2 5 F c
Received By: Signature: Date/Time: Date/Time:	

1050#580518



- PEMOVE WALL

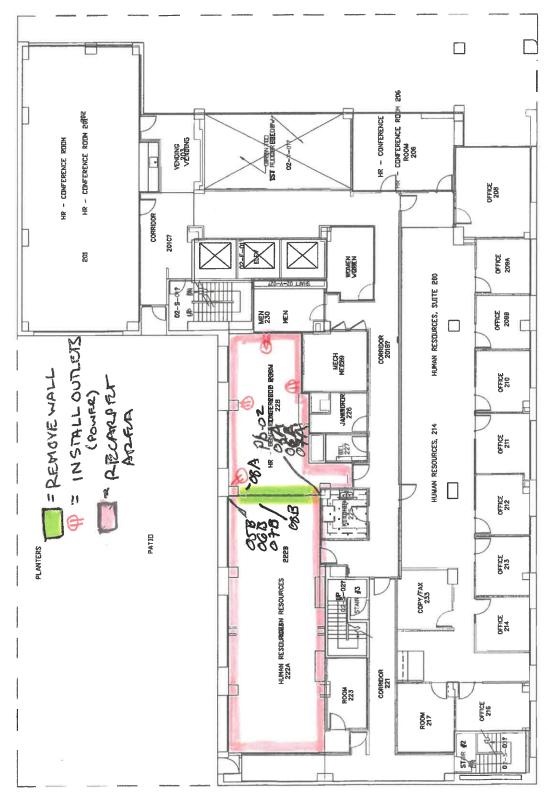
O = CORE FLOOR FOR OUTER



04430 - LAKESIDE PLAZA BUILDING - 1401 LAKESIDE DRIVE

COOPOINATE WITH JASHIN ALVAREZ 570, 208, 9594 IN AOVANCE TO BOOK

ROOMS



04430 - LAKESIDE PLAZA BUILDING - 1401 LAKESIDE DRIVE SECOND FLOOR PLAN

PLAN NORTH



EMSL Order: 091823311 **Customer ID:** 32VEOK25 **Customer PO:** 180062021

Project ID:

Attention: CHRIS BURNS Phone: (510) 346-8860

Vista Environmental Consulting, Inc. Fax:

2984 Teagarden St **Received Date:** 10/24/2018 8:00 AM

San Leandro, CA 94577 Analysis Date: 10/25/2018

Collected Date: 10/23/2018

Project: 180062021 - 13-5037 - COA-GSA - 1401 LAKESIDE, OAKLAND, CA ROOM #730 - 7TH FLOOR

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

		Non-Asbestos			<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
401-A-01-Wallboard 91823311-0001	WB/JC WHITE/ WHITE WALLS	White Non-Fibrous Homogeneous	2% Cellulose	80% Gypsum 18% Non-fibrous (Other)	None Detected
401-A-01-Joint Compound	WB/JC WHITE/ WHITE WALLS	White Non-Fibrous Homogeneous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
91823311-0001A					
401-A-01-Texture 91823311-0001B	WB/JC WHITE/ WHITE WALLS	White Non-Fibrous Homogeneous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
401-A-02-Drywall 91823311-0002	WB/JC WHITE/ WHITE WALLS	Gray Non-Fibrous Homogeneous	2% Cellulose	80% Gypsum 18% Non-fibrous (Other)	None Detected
401-A-02-Joint Compound 91823311-0002A	WB/JC WHITE/ WHITE WALLS	White Non-Fibrous Homogeneous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
401-A-02-Texture	WB/JC WHITE/ WHITE WALLS	White Non-Fibrous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
91823311-0002B		Homogeneous			
1401-B-01-Cove Base	BC/ MASTIC - 4" BLACK/ OFF WHITE	Black Non-Fibrous Homogeneous		20% Ca Carbonate 80% Matrix	None Detected
1401-B-01-Mastic	BC/ MASTIC - 4" BLACK/ OFF WHITE	White Non-Fibrous Homogeneous		70% Matrix 30% Non-fibrous (Other)	None Detected
1401-B-01-Compound	BC/ MASTIC - 4" BLACK/ OFF WHITE	White Non-Fibrous Homogeneous		70% Ca Carbonate 30% Non-fibrous (Other)	None Detected
1401-B-02-Cove Base	BC/ MASTIC - 4" BLACK/ OFF WHITE	Black Non-Fibrous		20% Ca Carbonate 80% Matrix	None Detected
1401-B-02-Mastic	BC/ MASTIC - 4" BLACK/ OFF WHITE	White Non-Fibrous Homogeneous		70% Matrix 30% Non-fibrous (Other)	None Detected
	A OT . 0\(\dagger{A}\) \(\dagger{A}\) \(\dagger{A}\		450/ Oallistan	400/ Davida	News Detected
401-C-01 91823311-0005	ACT - 2X4 WHITE, PINHOLE FISSURE - DROP CEILING	Gray Fibrous Homogeneous	45% Cellulose 45% Min. Wool	10% Perlite	None Detected
401-C-02	ACT - 2X4 WHITE, PINHOLE FISSURE -	Gray Fibrous	45% Cellulose 45% Min. Wool	10% Perlite	None Detected
91823311-0006	DROP CEILING	Homogeneous	70 /0 WIII I. WVOOI		

Initial report from: 10/25/2018 16:35:59



 EMSL Order:
 091823311

 Customer ID:
 32VEOK25

 Customer PO:
 180062021

Project ID:

Λ	na	lvc	+/c	٠,

Jared Martin (13)

Matthew Batonghacal

Matthew Batongbacal or Other Approved Signatory

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

Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial report from: 10/25/2018 16:35:59

№091823311



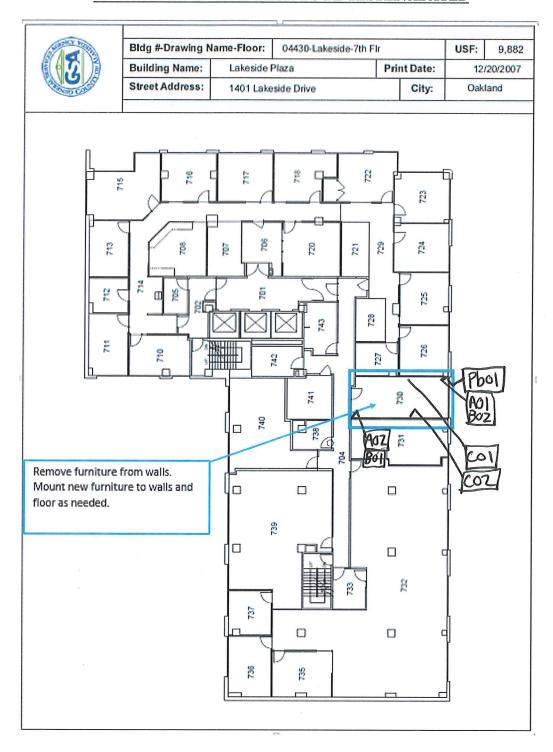
2984 TEAGARDEN STREET SAN LEANDRO, CA 94577

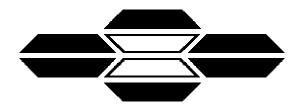
ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860 FAX 888.653.8889

						,
CLIENT: C	OA-GSA				DATE: 10/23/	18
LOCATION:_	1401 Lak	eside, Oak	land, CA.	PROJEC	T NUMBER: 180062021	
SAMPLED BY	c. CT	-	00M#730 HM FLOOR)		CAC OR SST NO:	<u>3-5</u> 037
BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1401	A	01	WB/JC	WHITE/WHITE,		
1401	A	02	1	V		80
1401	B	61	BYMASTIC	4" BLACK OFF WHITE	10 to 10 to	
1401	B	02		2: 1		100
1401	C	01	ACT of	PINHOLE FISSURE	(DROP CETLING)	
1401	C	02	J	1	1	
44		Esta Su				
		,	SAMPLE			
		6		7 80777		
ANALYTICAL	METHOD:	PLM 40	O PT COUNT	TURNAROUND TI	ME: SAME DAY 24HR	48 HR 3 DAY
DATA SENT	To:	Ch	HRISTOPHER BUR	NS VIA E-MAIL: CH QUEST	RISBURNS@VISTA-ENV.CO	ОМ 60
SPECIAL INS	TRUCTION	IS:				
CHAINO	FCUST	ODY:	21	Tale	- halie	111.00
1.	TRANSF	ER SIGNATI	URE A	PRINTED NAME		E
2	TRANSF	ER SIGNATI	URE	PRINTED NAME	DATE/TIM	E
3	TRANSF	ER SIGNATI	URE	PRINTED NAME	DATE/TIM	E
Page 1	OF	1				

FLOOR PLAN OF LOCATION TO BE TESTED/ABATED





ASBESTOS TEM LABORATORIES, INC.

EPA Interim Method Polarized Light Microscopy Analytical Report

Laboratory Job # 363482

600 Bancroft Way, Ste. A Berkeley, CA 94710 (510) 704-8930 FAX (510) 704-8429 www.asbestostemlabs.com

With Branch Offices Located At: 1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431 Ph. (775) 359-3377





Apr-17-19

Steff Steiner Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608

RE: LABORATORY JOB # 363482

Polarized light microscopy analytical results for 9 bulk sample(s) with 9 sample split(s)

Job Site: 1401 Lakeside - Room #629 Art. Comm.

Job No.: R1197409

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into a standard report format and reviewed by the authorized signatory before being released to the client.

Sincerely Yours,

Lab Manager

ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Note: Test samples will be stored for three months after data of receipt, after which they will be properly disposed unless client makes other arrangements with the laboratory.

EPA Method 600/R-93/116 or 600/M4-82-020

Page:

1 of

Contact: Steff Steiner

Samples Indicated: 9 Report No. 363482

Reg. Samples Analyzed: 9 Date Submitted: Apr-12-19

Address: Terracon Consultants, Inc. Split Layers Analyzed: 9

Date Reported: Apr-17-19

1466 66th Street

Emeryville, CA 94608 Job Site / No. 1401 Lakeside - Room #629 Art. Comm.

R1197409

		R1197409		
SAMPLE ID	ASBESTOS % TYPE	OTHER I 1) Non-Asbest 2) Matrix Mate 3) Date/Time O 4) Date Analyz	os Fibers rials Collected	DESCRIPTION FIELD LAB
1A	None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq		Drywall With Joint Comp South Wall #629
Lab ID # 1434-04261-001A		3) Apr-12-19	4) Apr-17-19	Drywall-White
1A	None Detected	1) 1-5% Cellulose 2) 95-99% Opq, Calc		Drywall With Joint Comp South Wall #629
Lab ID # 1434-04261-001B		3)	4) Apr-17-19	JointCom/Text-Off-White
1B	None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq		Drywall With Joint Comp North Wall #629
Lab ID # 1434-04261-002A		3) Apr-12-19	4) Apr-17-19	Drywall-White
1B	None Detected	1) 1-5% Cellulose 2) 95-99% Opq, Calc		
Lab ID # 1434-04261-002B		3)	4) Apr-17-19	JointCom/Text-Off-White
1C	None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq		Drywall With Joint Comp East Wall #629
Lab ID # 1434-04261-003A		3) Apr-12-19	4) Apr-17-19	Drywall-White
1C	None Detected	1) 1-5% Cellulose 2) 95-99% Opq, Calc		
Lab ID # 1434-04261-003B		3)	4) Apr-17-19	JointCom/Text-Off-White
2A	None Detected	1)None Detected 2)99-100% Calc, Bnd	lr	4" Black Base Cove Glue (Yellow) - South Wall - #629
Lab ID # 1434-04261-004A		3) Apr-12-19	4) Apr-17-19	Baseboard-Black
2A	None Detected	1) None Detected 2) 99-100% Glue		4" Black Base Cove Glue (Yellow) - South Wall - #629
Lab ID # 1434-04261-004B		3)	4) Apr-17-19	Mastic-Yellow
2B	None Detected	1)None Detected 2)99-100% Calc, Bnd	dr	4" Black Base Cove Glue (Yellow) - North Wall - #629
Lab ID # 1434-04261-005A		3) Apr-12-19	4) Apr-17-19	Baseboard-Black
2B	None Detected	1)None Detected 2)99-100% Glue		
Lab ID # 1434-04261-005B		3)	4) Apr-17-19	Mastic-Yellow

EPA Method 600/R-93/116 or 600/M4-82-020

Page:

Date Reported: Apr-17-19

2 of

9 Report No. Samples Indicated: 363482 Contact: Steff Steiner 9 Reg. Samples Analyzed: Date Submitted: Apr-12-19 9 Split Layers Analyzed: Address: Terracon Consultants, Inc.

1466 66th Street

Job Site / No. 1401 Lakeside - Room #629 Art. Comm. Emeryville, CA 94608

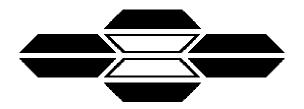
D1107400

<u>,</u>		R1197409			
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		DESCRIPTION FIELD LAB	
2C	None Detected	1) None Detected 2) 99-100% Calc, B	ndr	4" Black Base Cove Glue (Yellow) - East Wall - #629	
Lab ID # 1434-04261-006A		3) Apr-12-19	4) Apr-17-19	Baseboard-Black	
2C	None Detected	1) None Detected 2) 99-100% Glue			
Lab ID # 1434-04261-006B		3)	4) Apr-17-19	Mastic-Yellow	
3A	None Detected	1) None Detected 2) 99-100% Calc, B	ndr, Opq	Carpet Glue on Wht . VFT w/ Yellow Mastic - Room # 629	
Lab ID # 1434-04261-007A		3) Apr-12-19	4) Apr-17-19	Floor Tile-White	
3A	None Detected	1) None Detected 2) 99-100% Glue		Carpet Glue on Wht . VFT w/ Yellow Mastic - Room # 629	
Lab ID # 1434-04261-007B		3)	4) Apr-17-19	Mastic-Yellow	
3В	None Detected	1) None Detected 2) 99-100% Calc, B	ndr, Opq	Carpet Glue on Wht . VFT w/ Yellow Mastic - Room # 629 B	
Lab ID # 1434-04261-008A		3) Apr-12-19	4) Apr-17-19	Floor Tile-White	
3В	None Detected	1)None Detected 2)99-100% Glue			
Lab ID # 1434-04261-008B		3)	4) Apr-17-19	Mastic-Yellow	
3C	None Detected	1) None Detected 2) 99-100% Calc, B	ndr, Opq	Carpet Glue on Wht . VFT w/ Yellow Mastic - Room # 629 A	
Lab ID # 1434-04261-009A		3) Apr-12-19	4) Apr-17-19	Floor Tile-White	
3C	None Detected	1) None Detected 2) 99-100% Glue			
Lab ID # 1434-04261-009B		3)	4) Apr-17-19	Mastic-Yellow	
		1) 2)			
Lab ID #		3)	4)		
		1)			
Lab ID #		3)	4)		

JG > YZZ Terracon

### E-MAIL R PM - S. Stein speteiner@terracor PM- M. Benefi msbensfield@terracor	kmschroeter@terracon.com kmpilgrim@terracon.com PLM Analysis (Analyze all samples)
David block@terracc	n.com Engineering Assistant Engineering Assistant
Project Name/ Add Project# Rll	77409 Sampled By: M. REED Sampling Date: 4-12-19
Sample(s) sent to:	□ MAL □ ASB TEM □ EMLAB Ø Other ASB € 5105 TEM □ 24HRS Ø 3 DAM
HM# 01 Sample ID	Material Description DRYWALL WITH JOWT COMP. Sample Location & Material Location Quantity:
LA IB IC	South WALL # 629 NORTH WALL # 629 EAST WALL # 629
HM# O2- Sample ID	Material Description: 4" BLACK BASE COVE GLUE (YELLOW) Sample Location & Material Location Quantity:
2A 2B 2C	SOUTH WALL - 629 NORTH WALL - 6 EAST WALL - 6
HM# 03 Sample ID	Material Description: CARPET GLUE ON WHT. UFT W/ YELLOW MASTIC Sample Location & Material Location Quantity:
3A 3B 3C	Poom - # 629 (- # 629 B V - # 629 A
HM# Sample ID	Material Description: Sample Location & Material Location Quantity:
HM# Sample ID	Material Description: Sample Location & Material Location Quantity:
Relinquished By: Received By: Relinquished By:	M. REED Signature: M. 12.1 Date/Time: 4-12.19 MTD Signature: MTD Date/Time: Signature: Date/Time:

1401 LAKESIDE



ASBESTOS TEM LABORATORIES, INC.

EPA Interim Method Polarized Light Microscopy Analytical Report

Laboratory Job # 363645

600 Bancroft Way, Ste. A Berkeley, CA 94710 (510) 704-8930 FAX (510) 704-8429 www.asbestostemlabs.com

With Branch Offices Located At: 1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431 Ph. (775) 359-3377



CA DPH ELAP Lab No. 1866 NVLAP Lab Code: 101891-0 Berkeley, CA

Apr-25-19

Steff Steiner Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608

RE: <u>LABORATORY JOB # 363645</u>

Polarized light microscopy analytical results for 1 bulk sample(s) with 1 sample split(s)

Job Site: Alameda County - 1401 Lakeside Dr. Rm 623

Job No.: R1197460

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into a standard report format and reviewed by the authorized signatory before being released to the client.

Sincerely Yours,

Lab Manager

ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Note: Test samples will be stored for three months after data of receipt, after which they will be properly disposed unless client makes other arrangements with the laboratory.

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page:

1 of

Contact: Steff Steiner

Samples Indicated: 1 Report No. 363645

Reg. Samples Analyzed: 1 Data Submitted: Apr 24.1

Address: Terracon Consultants, Inc.

Reg. Samples Analyzed:

Split Layers Analyzed:

Date Submitted: Apr-24-19

Date Reported: Apr-25-19

1466 66th Street

Joh Site / No. Alameda County 1401 Lakesida Dr.

Emeryville, CA 94608 Job Site / No. Alameda County - 1401 Lakeside Dr. Rm 623

R1197460

		R1197460		
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		DESCRIPTION FIELD LAB
1401-01A	None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq		Drywall with Joint Compound - Rm 623 -North Wall @ East Side
Lab ID # 1434-04281-001A		3) Apr-24-19	4) Apr-25-19	Drywall-White
1401-01A	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Opq		Drywall with Joint Compound - Rm 623 -North Wall @ East Side
Lab ID # 1434-04281-001B		3)	4) Apr-25-19	JointCom/Text-Off-White
		1) 2)		
Lab ID #		3)	4)	
		1) 2)		
Lab ID #		3)	4)	
		1) 2)		
Lab ID #		3)	4)	
		1) 2)		
Lab ID #		3)	4)	
		1) 2)		
Lab ID #		3)	4)	
		2)		
Lab ID #		3)	4)	
		1) 2)		
Lab ID #		3)	4)	
		1) 2)		
Lab ID #		3)	4)	

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

363645 Nerracon

PM - S. Stein spsteiner@terracon PM- M. Benefimsbenefield@terracon PM- D. Block David.block@terracon	Manalysis (Analyze all samples) Mana
Project Name/ Add	1900 Sampled By: Stivey Sampling Date: 414 19
ample(s) sent to:	□ MAL X ASB TEM □ EMLAB □ Other
AT Rush	□ 24HRS □ 3-5 days
HM# () \ Sample ID	Material Description Down Wall w Joint Compound Sample Location & Material Location Quantity:
1401-01A	Rm 693 - North Wall C East Side
НМ#	Material Description:
Sample ID	Sample Location & Material Location Quantity:
НМ#	Material Description:
Sample ID	Sample Location & Material Location Quantity:
НМ#	Material Description:
Sample ID	Sample Location & Material Location Quantity:
НМ#	Material Description:
Sample ID	Sample Location & Material Location Quantity:
Relinquished By: Received By: Relinquished By: Received By:	Signature: Signature: Signature: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time:



Bldg #-Drawing Name-Floor:

04430-Lakeside-6th Flr

USF:

8,991

Building Name:

Lakeside Plaza

Print Date:

12/20/2007

Street Address:

1401 Lakeside Drive

City: Oal

Oakland

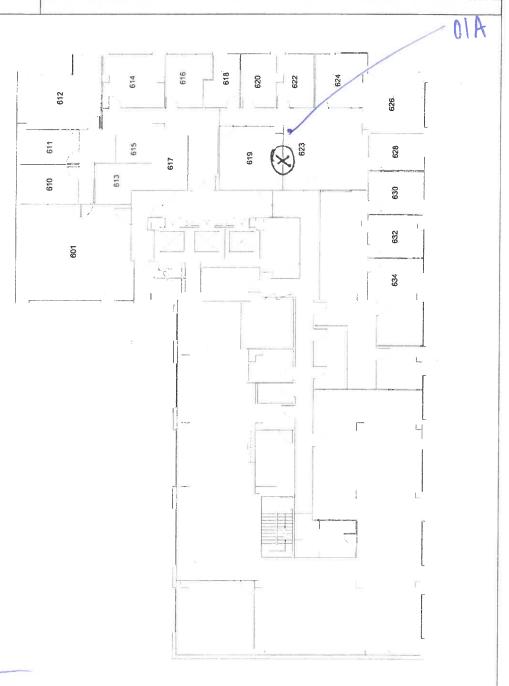


EXHIBIT C

COUNTY OF ALAMEDA MINIMUM INSURANCE REQUIREMENTS

Without limiting any other obligation or liability under this Agreement, the Contractor, at its sole cost and expense, shall secure and keep in force during the entire term of the Agreement or longer, as may be specified below, the following minimum insurance coverage, limits and endorsements:

TYPE OF INSURANCE COVERAGES		MINIMUM LIMITS	
Α	Commercial General Liability Premises Liability; Products and Completed Operations; Contractual Liability; Personal Injury and Advertising Liability	\$1,000,000 per occurrence (CSL) Bodily Injury and Property Damage	
В	Commercial or Business Automobile Liability All owned vehicles, hired or leased vehicles, non-owned, borrowed and permissive uses.	\$1,000,000 per occurrence (CSL) Any Auto Bodily Injury and Property Damage	
С	Workers' Compensation (WC) and Employers Liability (EL) Required for all contractors with employees	WC: Statutory Limits EL: \$1,000,000 per accident for bodily injury or disease	
D	Course of Construction /Builder's Risk or Installation Floater when applicable	\$ Value of Completed project or materials	

Endorsements and Conditions:

- ADDITIONAL INSURED: All insurance required above with the exception of Commercial or Business Automobile Liability, Workers' Compensation and Employers Liability, shall be endorsed to name as additional insured: County of Alameda, its Board of Supervisors, the individual members thereof, and all County officers, agents, employees, volunteers, and representatives. The Additional Insured endorsement shall be at least as broad as ISO Form Number CG 20 38 04 13. Builder's Risk/Installation floater shall name Alameda County as loss payee.
- 2. DURATION OF COVERAGE: All required insurance shall be maintained during the entire term of the Agreement. In addition, Insurance policies and coverage(s) written on a claims-made basis shall be maintained during the entire term of the Agreement and until 3 years following the later of termination of the Agreement and acceptance of all work provided under the Agreement, with the retroactive date of said insurance (as may be applicable) concurrent with the commencement of activities pursuant to this Agreement.
- 3. **REDUCTION OR LIMIT OF OBLIGATION:** All insurance policies, including excess and umbrella insurance policies, shall include an endorsement and be primary and non-contributory and will not seek contribution from any other insurance (or self-insurance) available to the County. The primary and non-contributory endorsement shall be at least as broad as ISO Form 20 01 04 13. Pursuant to the provisions of this Agreement insurance effected or procured by the Contractor shall not reduce or limit Contractor's contractual obligation to indemnify and defend the Indemnified Parties.
- 4. **INSURER FINANCIAL RATING:** Insurance shall be maintained through an insurer with a A.M. Best Rating of no less than A:VII or equivalent, shall be admitted to the State of California unless otherwise waived by Risk Management, and with deductible amounts acceptable to the County. Acceptance of Contractor's insurance by County shall not relieve or decrease the liability of Contractor hereunder. Any deductible or self-insured retention amount or other similar obligation under the policies shall be the sole responsibility of the Contractor.
- 5. **SUBCONTRACTORS:** Contractor shall include all subcontractors as an insured (covered party) under its policies or shall verify that the subcontractor, under its own policies and endorsements, has complied with the insurance requirements in this Agreement, including this Exhibit. The additional Insured endorsement shall be at least as broad as ISO Form Number CG 20 38 04 13.
- 6. **JOINT VENTURES:** If Contractor is an association, partnership or other joint business venture, required insurance shall be provided by one of the following methods:
 - Separate insurance policies issued for each individual entity, with each entity included as a "Named Insured" (covered party), or at minimum named as an "Additional Insured" on the other's policies. Coverage shall be at least as broad as in the ISO Forms named above.
 - Joint insurance program with the association, partnership or other joint business venture included as a "Named Insured".
- 7. **CANCELLATION OF INSURANCE:** All insurance shall be required to provide thirty (30) days advance written notice to the County of cancellation.
- 8. **CERTIFICATE OF INSURANCE:** Before commencing operations under this Agreement, Contractor shall provide Certificate(s) of Insurance and applicable insurance endorsements, in form and satisfactory to County, evidencing that all required insurance coverage is in effect. The County reserves the rights to require the Contractor to provide complete, certified copies of all required insurance policies. The required certificate(s) and endorsements must be sent as set forth in the Notices provision.

EXHIBIT D

EPOXY TERRAZO SPECIFICATIONS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes:
 - 1. Epoxy terrazzo with divider and accessory strips.
 - 2. Precast terrazzo units.

1.02 **DEFINITIONS**

A. NTMA: National Terrazzo and Mosaic Association, Inc.

1.03 PREINSTALLATION MEETINGS

- A. Pre installation Conference: The General Contractor shall conduct a conference at project site before Terrazzo Contractor begins installation.
 - 1. The General Contractor shall invite Terrazzo Contractor and representatives of the County.
 - 2. Review methods and procedures related to terrazzo including, but not limited to, the following:
 - a. Inspect and discuss condition of substrate and other preparatory work performed by other trades.
 - b. Review and finalize construction schedule and verify availability of materials, installer's personnel, equipment and facilities needed to make progress and avoid delays.
 - c. Review terrazzo mixes and patterns.
 - d. Review custom terrazzo mixes, designs and patterns.
 - e. Coordination with the work of other installers.

1.04 ACTION SUBMITTALS

- A. Product Data: Terrazzo Contractor shall submit Product Data for each type of product required for installation including:
 - 1. Strip materials.
 - 2. Sealer.

- B. Shop Drawings: Terrazzo Contractor shall prepare and submit Shop Drawings that include plans, elevations, sections, component details and attachments to other work. Include terrazzo installation requirements. Show layout of the following:
 - 1. Divider strips.
 - 2. Expansion joint strips.
 - 3. Terrazzo patterns.

C. Samples:

- 1. Terrazzo Contractor shall prepare and submit a maximum of three samples, sizes 12 by 12 inches for each color and type of terrazzo specified.
- 2. Terrazzo Contractor shall submit three samples, sizes 12 by 12 inches for each color and type of terrazzo tile specified.
- D. Samples for Initial Selection: Terrazzo Contractor shall submit NTMA "Color Palette Brochure" showing full range of colors and patterns available for each terrazzo type.

1.05 INFORMATIONAL SUBMITTALS

- A. Qualification Data: Terrazzo Contractor shall submit two copies of qualification data.
 - 1. Include list of projects indicating name and location of project, name of Owner, name and contact information for General Contractor.

B. Material Certificates:

- 1. Epoxy Resin: For each type of resin required indicating that materials meet specification requirements, by manufacturer.
- 2. Aggregate: For each type of aggregate required indicating compatibility with terrazzo mix, signed by aggregate supplier.

1.06 CLOSEOUT SUBMITTALS

A. Maintenance Literature: Terrazzo Contractor shall submit two copies of maintenance recommendations from NTMA.

1.07 QUALITY ASSURANCE

- A. Acceptable Epoxy Resin Manufacturer: with a record of successful in-service performance as well as sufficient production capacity to produce required materials.
- B. Acceptable Terrazzo Contractor: whose work has resulted in construction with a record of successful in-service performance.

- 1. Installer shall have completed terrazzo installations within the past 5 years of scale and complexity similar to the proposed installation.
- C. Source Limitations for Aggregates: Terrazzo Contractor shall obtain each color, grade, type and variety of granular materials from sources with resources to provide materials of consistent quality in appearance and physical properties.

1.08 DELIVERY, STORAGE AND HANDLING

- A. Materials shall be delivered to Project site in supplier's original wrappings and containers, labeled with source or manufacturer's name, material or product brand name, and lot number if any.
- B. Materials shall be stored in their original, undamaged packages and containers, in a location where they will not be exposed to direct sunlight.
 - 1. Epoxy components shall be stored in a space where the ambient temperature can be maintained 60 and 90 deg. F before use.

1.09 PROJECT CONDITIONS

- A. General Contractor shall provide sufficient water, temporary heat and light, and adequate electric power with suitable outlets connected and distributed for use within 100 feet of any working space.
- B. General Contractor shall provide temporary enclosures and other suitable methods to protect adjacent spaces from damage during installation.
 - 1. Maintain ambient temperatures in the area to receive terrazzo at not less than 60 deg. F.
 - 2. Maintain adequate ventilation in the area to receive terrazzo.
- C. Terrazzo Contractor shall protect other adjacent work from water and dust generated by grinding operations.

1.10 GUARANTEE

A. One year from date of substantial completion of terrazzo installation.

PART 2 - PRODUCTS

2.01 PERFORMANCE

A. Epoxy Resin:

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- 1. Test Specimens: Mix resin materials according to manufacturer's recommendation without aggregate added and cure for 7 days at 75 degrees plus or minus 2 deg. F and 50 percent plus / minus 2 percent relative humidity.
- 2. Cured test specimens shall meet or exceed the following requirements:
 - a. Hardness: 60 to 85 per ASTM D 2240, Shore D.
 - b. Minimum Tensile Strength: 3000 psi per ASTM D 638 for a 2-inch specimen made using a "C" die per ASTM D 412.
 - c. Minimum Compressive Strength: 10,000 psi per ASTM D 695, Specimen B cylinder.
 - d. Chemical Resistance: No deleterious effects by contaminants listed below after seven-day immersion at room temperature per ASTM D 1308.
 - 1) Distilled Water.
 - 2) Mineral Oil.
 - 3) Isopropanol.
 - 4) Ethanol.
 - 5) Soap solution at 1 percent.
 - 6) Sodium hydroxide at 10 percent solution.
 - 7) Hydrochloric acid at 10 percent solution.
 - 8) Hydrochloric acid at 30 percent solution.
 - 9) Detergent Solution at 0.025.
 - 10) Acetic Acid at 5 percent solution.

B. Epoxy Resin with Aggregate:

- 1. Test Specimens:
 - a. Mix epoxy resin according to manufacturer's recommendations and blend one volume of epoxy resin with 3 volumes of marble aggregate, consisting of:
 - 1) 60 percent No. 1 chip.
 - 2) 40 percent No. 0 chip.
 - b. Grind and grout with epoxy resin finished to a nominal 1/4-inch thickness.
 - c. Cure specimens 7 days at 75 deg. F plus / minus 2 deg. and 50 percent plus / minus 2 percent relative humidity.
- 2. Cured epoxy terrazzo specimens shall nominally meet the following requirements:
 - a. Flammability: Self- extinguishing, extent of burning 1/4 inch maximum according to ASTM D 635.
 - b. Coefficient of Linear Thermal Expansion: 0.000025 inch/inch per deg F for temperature range of minus 12 to plus 140 deg F per ASTM D 696.

C. Bond Strength of Epoxy Terrazzo: 300 psi in concrete according to ASTM D7234 (modified to cut slightly into concrete).

2.02 MATERIALS

- A. Epoxy Resin Matrix: Two-component, high solids product complying with specified performance requirements.
 - 1. Color: As required for mix indicated.
- B. Primer: As recommended, manufactured and supplied by epoxy resin manufacturer.
- C. Aggregates:
 - 1. Comply with NTMA gradation standards.
 - 2. Abrasion and Impact Resistance: Loss of 40 percent or less when tested according to ASTM C 131 (LA Abrasion).
 - 3. Aggregates shall contain no deleterious or foreign matter.
- D. Divider Strips:
 - 1. Strip Thickness: 16 gauge.
 - 2. Type: "L" strip: 3/8 inch by 1/2 inch.

2.03 MISCELLANEOUS ACCESSORIES

- A. Sealer: Terrazzo Contractor shall provide a non-ambering, clear sealer that is chemically neutral; does not impair terrazzo aesthetics or physical properties; is recommended by terrazzo matrix manufacturer. Sealers shall comply with the following:
 - 1. Comply with requirements of authorities having jurisdiction.
 - 2. Comply with ASTM D 2047.
 - 3. Water Based Sealer Properties: With pH factor between 7 and 10.
- B. Proportions for Epoxy Terrazzo Topping: Comply with resin supplier's recommendations.
- C. Mixing of Terrazzo Topping: Mix epoxy components with aggregates in accordance with manufacturer's recommendations.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. The General Contractor and County shall examine substrates and areas, with Terrazzo Contractor present, for compliance with requirements for installation tolerances and other conditions affecting performance of the work.
 - 1. Slab Flatness Tolerance: Subfloor is not to vary more than 1/4 inch from true plane in a 10 foot span.
 - 2. Cracks: Locate cracks and joints in concrete substrates. Verify location of control joints and expansion joints in epoxy terrazzo flooring.
 - a. If required to prevent cracks in concrete substrates transmitting through epoxy terrazzo flooring, the Terrazzo Contractor shall make a written recommendation to install a crack suppression membrane and include specific recommendations on type and location.
- B. The General Contractor shall be responsible for correcting non-conforming concrete substrates using materials compatible with epoxy terrazzo flooring system and as approved by the Terrazzo Contractor.
 - 1. Materials used to correct nonconforming conditions must be compatible with the selected epoxy system and be approved by the manufacturer of epoxy resin materials and Terrazzo Contractor.
- C. Terrazzo Contractor shall proceed with installation only after unsatisfactory conditions, including flatness tolerances, cracking, and excessive moisture vapor transmission have been corrected.

3.02 PREPARATION

- A. General Contractor shall broom clean area to receive terrazzo to remove loose chips and all foreign matter.
- B. Terrazzo Contractor shall mechanically abrade concrete surface.

3.03 POURED-IN-PLACE TERRAZZO INSTALLATION

- A. Strip Materials: Terrazzo Contractor shall install strip materials as follows:
 - 1. Divider and Control-Joint Strips:
 - a. Locate divider strips in locations indicated.
 - b. Install control joint strips back to back in locations indicated.
 - c. Install strips in epoxy adhesive without voids below strips.

- B. Placing Terrazzo:
 - 1. Prime subfloor in accordance with manufacturer's recommendations.
 - 2. Proportion and thoroughly blend the materials.
 - 3. Place mixture to achieve specified thickness.
- C. Poured in Place Terrazzo Base: Terrazzo Contractor shall provide mix color for terrazzo base to match **approved sample**.
 - 1. Terrazzo Contractor shall place and finish terrazzo base at the same time the terrazzo floor is being installed.
- D. Finishing: Terrazzo Contractor shall finish the terrazzo topping as follows:
 - 1. Rough Grinding:
 - a. Grind with 24 or finer grit stones or with comparable diamond abrasives.
 - b. Follow initial grind with 60/80 grit stones or with comparable diamond abrasives.
 - 2. Grouting:
 - a. Clean terrazzo with clean water and rinse. Allow to dry.
 - b. Apply epoxy grout per manufacturer's instructions.
 - c. Allow grout to cure.
 - 3. Fine Grinding/Polishing: Grind with 120 grit or with comparable diamond abrasives until all grout is removed from surface.
- E. Terrazzo Cleaning: Terrazzo Contractor shall clean finished terrazzo as follows:
 - 1. Remove grinding residue from terrazzo surface.
 - 2. Wash terrazzo surfaces immediately after final grinding of terrazzo flooring with water and allow surfaces to dry thoroughly.
- F. Sealing: Terrazzo Contractor shall seal terrazzo according to sealer manufacturer's written instructions.

3.04 PRECAST TERRAZZO INSTALLATION

- A. Terrazzo Contractor shall install precast terrazzo units as follows:
 - 1. Precast Terrazzo Base: Use **epoxy adhesive** to install precast terrazzo base over substrates indicated according to **ANSI 108.6**.

3.05 REPAIR

A. Terrazzo Contractor shall repair terrazzo areas that evidence lack of bond between topping and underbed according to NTMA's written recommendations.

3.06 PROTECTION

- A. After application of the sealer, the Work shall be ready for final inspection and acceptance by the Owner or his agent.
- B. The General Contractor shall protect the finished floor after the Terrazzo Contractor has completed final grinding and applied sealer to terrazzo surfaces.

END OF SECTION

Exhibit E - Optical Turnstile Specification

PART I - GENERAL

1.01 CSI MASTER FORMAT SECTIONS

- A. Section 11 14 00 Pedestrian Control Equipment (Gates/Turnstiles)
- B. Section 28 10 00 Electronics Access Control and Intrusion Detection
- C. Section 28 16 00 Intrusion Detection

1.02 REFERENCES

A. The Power supply unit (PSU) shall be UL certified

1.03 QUALITY ASSURANCE

A. Installer shall have a minimum of three (3) years experience installing optical turnstiles or similar equipment or shall supply a manufacturer-trained technician for Site Certification & Training following installation of the Optical Turnstiles.

1.04 SUBMITTALS

- A. Submit manufacturer's product literature including datasheet and drawing pack for specific model, including options.
- B. Provide high resolution photo.
- C. Provide Installation & Maintenance manual.
- D. Provide site specific drawings detailing product placement, arrangement, and wiring.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver equipment and materials to specified location in manufacturer's packaging undamaged, complete with installation instructions.
- B. Store off ground, under cover, protected from weather and construction activities. For periods of extended storage the equipment will be kept in an environment that regulates temperature and humidity. Use forklift, pallet jack, or specified number of personnel for moving equipment, observing manufacturer's safety instructions at all times.

1.06 PROJECT/SITE CONDITIONS

A. Install Optical Turnstile on level, finished floor, and in strict accordance with manufacturer's installation chapter in the provided Installation & Maintenance manual.

1.07 WARRANTY:

A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of optical turnstile system that fails in materials or workmanship within specified warranty period. Failures include, but are not limited to, the following: faulty circuit boards (PCB), infrared beams and power supply modules. Warranty Period: 1 year.

PART II - PRODUCTS

2.01 MANUFACTURER

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- A. Product must be able to be serviced, in warranty, by a company based in Alameda County.
- B. Product must have no more than a 90 calendar day lead time, order to delivery.
- C. Replacement parts to be available within 1 week, including shipping

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2.02 PRODUCT

- A. Optical Turnstile, with waist high barrier
- B. Alvarado SU5000 Optical Turnstile

2.03 CONSTRUCTION

A. Exterior:

- 1. End Panels: stainless steel or polyurethane.
- 2. Side Panels: stainless steel or polyurethane with polycarbonate filter windows for the infrared beams.
- 3. Encasement: stainless steel or polyurethane
- B. Decorative Tops:
 - 1. Stainless steel or polyurethane, with AMAG reader mounting locations.
- C. Turnstile Status Display
 - 1. Located on the Right Hand Side of each lane viewed from the entrance/exit
 - 2. The Indicator is provided by RGB LEDs
- F. Enclosure:
 - 1. Dimensions- Two (2) ADA accessable lane, side-by-side, total width no more than 96"
 - 2. Pedestal weight approx. 103lbs (47Kg) maximum.
 - 3. Unit enclosure shall provide an Ingress Protection rating of IP40.
- G. Movable Panels- etched with County Seal. County to provide graphic.

2.04 EQUIPMENT

- A. General: Three adjacent pedestals utilizing pulsed infrared beams to create an invisible electronic field between pedestals, monitoring the passage of individuals entering and leaving a facility, discriminating between people and nuisances (such as common briefcases, umbrellas, and rolling carts), to deter unauthorized individuals from passing through the lane. Lane widths to be 36" (914mm) may be accommodated subject to the application. All calibrations, feature set selections and diagnostics are built into the unit managed on board by the relevant processor cards. Must not require a Windows based PC to operate.
- B. Types of units: The system shall consist of a Transmit Pedestal (TX) and a Receive Pedestal (RX) to provide a single lane, and Interlane Pedestals (INT) to form additional lanes between the RX and TX pedestals.
- C. Capabilities:
 - 1. Detect and deter unauthorized persons from entering into the protected area.
 - 2. Detect unauthorized persons more than 1/4 inch (5 mm) at waist height, behind an authorized person, that is "tailgating" or "piggybacking."
 - 3. Detect direction of movement, that is, entry and exit.
 - 4. Verify entry into the protected area following authorization.
 - 5. Provide alarm outputs on detection of a violation by means of:
 - a. Local sounders and indicators
 - 6. Operate in bi-directional, single direction, no entry or free access modes.
 - 7. Minimize false alarms through the use of infrared beams connected to intelligent detection algorithms.
 - 8. Process a high number of people without security guard intervention, unless access is rejected by the system or a system anomaly occurs.
 - 9. Ensure a fast throughput, up to one person per second, subject to the access control system.
 - 10. Buffering multiple inputs from an access control system to maximize throughput.
 - 11. Easy to use.
 - 12. Allow free movement for wheelchair users with ADA width lanes.
 - 13. Allow safe emergency egress through a fire alarm input to open the glass panels.

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- 14. Entry and exit with an authorized card, biometric, or other credential.
- 15. Entry and exit that is unauthorized causing an alarm.
- 16. Authorized card being read by the system but no entry or exit taking place using an optional alarm configuration.
- 17. Card presented for entry but exit occurring causing an alarm.
- 18. Barrier Breakaway function- pressure on panels can force an emergency exit, with sound and visual alarms.

D. Optical System

- 1. Intelligently monitored infrared beam matrix: minimum 20 beam paths per lane.
 - a. Superfluous user behavior tolerated by the software without generating an alarm condition due to:
 - Partial passage through the beams and moving back out again.
 - ii. Hesitation in the beam field for less than a pre-selected number of seconds.
 - iii. Presenting a card for authorization while within the beam-field, but before completing passage through it.
- 2. Access request transaction speed: Time delay of no greater than 100ms in signaling passage through the beams and readying the turnstile for the next user except when a greater delay is caused by the attached access control system.
 - a. The optical system must be capable of throughput of up to 1 person per second.

E. Inputs:

1. Entry Visitor Request: Normally Open momentary closing switch contacts

F. Outputs:

- 1. Voltage-free relay contacts rated 24Vdc @ 500mA for the following functions for alarm indicators, and to provide turnstile and entry and exit door emulation.
- 2. Output to Access control System:
 - a. Access monitoring (used as confirmation of access after authorization)
 - i. Entry: Normally closed (opening for 1s)
 - ii. Exit: Normally closed. (opening for 1s)
 - b. Alarm 1: Normally closed.(closing for a minimum of 1s)
 - c. Alarm 2: Normally open (closing for 1s)
- 3. Two-Stage Audio/Visual Alarm System
 - a. First stage notifies user and guard that someone has entered the lane without authorization.
 - i. Allows user to back up and attempt authorization, before going into a full alarm.
 - ii. Guard becomes aware that a lane violation may occur.
 - b. Second stage notifies user and guard that someone has passed through the lane without authorization.
 - Notifies the user that they have passed through the lane without authorization.
 - ii. Guard becomes aware that a lane violation has occurred and to take appropriate action.
- 4. Audible Alarms: Provide for each lane triggered in an alarm condition.
 - a. Local alarm sounders.
 - b. Relay Contact: utilized to trigger external alarm systems.
 - c. Secondary sounder can be activated in response to an alarm event.
- 5. Status Display: Provide for each lane a visual indication of the status of the lane.
 - a. Standby

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- b. Please Proceed
- c. Lane Closed

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- d. Alarm.
- G. Power Requirements:
 - 1. Pedestal: Low voltage 24Vdc supply current 0.5A per lane.
 - a. Hazardous voltage must not be present at pedestal to ensure user safety.
 - 2. Power Supply Unit:
 - a. PSU to be remotely installed.
 - b. PSU input voltage 100Vac to 240Vac at 60/50Hz, connection by 5A fused spur.

2.05 FACTORY TESTING

A. Optical Turnstile shall be fully assembled and staged as a system at the factory to accommodate soak testing for a period of 48 hours at a minimum to ensure proper operation and electrical connectivity. System shall be inspected for mechanical, electrical and aesthetic condition prior to packaging and shipment.

2.06 SECURITY EQUIPMENT

- A. Card Readers: System compatible with AMAG control technologies for owner-provided card readers of suitable dimensions to be mounted onto pedestals. Must support integration of multiple card readers at each mounting location by manufacturer.
 - 1. Card Reader Mounting at pedestal ends:
 - a. Under, or surface-mounted
 - b. Option at pedestal ends behind acrylic window or surface-mounted.

2.07 ENVIRONMENTAL

- A. Product use: Provide:
 - 1. Energy consumption per lane
 - 2. Maintenance Interval minimum.

2.08 SUSTAINABILITY

- A. The product is recyclable at end of life. Provide documentation of the materials to be distributed to appropriate recycling facilities resulting in a very low residual waste of non-recyclable material.
 - 1. Stainless Steel (sheet material 1mm to 1.5mm thickness)
 - 2. Mild Steel (sheet material 1.2 to 3mm thickness)
 - 3. Plastics
 - 4. Printed circuit boards
 - 5. Special components e.g. power supply modules
- B. The product shall be supplied on reusable plastic pallets with recyclable carton packaging comprising of the following materials.
 - 1. Corrugated fiber board
 - 2. Foam
 - 3. Polyethylene

PART III - EXECUTION

3.01 SITE EXAMINATION

- A. Inspection: Installer / Integrator shall examine the installation and advise the contractor of any site conditions unacceptable for proper installation of product.
 - 1. Finished floor substrate must be dead level within the footprint of the turnstile.
 - 2. Main supply service for power supply and low voltage power out & control wiring must be installed.
- B. Installation: Turnstiles shall be installed in accordance with manufacturer's Installation & Maintenance manual.

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- C. Setup & Adjustment: Installer / Integrator shall perform initial equipment electronic adjustments to ensure proper performance after installation.
- D. Instruction: Installer / Integrator with a minimum of 3 years experience installing optical turnstiles shall furnish operator training for end user, or provide for Site Certification & Training services during installation.
- E. Cleaning: Clean metal, acrylic and glass surfaces carefully after installation to remove excess caulk, dirt, and labels.

END OF SECTION

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