COUNTY OF ALAMEDA

ADDENDUM No. 1

to

ALAMEDA COUNTY BID #902363

for

LAKESIDE BUILDING SECURITY IMPROVEMENTS

This County of Alameda, General Services Agency (GSA), Addendum has been electronically issued to potential bidders via e-mail and will also be posted on the GSA Contracting Opportunities website located at Alameda County Current Contracting Opportunities.

County of Alameda, General Services Agency
Bid No. 902363
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. # must be acknowledged on Document 00 41 13 Bid Form.**

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

ITEM	DESCRIPTION
1.	Exhibit B – Existing Conditions Reports
2.	Exhibit C – Insurance Requirements
3.	Exhibit D – Optical Turnstile Specifications

EXHIBIT B

EXISTING CONDITIONS REPORTS

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

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

04430

MICRO ANALYTICAL LABORATORIES, INC.

LEAD IN PAINT - FLAME AAS (SW846)

1023
Mike Benefield
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

PROJECT:
JOB NO. R1167544
1401 LAKESIDE

Micro Log In 218057
Total Samples 1
Date Sampled 04/25/2016
Date Received 04/25/2016
Date Analyzed 04/25/2016

Sample ID	Lead Concentration Weight Percent	mg/kg (ppm)	RDL
Client: 1401-PB-01 Lab: 218057-01 WHITE PAINT - DRYWALL - CEILING PENTHOUSE MRR	< 0.0081 %	< 81	0.00806 % 81 mg/kg

Technical Supervisor: _____ 4/25/2016 Analyst: TLN
Tess Tagorda, Chemistry Supervisor Date Reported

AIHA-LAP LLC ELLAP Accredited Laboratory, ID #101768. SOP M23-Paint. Samples are analyzed by Flame Atomic Absorption Spectrometry (AAS). U.S. EPA SW-846 Method 7420 is used for the instrumental analysis. Nitric acid and hydrogen peroxide digestion procedures are based on ASTM E-1645. Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. Note: due to software limitations, the number of reported significant figures does not necessarily reflect the uncertainty of the analysis. This report must not be reproduced except in full, without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed. Unit explanations: mg = milligrams; kg = kilograms; ppm = parts per million. N/A = Not Applicable. RDL = Report Detection Limit.

218057

Terracon

☐PM – S. Steiner spsteiner@terracon.com	☐ PM – K. Schroeter kmschroeter@terracon.com	☐ PM – K. Pilgrim kmpilgrim@terracon.com
☐PM – M. Bryant mvbryant@terracon.com	☐ PM – T. Kattchee takattchee@terracon.com	☐ PM – B. Gills regils@terracon.com
☐PM- M. Benefield msbenefield@terracon.com	☐ PM D. Ufferfilge dufferfilge@terracon.com	☐PM- M. Benefield msbenefield@terracon.com
☐PM – M. Bishop mrbishop@terracon.com	☐PM – W. Frieszell wmfrieszell@terracon.com	

LEAD PAINT
SAMPLE DATA SHEET

* Lead Analysis
☒ Flame AA (EPA 7420)
☐ TTLC

PAGE 1 OF 1

Project Name/ Address/ Building No. 1401 Lakeside **PO#** _____

Project# R1K7544 **Sampled By:** Mike B **Sampling Date:** 4/25/16

Sample(s) sent to: ☐ RGA ☐ EMSL ☐ Other _____ **TAT** ☐ Rush ☒ 24HRS ☐ 3-5 days

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

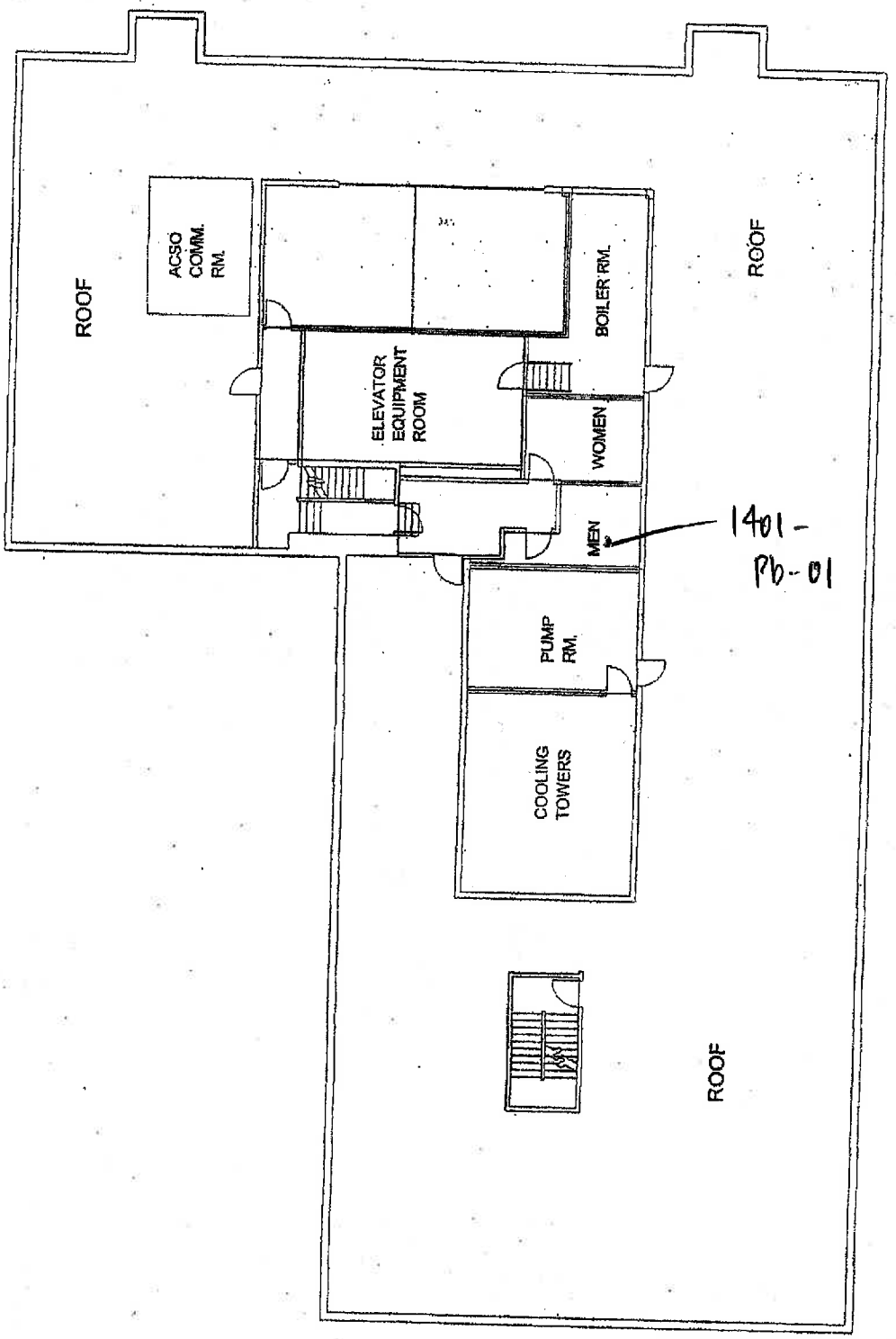
*****ADDITIONAL REPORT RECIPIENT(S):** _____ *******

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
1401-Pb-01	Paint Color: White Substrate: Drywall Component: Ceiling Sample Location: Bldg # _____ Unit # _____ Room Penthouse MER	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	

Relinquished By:	Mike B	**Signature:**	**Date/Time:** 4/25/16
Received By:		**Signature:**	**Date/ Time:** 4/25/16 15:30
Received By:		**Signature:**	**Date/Time:**

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

Bldg # Drawing Name-Floor:	04430-Lakeside-Penthouse	USF:	583
Building Name:	Lakeside Plaza	Permit Date:	6/19/2007
Street Address:	1401 Lakeside Drive	City:	Oakland



BLDG. 04430/1931

ASBESTOS TEM LABORATORIES, INC.

EPA 3050B (modified) / EPA 7420 (modified)
Atomic Absorption Spectroscopy
Lead Paint Analysis Report

Laboratory Job # **1434-01941**

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

ASBESTOS TEM LABORATORIES, INC

AIHA LAP, LLC
ACCREDITED LABORATORY
LAB # 101754
California DPH
ELAP ID #1866

Dec/23/2016

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

RE: LABORATORY JOB # 1434-01941
Atomic Absorption Spectroscopy analytical results for 1 paint sample(s).
Job Site: 1401 Lakeside Rm 1028
Job No.: R1167F47

Enclosed please find results for the atomic absorption spectroscopy (AA) metals analysis of one or more solid samples following procedures from EPA publication SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods". Sample preparation procedures were performed according to EPA 3050B (modified) acid digestion of sediments, sludges, and soils. Sample analysis procedures were performed by EPA 7420 (modified) direct aspiration flame analysis.

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

A portion of each sample is weighed out such that an aliquot of 1 to 2 grams is obtained for soils or solid waste, and ~0.2 grams is obtained for paint chips. The weighed sample material is then placed into a digestion vessel, transferred to a fume hood, heated at ~95 Deg. C, refluxed with nitric acid to solubilize the contained metals, and treated with hydrogen peroxide to oxidize any organic binder present in the sample material. High purity water is added to make a 50 ml volume for each sample.

AA analysis is performed on a microprocessor controlled Perkin Elmer AAnalyst 300 atomic absorption spectrophotometer, operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the calibration range. QC analyses are prepared and performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client. Note: Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Sincerely Yours,

Laboratory Manager
ASBESTOS TEM LABORATORIES, INC.

--- Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits. These results relate only to the sample(s) tested and must not be reproduced, except in full, with the approval of the laboratory. ---

ATOMIC ABSORPTION SPECTROSCOPY
LEAD PAINT ANALYSIS REPORT
EPA 3050B Digestion / EPA 7000B Analysis Methods

Contact:	S. Steiner
Address:	Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608
Samples Submitted:	1
Samples Analyzed:	1
Job Site / No.	1401 Lakeside Rm 1028 R1167F47
Report No.:	346490
Date Submitted:	Dec-22-16
Date Reported:	Dec-23-16

SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION
1401-Pb1 Lab ID # 1434-01941-001	Pb	< 42 mg/kg < 0.004 %	42 mg/kg 0.004 %	White DW Wall 1028 Sampling Date / Analysis Date Dec-23-16 / Analyzed Weight (g) 0.2363
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)

Analytical results posted above relate only to the material(s) tested.
The sample has not been blank corrected.

µg - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer Jo Ann Huerto

Jo Ann Huerto

Analyst Jie Zhang

Jie Zhang

346490

Terracon

☒ PM – S. Steiner sbsteiner@terracon.com	☐ PM – K. Schroeter kmschroeter@terracon.com	☐ PM – K. Pilgrim kmpilgrim@terracon.com
☐ PM – M. Bryant mybryant@terracon.com	☐ PM – T. Kaltchee takaltchee@terracon.com	☐ PM- M. Benefield msbenefield@terracon.com
☐ PM D. Ufferfilge dufferfilge@terracon.com	☒ PM – M. Bishop mrbishop@terracon.com	☐ PM – W. Frieszell wmfrieszell@terracon.com

LEAD PAINT
SAMPLE DATA SHEET

* Lead Analysis
☒ Flame AA (EPA 7420)
☐ TTLC

PAGE 1 OF 1

Project Name/ Address/ Building No. 1401 Lakeside Rm 1026

Project# R1607F47 **Sampled By:** Mike B **Sampling Date:** 12/22/16

Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☐ Quantem **Other** _____

TAT ☐ Rush ☐ 24HRS ☐ 48HRS ☐ 3-5 Day

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

***ADDITIONAL REPORT RECIPIENT(S): _____ ***

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
1401-Pb1	Paint Color: White Substrate: DW Component: Wall Sample Location: Bldg # _____ Unit # _____ Room 1026	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: Plaster Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	

Relinquished By: Mike B **Signature:** _____ **Date/Time:** 12/22/16

Received By: _____ **Signature:** _____ **Date/ Time:** _____

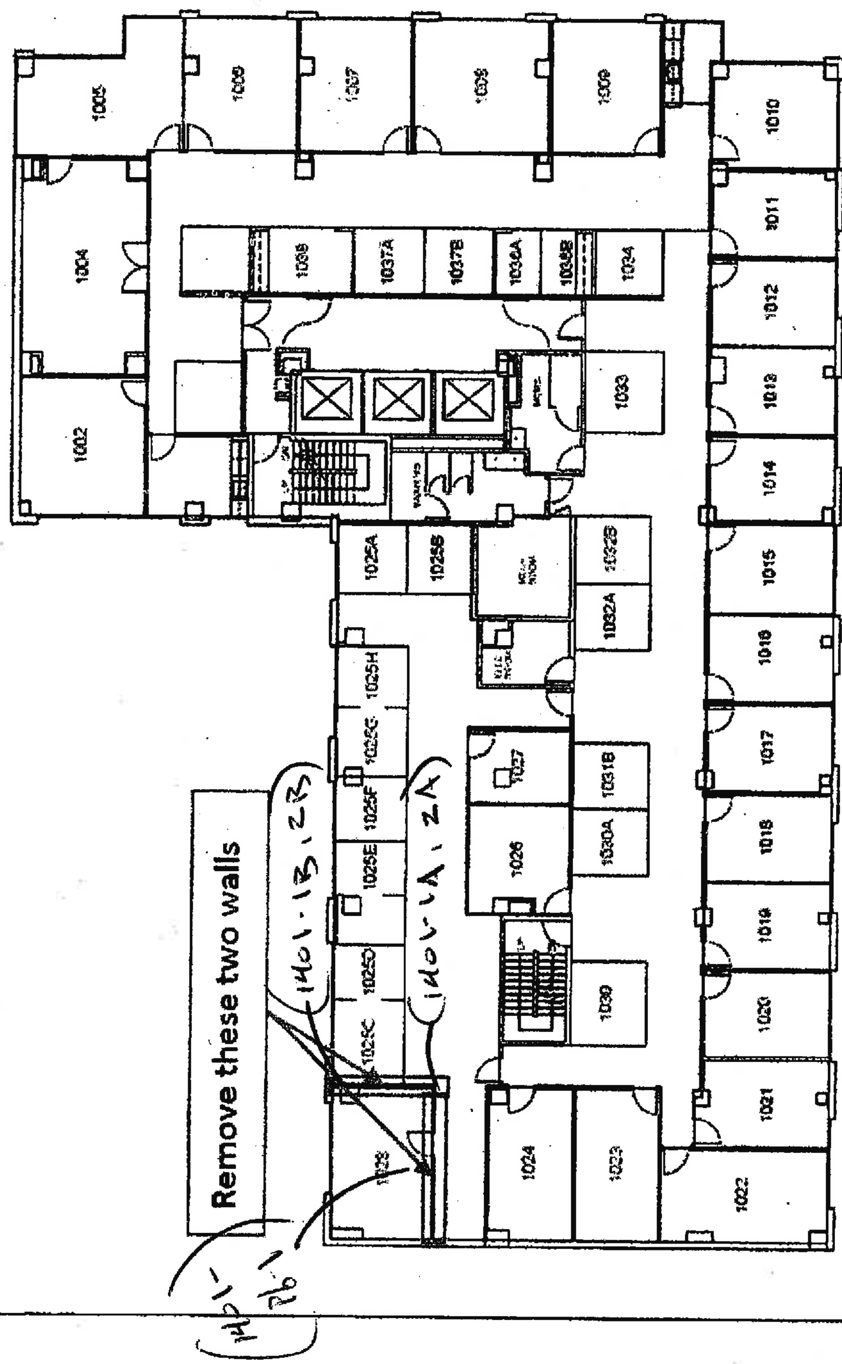
Received By: _____ **Signature:** _____ **Date/Time:** _____

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

12-22-16 P02:26 IN

R1167F47
12/22/16

Bldg #-Drawing Name-Floor:	04430-Lakeside-10th Flr		USF:	9,471
Building Name:	Lakeside Plaza		Print Date:	12/20/2007
Street Address:	1401 Lakeside Drive		City:	Oakland



MICRO ANALYTICAL LABORATORIES, INC.

LEAD IN PAINT - FLAME AAS (SW846)

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

PROJECT:
JOB NO. R1177890
1401 LAKESIDE DRIVE
8TH FLOOR

Micro Log In 235365
Total Samples 1
Date Sampled 08/02/2017
Date Received 08/02/2017
Date Analyzed 08/03/2017

Sample ID	Lead Concentration Weight Percent	mg/kg (ppm)	RDL
Client: 1401-PB-01 Lab: 235365-01 WHITE - DRYWALL - WALL - 825	< 0.0072 %	< 72	0.00719 % 72 mg/kg

Technical Supervisor: _____ 8/3/2017
Tess Tagorda, Chemistry Supervisor Date Reported

Analyst: AY

AIHA-LAP LLC ELLAP Accredited Laboratory, ID #101768. SOP M23-Paint. Samples are analyzed by Flame Atomic Absorption Spectrometry (AAS). U.S. EPA SW-846 Method 7420 is used for the instrumental analysis. Nitric acid and hydrogen peroxide digestion procedures are based on ASTM E-1645. Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. Note: due to software limitations, the number of reported significant figures does not necessarily reflect the uncertainty of the analysis. If the amount of sample available for analysis is lower than advisable for this method, detection limits and uncertainty will be higher. This report must not be reproduced except in full, without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed. Unit explanations: mg = milligrams; kg = kilograms; ppm = parts per million. N/A = Not Applicable. RDL = Report Detection Limit.

235365

Terracon

LEAD PAINT
SAMPLE DATA SHEET

* Lead Analysis
__ Flame AA (EPA 7420)
__ TTLC

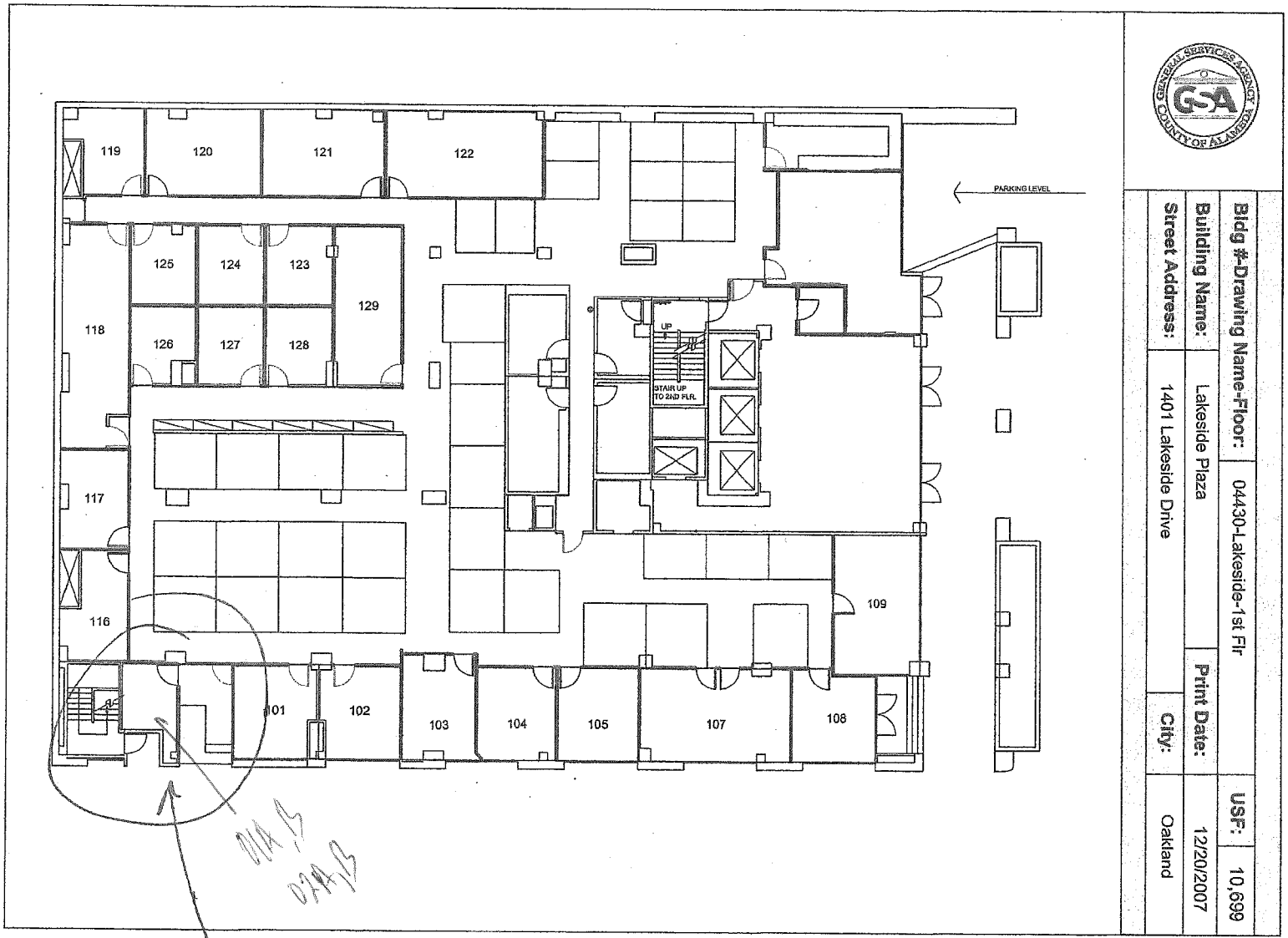
PAGE 1 OF 1

X PM – S. Steiner spsteiner@terracon.com
__PM – K. Schroeter kmschroeter@terracon.com
__PM – K. Pilgrim kmpilgrim@terracon.com
__PM- M. Benefield msbenefield@terracon.com
__PM – T. Kattchee takattchee@terracon.com
__PM – W. Frieszell wmfrieszell@terracon.com

Project Name/Address/Building No. : 1401 LAKESIDE DR, 8th FLOOR
Project #: R1177890 Sampled By: [signature] Sampling Date 8/02/17
Sample(s) Sent To: ___ QuanTem ___MAL_____ Other:________ TAT: ___Rush X 24Hrs ___48 Hrs ___3-5 Days

	Sample ID	Paint Description and Sample Location	Condition (I/F/P)
1	1401-Pb-01	Paint Color: WHITE Substrate: DW Component: WALL Sample Location: Bldg. #____ Unit #____ Room 825	
		Paint Color:____ Substrate:____ Component:____ Sample Location: Bldg. #____ Unit #____ Room ____	
		Paint Color:____ Substrate:____ Component:____ Sample Location: Bldg. #____ Unit #____ Room ____	
		Paint Color:____ Substrate:____ Component:____ Sample Location: Bldg. #____ Unit #____ Room ____	
		Paint Color:____ Substrate:____ Component:____ Sample Location: Bldg. #____ Unit #____ Room ____	
		Paint Color:____ Substrate:____ Component:____ Sample Location: Bldg. #____ Unit #____ Room ____	
		Paint Color:____ Substrate:____ Component:____ Sample Location: Bldg. #____ Unit #____ Room ____	
		Paint Color:____ Substrate:____ Component:____ Sample Location: Bldg. #____ Unit #____ Room ____	
		Paint Color:____ Substrate:____ Component:____ Sample Location: Bldg. #____ Unit #____ Room ____	
		Paint Color:____ Substrate:____ Component:____ Sample Location: Bldg. #____ Unit #____ Room ____	

Relinquished By: [signature] Signature: [signature] Date/Time: 8/2/17
Received By: ________ Signature: ________ Date/Time: 8/2/17 13:57
Relinquished By: ________ Signature: ________ Date/Time: ________
Received By: ________ Signature: ________ Date/Time: ________



Server room needs tile
Checked if it contains asbestos.

Bldg #-Drawing Name-Floor:	04430-Lakeside-1st Flr
Building Name:	Lakeside Plaza
Street Address:	1401 Lakeside Drive
City:	Oakland
Print Date:	12/20/2007
USF:	10,699

MICRO ANALYTICAL LABORATORIES, INC.

LEAD IN PAINT - FLAME AAS (SW846)

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

PROJECT:
JOB NO. R1187902
1401 LAKESIDE DRIVE
12TH FLOOR OFFICE
DOC ACSO

Micro Log In 248211
Total Samples 1
Date Sampled 08/20/2018
Date Received 08/22/2018
Date Analyzed 08/22/2018

Sample ID	Lead Concentration Weight Percent	mg/kg (ppm)	RDL
Client: PB3 Lab: 248211-01 WHITE - DRYWALL - WALL 12TH FLOOR - WEST WALL OF OFFICE ACSO	< 0.0081 %	< 81	0.0081 % 81 mg/kg

Technical Supervisor: Brandon Walker for Tess Tagorda, Chemistry Supervisor 8/22/2018 Date Reported

Analyst: BH

AIHA-LAP LLC ELLAP Accredited Laboratory, ID #101768. Samples are analyzed by Flame Atomic Absorption Spectrometry (AAS) using SOP 23-Paint. This SOP is based on U.S. EPA SW-846 Method 7420 for instrumental analysis, and on USEPA SW846, 3rd edition for nitric acid and hydrogen peroxide digestion. Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. **Note: due to software limitations, the number of reported significant figures does not necessarily reflect the uncertainty of the analysis.** If the amount of sample available for analysis is lower than advisable for this method, detection limits and uncertainty will be higher. This report must not be reproduced except in full, without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed. Unit explanations: mg = milligrams; kg = kilograms; ppm = parts per million. N/A = Not Applicable. RDL = Report Detection Limit.

RUSH! 248211

Terracon

☒ PM – S. Steiner spsteiner@terracon.com	☐ PM – K. Schroeter kmschroeter@terracon.com	☐ PM – K. Pilgrim kmpilgrim@terracon.com
☐ PM – M. Bryant mvbryant@terracon.com	☐ PM – T. Kattchee takattchee@terracon.com	☐ PM- M. Benefield msbenefield@terracon.com
☐ PM D. Ufferfilge dufferfilge@terracon.com	☐ PM – M. Bishop mrbishop@terracon.com	☐ PM – W. Frieszell wmfrieszell@terracon.com

LEAD PAINT
SAMPLE DATA SHEET

* Lead Analysis
__ Flame AA (EPA 7420)
__ TTLC

PAGE 1 OF 1

Project Name/ Address/ Building No. 1401 Lakeside Dr. - 12TH FLOOR OFFICE DOC ACSO

Project# R1187902 **Sampled By:** M. Reed **Sampling Date:** 8-20-18

Sample(s) sent to: ☑ MAL ☐ EMSL ☐ Aerobiology ☐ Quantem **Other** _____

TAT ☑ Rush ☐ 24HRS ☐ 48HRS ☐ 3-5 Day

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

***ADDITIONAL REPORT RECIPIENT(S): _____ ***

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
PB3	Paint Color: WHITE Substrate: DRYWALL Component: WALL Sample Location: Bldg # _____ Unit # _____ Room _____ 12TH FLOOR - WEST WALL OF OFFICE ACSO	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	

Relinquished By:	M. Reed S. Silapasay	**Signature:**	M. Reed S. S	**Date/Time:** 8-22-18
Received By:		**Signature:**		**Date/ Time:** 8/22/18 1539
Received By:		**Signature:**		**Date/Time:**

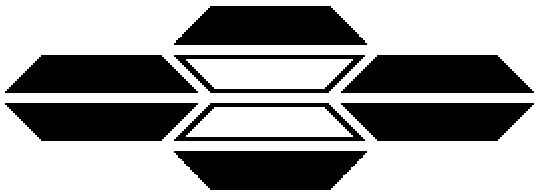
1466 66th Street Emeryville CA 94608 Tel: (510) 547-7771 Fax: (510) 547-1983

R1187902 - 8-20-18

Scope of work
- Remove door, fill in opening
- Install dividing wall w/new door (both to clear Fire sprinklers)
- Install San. RA grilles in ceiling, one in each new room, and one in room #1219
- Paint exit both new rooms
- Carpet to remain
- Replace broken and as needed ceiling tiles
- Install outlets in new wall

N

Bldg #-Drawing Name-Floor:	04430-Lakeside-12th Flr	USF:	10,120
Building Name:	Lakeside Plaza	Print Date:	12/20/2007
Street Address:	1401 Lakeside Drive	City:	Oakland



ASBESTOS TEM LABORATORIES, INC.

ATEM SOP-AA-01
(EPA 3050B/EPA 7420)

Lead Paint Analysis Report

Laboratory Job # 359818

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

Aug/23/2018

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

RE: LABORATORY JOB # 359818
Atomic Absorption Spectroscopy analytical results for 1 paint sample(s).
Job Site: 1401 Lakeside Dr.
Job No.: R1187902

Enclosed please find results for the atomic absorption spectroscopy (AA) metals analysis of one or more paint samples. Sample preparation and analysis procedures were performed according to ATEM SOP-AA-01 (EPA 3050B / EPA 7420).

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

A portion of each sample is weighed out such that an aliquot of ~0.2 grams is obtained. The weighed sample material is then placed into a digestion vessel, transferred to a fume hood, heated at ~95 Deg. C, refluxed with nitric acid to solubilize the contained metals, and treated with hydrogen peroxide to oxidize any organic binder present in the sample material. High purity water is added to make a 50 ml volume for each sample.

AA analysis is performed on a microprocessor controlled Perkin Elmer AAnalyst 300 atomic absorption spectrophotometer, operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the calibration range. QC analyses are prepared and performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client. Note: Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Sincerely Yours,

ASBESTOS TEM LABORATORIES, INC.

--- Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits. These results relate only to the sample(s) tested and must not be reproduced, except in full, with the approval of the laboratory. ---

ATOMIC ABSORPTION SPECTROSCOPY
LEAD PAINT ANALYSIS REPORT
ATEM SOP-AA-01 (EPA 3050B / EPA 7000B)

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

Samples Submitted: 1
Samples Analyzed: 1
Job Site / No.
1401 Lakeside Dr.
R1187902

Report No.: **359818**
Date Submitted: Aug-23-18
Date Reported: Aug-23-18

SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION
Pb4 Lab ID # 1434-03785-001	Pb	< 42 mg/kg < 0.004 %	42 mg/kg 0.004 %	White - Drywall - Wall - 12th Floor Acso Doc Office Sampling Date: Aug-23-18 Analysis Date: Aug-23-18 Analyzed Weight (g): 0.2402
Lab ID #				Sampling Date Analysis Date Analyzed Weight (g)
Lab ID #				Sampling Date Analysis Date Analyzed Weight (g)
Lab ID #				Sampling Date Analysis Date Analyzed Weight (g)
Lab ID #				Sampling Date Analysis Date Analyzed Weight (g)
Lab ID #				Sampling Date Analysis Date Analyzed Weight (g)
Lab ID #				Sampling Date Analysis Date Analyzed Weight (g)
Lab ID #				Sampling Date Analysis Date Analyzed Weight (g)
Lab ID #				Sampling Date Analysis Date Analyzed Weight (g)
Lab ID #				Sampling Date Analysis Date Analyzed Weight (g)

Analytical results posted above relate only to the material(s) tested.
The sample has not been blank corrected.

µg - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer [signature] **Jo Ann Huerto**

Analyst [signature] **Jie Zhang**

359818

Terracon

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

☐ denise.wallen@terracon.com ☐ eric.dyer@terracon.com

LEAD PAINT SAMPLE DATA SHEET

* Lead Analysis
_____ Flame AA (EPA 7420) _____ TTLC

PAGE 1 OF 1

☒ PM – S. Steiner sosteiner@terracon.com	☐ PM – K. Schroeter kmschroeter@terracon.com	☐ PM – W. Frieszell wmfrieszell@terracon.com	☐ PM – T. Kattchee takattchee@terracon.com	☐ PM – K. Pilgrim kmpilgrim@terracon.com	☐ PM- M. Benefield msbenefield@terracon.com

Project Name/ Address/ Building No. 1401 LAKESIDE DR

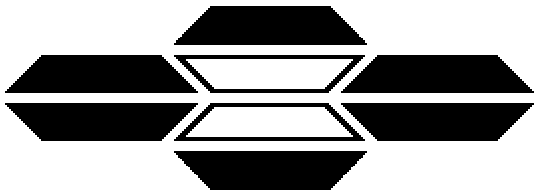
Project# R1187902 **Sampled By:** M. REED **Sampling Date:** 8-23-18

Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☐ Quantem **Other** _____

TAT ☑ Rush ☐ 24HRS ☐ 48HRS ☐ 3-5 Day
LOHR

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
P64	Paint Color: WHITE Substrate: DRYWALL Component: WALL Sample Location: Bldg # _____ Unit # _____ Room _____ 12TH FLOOR ACSO DOC OFFICE	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	

Relinquished By:	M. REED MB	**Signature:**	M. REED	**Date/Time:**	8-23-18 AUG23'18 11:44AM
Received By:		**Signature:**		**Date/ Time:**	
Received By:		**Signature:**		**Date/Time:**	



ASBESTOS TEM LABORATORIES, INC.

ATEM SOP-AA-01
(EPA 3050B/EPA 7420)

Lead Paint Analysis Report

Laboratory Job # 360735

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

Oct/05/2018

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

RE: LABORATORY JOB # 360735
Atomic Absorption Spectroscopy analytical results for 2 paint sample(s).
Job Site: 1401 Lakeside Dr, Oakland, CA
Job No.: R1187B79

Enclosed please find results for the atomic absorption spectroscopy (AA) metals analysis of one or more paint samples. Sample preparation and analysis procedures were performed according to ATEM SOP-AA-01 (EPA 3050B / EPA 7420).

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

A portion of each sample is weighed out such that an aliquot of ~0.2 grams is obtained. The weighed sample material is then placed into a digestion vessel, transferred to a fume hood, heated at ~95 Deg. C, refluxed with nitric acid to solubilize the contained metals, and treated with hydrogen peroxide to oxidize any organic binder present in the sample material. High purity water is added to make a 50 ml volume for each sample.

AA analysis is performed on a microprocessor controlled Perkin Elmer AAnalyst 300 atomic absorption spectrophotometer, operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the calibration range. QC analyses are prepared and performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client. Note: Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Sincerely Yours,

ASBESTOS TEM LABORATORIES, INC.

--- Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits. These results relate only to the sample(s) tested and must not be reproduced, except in full, with the approval of the laboratory. ---

ATOMIC ABSORPTION SPECTROSCOPY
LEAD PAINT ANALYSIS REPORT
ATEM SOP-AA-01 (EPA 3050B / EPA 7000B)

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

Samples Submitted: 2
Samples Analyzed: 2
Job Site / No.
1401 Lakeside Dr, Oakland, CA
R1187B79

Report No.: **360735**
Date Submitted: Oct-03-18
Date Reported: Oct-05-18

SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION		
Pb-01 Lab ID # 1434-03915-001	Pb	**< 45 mg/kg** < 0.005 %	**45 mg/kg** 0.005 %	White Drywall, Room 123		
				Sampling Date	Analysis Date	Analyzed Weight (g)
					Oct-05-18	0.2243
Pb-02 Lab ID # 1434-03915-002	Pb	**< 45 mg/kg** < 0.005 %	**45 mg/kg** 0.005 %	White Drywall, Room 228		
				Sampling Date	Analysis Date	Analyzed Weight (g)
					Oct-05-18	0.2219
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)

Analytical results posted above relate only to the material(s) tested.
The sample has not been blank corrected.

µg - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer ________ **Jo Ann Huerto**

Analyst ________ **Jie Zhang**

#360735

Terracon

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

☐ denise.wallen@terracon.com ☐ eric.dyer@terracon.com

LEAD PAINT SAMPLE DATA SHEET

* Lead Analysis
☑ Flame AA (EPA 7420) ☐ TTLC

PAGE 1 OF 2

☐ PM – S. Steiner sjsteiner@terracon.com	☐ PM – K. Schroeter kmschroeter@terracon.com	☐ PM – W. Frieszell wmfrieszell@terracon.com	☐ PM – T. Kattchee takattchee@terracon.com	☐ PM – K. Pilgrim kmpilgrim@terracon.com	☐ PM- M. Benefield msbenefield@terracon.com

Project Name/ Address/ Building No. 1401 Lakeside dr, Oakland CA

Project# R1187B79 **Sampled By:** Steve R. **Sampling Date:** 10/3/18

Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☐ Quantem **Other** TEM

TAT ☐ Rush ☐ 24HRS ☑ 48HRS ☐ 3-5 Day

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
Pb-01	Paint Color: white Substrate: drywall Component: wall Sample Location: Bldg # ____ Unit # ____ Room 123	I
Pb-02	Paint Color: white Substrate: drywall Component: wall Sample Location: Bldg # ____ Unit # ____ Room 228	I
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg # ____ Unit # ____ Room ____	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg # ____ Unit # ____ Room ____	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg # ____ Unit # ____ Room ____	

Relinquished By:	Steve Rogers	**Signature:**		**Date/Time:**	10/3/18
Received By:		**Signature:**		**Date/ Time:**	OCT '18 4:11PM
Received By:		**Signature:**		**Date/Time:**	

= RECARPET AREA

= REMOVE WALL

= CORE FLOOR FOR OUTLET

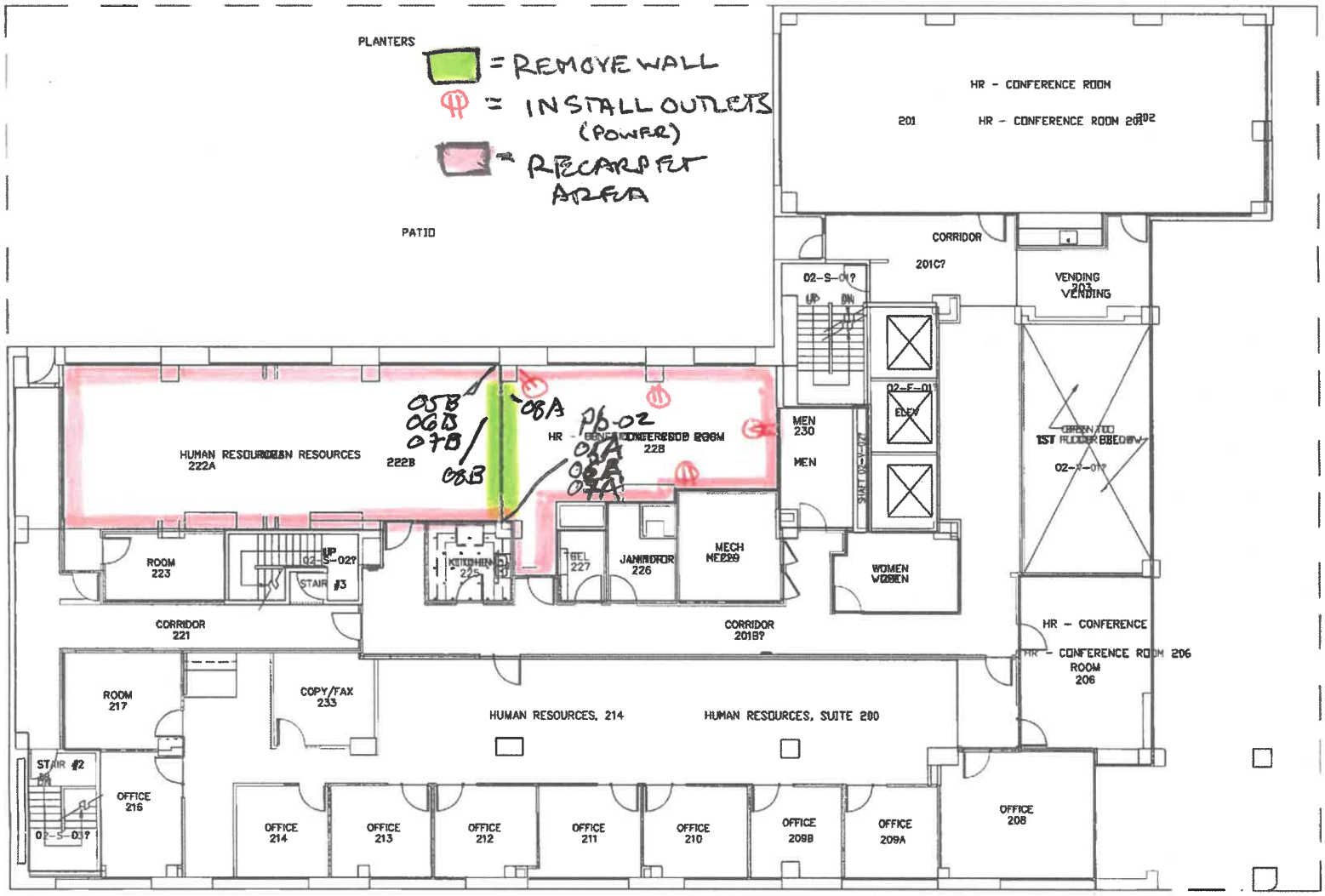
= NEW POWER OUTLET

IDSO# 580578

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

COORDINATE WITH JASMIN ALVAREZ 570.208.9594 IN ADVANCE TO BOOK ROOMS

IDSO# 580578



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

PLAN NORTH

EMSL Analytical, Inc
464 McCormick Street, San Leandro, CA 94577
Phone/Fax: (510) 895-3675 / (510) 895-3680
http://www.EMSL.com sanleandrolab@emsl.com

EMSL Order:	091823210
CustomerID:	32VEOK25
CustomerPO:	
ProjectID:	

Attn: **CHRIS BURNS**
Vista Environmental Consulting, Inc.
2984 Teagarden St
San Leandro, CA 94577

Phone:	(510) 346-8860
Fax:	
Received:	10/24/18 9:00 AM
Collected:	10/23/2018

Project: **1401 LAKESIDE OAKLAND, CA ROOM #730 / 180062021**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Lead Concentration*
1401-PB01	*091823210-0001*	10/23/2018	10/24/2018	<0.010 % wt
	Site: ROOM #730 WHITE PAINT ON DRYWALL			

Julian Neagu, Lead Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA A2LA Accredited Environmental Testing Cert #2845.09

Initial report from 10/24/2018 18:54:32

OrderID: 091823210

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 091823210

EMSL Analytic, Inc.
464 McCormick Street
San Leandro, CA.
PHONE: 510 895-3675
FAX: 510 895-3680

Company: Vista Environmental Consulting	**EMSL-Bill to:** ☐ Different ☒ Same If Bill to Is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 2984 Teagarden Street	
City: San Leandro **State/Province:** CA.	**Zip/Postal Code:** 94577 **Country:** US
Report To (Name): Chris Burns	**Telephone #:** 510 346-8860
Email Address: chrisburns@vista-env.com; molli@vista-env.com	**Fax #:** 888 296-0271 **Purchase Order:**
Project Name/Number: 1401 Lakeside, Oakland, CA. /180062021	**Please Provide Results:** ☐ FAX ☒ E-mail ☐ Mail
U.S. State Samples Taken: ROOM #730	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☒ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☒ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	Flame Atomic Absorption	0.01%	☒
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *If no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: Chris Troyer **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
1401-P001	ROOM #730 WHITE PAINT ON DRYWALL		10/23/18 14:10

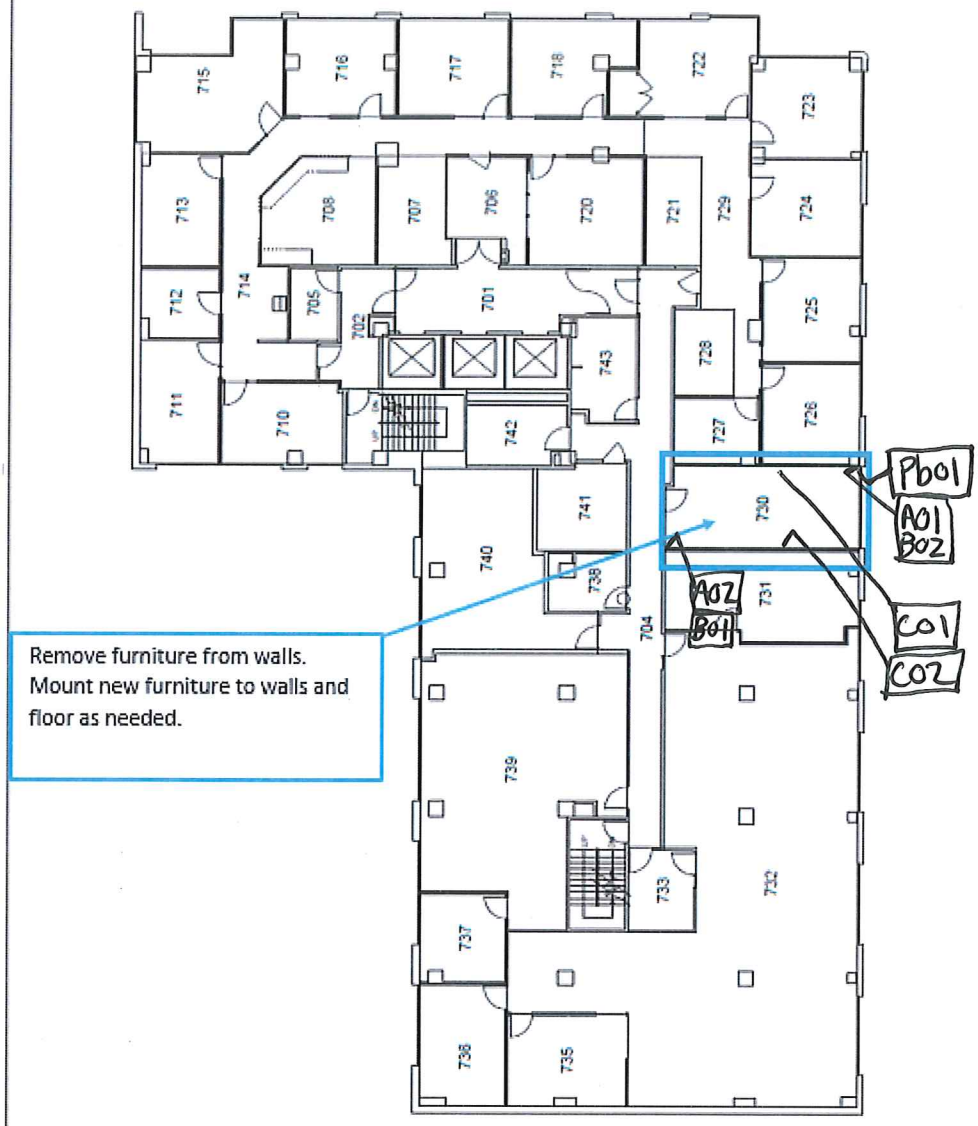
Client Sample #'s 1 - **Total # of Samples:** 1

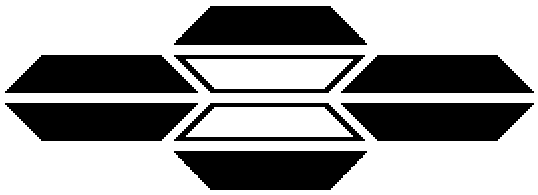
Relinquished (Client):		**Date:**	10/23/18	**Time:**	14:15
Received (Lab):		**Date:**	10/24/18	**Time:**	8:00 AM

Comments: pB

FLOOR PLAN OF LOCATION TO BE TESTED/ABATED

Bldg #-Drawing Name-Floor:	04430-Lakeside-7th Flr	USF:	9,882
Building Name:	Lakeside Plaza	Print Date:	12/20/2007
Street Address:	1401 Lakeside Drive	City:	Oakland





ASBESTOS TEM LABORATORIES, INC.

ATEM SOP-AA-01
(EPA 3050B/EPA 7420)

Lead Paint Analysis Report

Laboratory Job # 363479

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

Apr/17/2019

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

RE: LABORATORY JOB # 363479
Atomic Absorption Spectroscopy analytical results for 1 paint sample(s).
Job Site: 1401 Lakeside, Oakland, CA
Job No.: R1197409

Enclosed please find results for the atomic absorption spectroscopy (AA) metals analysis of one or more paint samples. Sample preparation and analysis procedures were performed according to ATEM SOP-AA-01 (EPA 3050B / EPA 7420).

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

A portion of each sample is weighed out such that an aliquot of ~0.2 grams is obtained. The weighed sample material is then placed into a digestion vessel, transferred to a fume hood, heated at ~95 Deg. C, refluxed with nitric acid to solubilize the contained metals, and treated with hydrogen peroxide to oxidize any organic binder present in the sample material. High purity water is added to make a 50 ml volume for each sample.

AA analysis is performed on a microprocessor controlled Perkin Elmer AAnalyst 300 atomic absorption spectrophotometer, operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the calibration range. QC analyses are prepared and performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client. Note: Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Sincerely Yours,

ASBESTOS TEM LABORATORIES, INC.

--- Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits. These results relate only to the sample(s) tested and must not be reproduced, except in full, with the approval of the laboratory. ---

ATOMIC ABSORPTION SPECTROSCOPY
LEAD PAINT ANALYSIS REPORT
ATEM SOP-AA-01 (EPA 3050B / EPA 7000B)

Contact: Steff Steiner	Samples Submitted: 1	Report No.:	**363479**
Address: Terracon Consultants, Inc.	Samples Analyzed: 1	Date Submitted:	Apr-12-19
1466 66th Street	Job Site / No.	Date Reported:	Apr-17-19
Emeryville, CA 94608	1401 Lakeside, Oakland, CA		
	R1197409		

SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION
Pb1 Lab ID # 1434-04258-001	Pb	< **44 mg/kg** < 0.004 %	**44 mg/kg** 0.004 %	White - Drywall - Wall - Art Comm. Room #629 Sampling Date: Apr-12-19 / Analysis Date: Apr-17-19 / Analyzed Weight (g): 0.2249
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)
Lab ID #				Sampling Date / Analysis Date / Analyzed Weight (g)

Analytical results posted above relate only to the material(s) tested.
The sample has not been blank corrected.

鎔 - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer Jo Ann Huerto
Jo Ann Huerto

Analyst Jie Zhang
Jie Zhang

363479

Terracon

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

☐ denise.wallen@terracon.com Engineering Assistant	☐ eric.dyer@terracon.com Engineering Assistant
☑ PM – S. Steiner spsteiner@terracon.com	☐ PM – K. Schroeter kmschroeter@terracon.com
☐ PM – K. Pilgrim kmpilgrim@terracon.com	☐ PM- M. Benefield msbenefield@terracon.com
☐ PM – W. Frieszell wmfrieszell@terracon.com	☐ PM – T. Kattchee takattchee@terracon.com
☐ PM – D. Block david.block@terracon.com	

LEAD PAINT SAMPLE DATA SHEET

* Lead Analysis
✓ Flame AA (EPA 7420) ____ TTLC

PAGE 1 OF 1

Project Name/ Address/ Building No. 1401 LAKESIDE, OAKLAND, CA

Project# R1197409 **Sampled By:** M. REED **Sampling Date:** 4-12-19

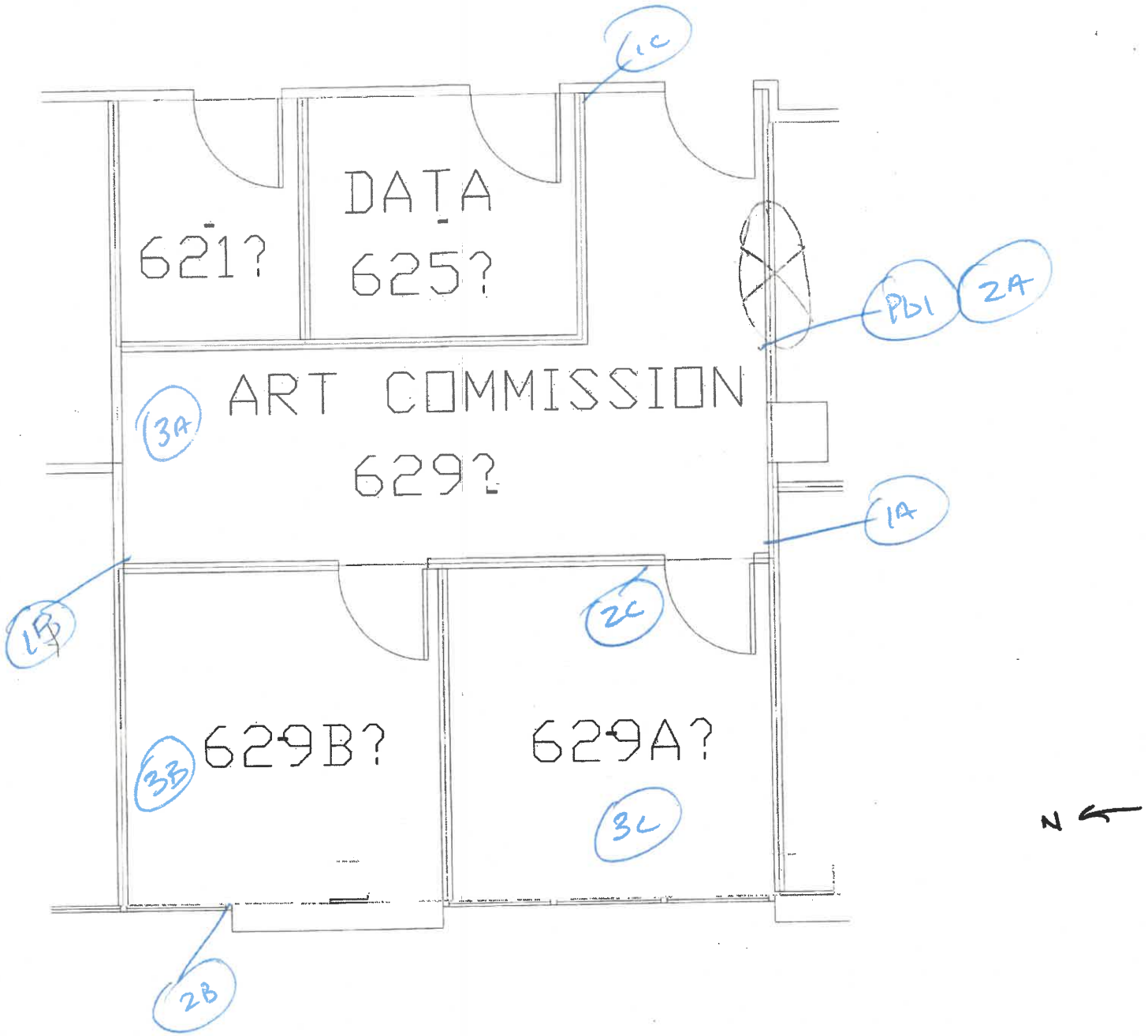
Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☐ Quantem **Other** ASBESTOS TEM

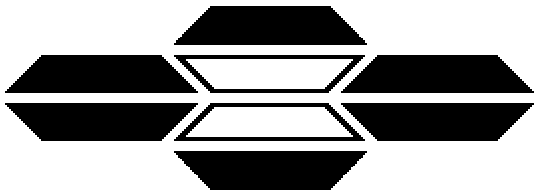
TAT ☐ Rush ☐ 24HRS ☑ 3DAY

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
Pb1	Paint Color: WHITE Substrate: DRYWALL Component: WALL Sample Location: Bldg # ____ Unit # ____ Room ____ ART Comm. Room #629	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg # ____ Unit # ____ Room ____	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg # ____ Unit # ____ Room ____	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg # ____ Unit # ____ Room ____	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg # ____ Unit # ____ Room ____	

Relinquished By:	M. REED MD	**Signature:**	M. Reed MD	**Date/Time:**	4-12-19 4-12-19 1638
Received By:		**Signature:**		**Date/ Time:**	
Received By:		**Signature:**		**Date/Time:**	

1401 LAKESIDE





ASBESTOS TEM LABORATORIES, INC.

ATEM SOP-AA-01
(EPA 3050B/EPA 7420)

Lead Paint Analysis Report

Laboratory Job # 363646

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

Apr/26/2019

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

RE: LABORATORY JOB # 363646
Atomic Absorption Spectroscopy analytical results for 1 paint sample(s).
Job Site: Alameda County - 1401 Lakeside Dr. Rm 623
Job No.: R1197460

Enclosed please find results for the atomic absorption spectroscopy (AA) metals analysis of one or more paint samples. Sample preparation and analysis procedures were performed according to ATEM SOP-AA-01 (EPA 3050B / EPA 7420).

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

A portion of each sample is weighed out such that an aliquot of ~0.2 grams is obtained. The weighed sample material is then placed into a digestion vessel, transferred to a fume hood, heated at ~95 Deg. C, refluxed with nitric acid to solubilize the contained metals, and treated with hydrogen peroxide to oxidize any organic binder present in the sample material. High purity water is added to make a 50 ml volume for each sample.

AA analysis is performed on a microprocessor controlled Perkin Elmer AAnalyst 300 atomic absorption spectrophotometer, operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the calibration range. QC analyses are prepared and performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client. Note: Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Sincerely Yours,

ASBESTOS TEM LABORATORIES, INC.

--- Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits. These results relate only to the sample(s) tested and must not be reproduced, except in full, with the approval of the laboratory. ---

ATOMIC ABSORPTION SPECTROSCOPY
LEAD PAINT ANALYSIS REPORT
ATEM SOP-AA-01 (EPA 3050B / EPA 7000B)

Contact: Steff Steiner	Samples Submitted: 1	Report No.:	**363646**
Address: Terracon Consultants, Inc.	Samples Analyzed: 1	Date Submitted:	Apr-24-19
1466 66th Street	Job Site / No.	Date Reported:	Apr-26-19
Emeryville, CA 94608	Alameda County - 1401 Lakeside Dr. Rm R1197460		

SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION
1401-Pb-01 Lab ID # 1434-04282-001	Pb	**< 48 mg/kg** < 0.005 %	**48 mg/kg** 0.005 %	White - Drywall - Wall -Rm 623 - North Wall @ East Side Sampling Date: Apr-24-19 · Analysis Date: Apr-26-19 · Analyzed Weight (g): 0.2073
Lab ID #				Sampling Date · Analysis Date · Analyzed Weight (g)
Lab ID #				Sampling Date · Analysis Date · Analyzed Weight (g)
Lab ID #				Sampling Date · Analysis Date · Analyzed Weight (g)
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Lab ID #				Sampling Date · Analysis Date · Analyzed Weight (g)
Lab ID #				Sampling Date · Analysis Date · Analyzed Weight (g)
Lab ID #				Sampling Date · Analysis Date · Analyzed Weight (g)

Analytical results posted above relate only to the material(s) tested.
The sample has not been blank corrected.

鎔 - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer ____________ **Jo Ann Huerto**

Analyst ____________ **Jie Zhang**

363646

Terracon

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

☐ denise.wallen@terracon.com Engineering Assistant	☐ eric.dyer@terracon.com Engineering Assistant
☒ PM – S. Steiner ssteiner@terracon.com	☐ PM – K. Schroeter kmschroeter@terracon.com

☐ PM – K. Pilgrim kmpilgrim@terracon.com	☐ PM- M. Benefield msbenefield@terracon.com	☐ PM – W. Frieszell wmfrieszell@terracon.com	☐ PM – T. Kattchee tekattchee@terracon.com	☐ PM – D. Block david.block@terracon.com

LEAD PAINT SAMPLE DATA SHEET

* Lead Analysis
☒ Flame AA (EPA 7420) ☐ TTLC

PAGE 1 OF 1

Project Name/ Address/ Building No. Alameda County - 1401 Lakeside Dr. Rm 623

Project# R1197460 **Sampled By:** Steiner **Sampling Date:** 4/24/19

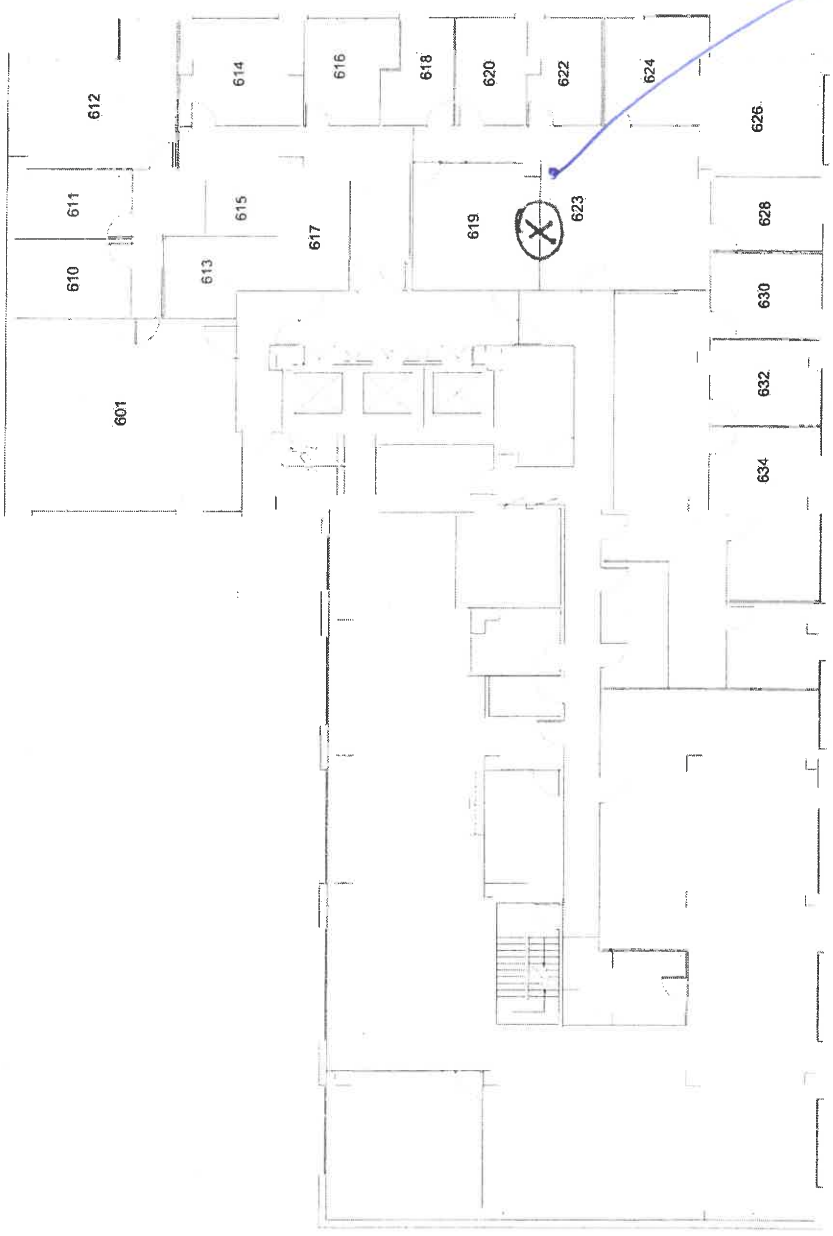
Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☐ Quantem **Other** AIEM

TAT ☐ Rush ☐ 24HRS ☒ 48HRS ☐ 3-5 Day

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
1401-PB-01	Paint Color: White Substrate: Drywall Component: Wall Sample Location: Bldg # ____ Unit # ____ Room ____ Rm 623 - North Wall @ East Side	I
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg # ____ Unit # ____ Room ____	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg # ____ Unit # ____ Room ____	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg # ____ Unit # ____ Room ____	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg # ____ Unit # ____ Room ____	

Relinquished By:	Steff Steiner MB	**Signature:**	Steff A	**Date/Time:**	4/24/19 APR24 '19 3:49PM
Received By:		**Signature:**		**Date/ Time:**	
Received By:		**Signature:**		**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:**	Oakland



EMSL Analytical, Inc
464 McCormick Street, San Leandro, CA 94577
Phone/Fax: (510) 895-3675 / (510) 895-3680
http://www.EMSL.com sanleandrolab@emsl.com

EMSL Order:	092112996
CustomerID:	32VEOK25
CustomerPO:	
ProjectID:	

Attn: **CHRIS BURNS**
Vista Environmental Consulting, Inc.
2984 Teagarden St
San Leandro, CA 94577

Phone:	(510) 346-8860
Fax:	
Received:	08/23/21 7:00 PM
Collected:	8/20/2021

Project: **1401 LAKESIDE, OAK 210062011**

Test Report: Total Threshold Limit Concentration (7000B)

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Weight*	*Lead* ***Concentration***
1401-PB-01	*092112996-0003*	8/20/2021	8/23/2021	0.5060 g	<40 ppm
	Site: RM 732 WHITE WALL				
1401-PB-02	*092112996-0004*	8/20/2021	8/23/2021	0.5097 g	<40 ppm
	Site: RM 732 BLUE WALL				

Julian Neagu, Lead Laboratory Manager
or other approved signatory

Initial report from 08/23/2021 17:16:49

OrderID: 092112996

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 092112996

EMSL Analytic, Inc.
464 McCormick Street
San Leandro, CA.
PHONE: 510 895-3675
FAX: 510 895-3680

Company: Vista Environmental Consulting		**EMSL-Bill to:** ☐ Different ☐ Same If Bill to is Different note instructions in Comments**	
Street: 2984 Teagarden Street		*Third Party Billing requires written authorization from third party*	
City: San Leandro	**State/Province:** CA.	**Zip/Postal Code:** 94577	**Country:** US
Report To (Name): Chris Burns		510 346-8860	
Email Address: chrisburns@vista-env.com; labreports@vista-env.com; javier.rocha@vista-env.com		**Fax #:** 888 296-0271	**Purchase Order:**
Project Name/Number: 1401 Lakeside, Oak/210062011		**Please Provide Results:** ☐ FAX ☐ E-mail ☐ Mail	
U.S. State Samples Taken: CA		**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☑ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ■ ppm	SW846-7000B	Flame Atomic Absorption	40 ppm	☒
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
Preserved with HNO_3 pH < 2 ☐	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: [signature] **Signature of Sampler:** [signature]

Sample #	Location	Volume/Area	Date/Time Sampled
1401 PB 01	RM 732	WHITE WALL	8/20/21 15:00
1401 PB 02	RM 732.	BLUE WALL	8/20/21 15:00

Client Sample #'s 1401 PB 01, 02 **Total # of Samples:** 2

Relinquished (Client): [signature] **Date:** 8/20/21 **Time:** 17:45

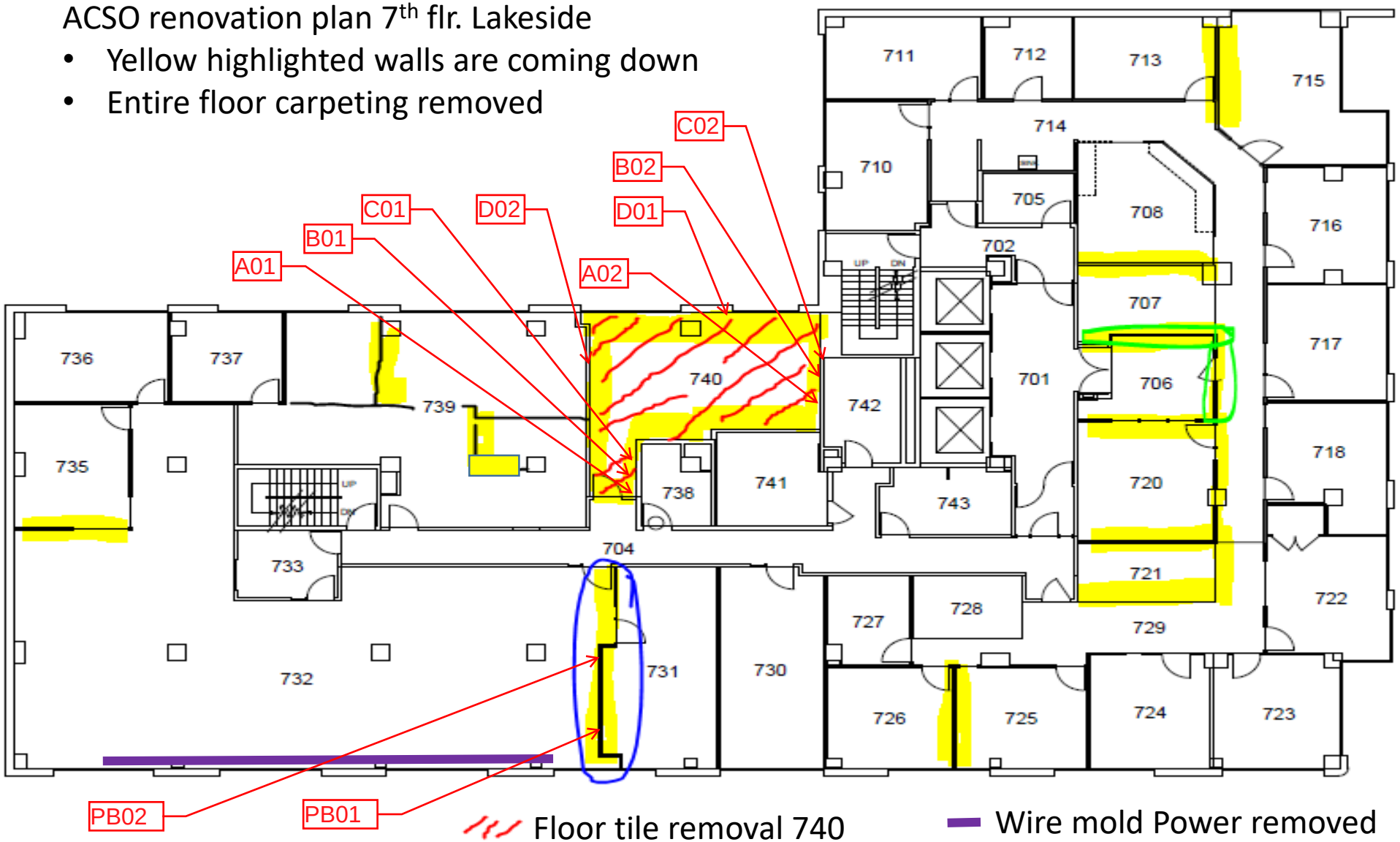
Received (Lab): FedEx INT **Date:** 8/20/21 **Time:** 4 pm

Comments:
TTLC Waste

Page 1 of 1 pages

ACSO renovation plan 7th flr. Lakeside

- Yellow highlighted walls are coming down
- Entire floor carpeting removed



Floor tile removal 740

Blue paint wall removed 731

Pony wall removed 706

Wire mold Power removed

Bldg #-Drawing Name-Floor:	04430-Lakeside-7th Flr
Building Name:	Lakeside Plaza
Street Address:	1401 Lakeside Drive
City:	Oakland
Print Date:	12/20/2007
USF:	9,882

BLDG. 1931

ENTERED 4/17/08

MICRO ANALYTICAL LABORATORIES. INC.

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

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 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: **1401-12-1B** Micro: 102386-02 Analyst: KM **TAN MASTIC FOR BLUE CARPET FRONT OFFICE**	**NONE DETECTED**	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** Micro: 102386-04 Analyst: KM **COVE BASE, 4", TAN MASTIC CLOSET AREA**	**MASTIC (TAN): NONE DETECTED** **BACKING: NONE DETECTED**	20 % CELLULOSE Matrix Type: SYNTHETIC MATERIAL
Client: **1401-12-2B** Micro: 102386-05 Analyst: KM **COVE BASE, 4", TAN MASTIC FRONT OFFICE**	**MASTIC (TAN): NONE DETECTED** **BACKING: NONE DETECTED**	20 % CELLULOSE Matrix Type: SYNTHETIC MATERIAL

Technical Supervisor: Sandra Hein 8/27/2007
for 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 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 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 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, and pertains only to the samples analyzed. ND = NO ASBESTOS DETECTED.

MICRO ANALYTICAL LABORATORIES, INC.

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

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 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: **1401-12-2C** 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 Type: MIXED CARBONATE - 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 Matrix Type: MIXED CARBONATE - 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 Type: MIXED CARBONATE - GYPSUM
Client: **1401-12-3A** Micro: 102386-10 Analyst: KM **COVE BASE MASTIC** **FILE ROOM FOR HR**	**MASTIC: NONE DETECTED** **BACKING: NONE DETECTED**	20 % CELLULOSE Matrix Type: SYNTHETIC MATERIAL

Technical Supervisor: Sadur Hein 8/27/2007
for Frank Raviola, Laboratory Director Date Reported

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MICRO ANALYTICAL LABORATORIES, INC.

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

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 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: **1401-12-3B** Micro: 102386-11 Analyst: KM **COVE BASE MASTIC** **SOUTHWEST CORNER OF ROOM**	**MASTIC: NONE DETECTED** **BACKING: NONE DETECTED**	20 % CELLULOSE Matrix Type: SYNTHETIC MATERIAL
Client: **1401-12-3C** Micro: 102386-12 Analyst: KM **COVE BASE MASTIC**	**MASTIC: NONE DETECTED** **BACKING: NONE DETECTED**	20 % CELLULOSE Matrix Type: SYNTHETIC MATERIAL
Client: **1401-12-5A** Micro: 102386-13 Analyst: KM **CARPET MASTIC** **FILE ROOM HR**	**NONE DETECTED**	Matrix Type: SYNTHETIC MATERIAL
Client: **1401-12-5B** Micro: 102386-14 Analyst: KM **CARPET MASTIC** **SOUTHWEST CORNER**	**NONE DETECTED**	Matrix Type: SYNTHETIC MATERIAL
Client: **1401-12-5C** Micro: 102386-15 Analyst: KM **CARPET MASTIC** **NORTH SIDE**	**MASTIC: NONE DETECTED** **LEVELING COMPOUND: NONE DETECTED**	Matrix Type: CARBONATE SYNTHETIC MATERIAL

Technical Supervisor: Sandra Hew 8/27/2007
for Frank Raviola, Laboratory Director Date Reported

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RGA ENVIRONMENTAL

X PM - S. Steiner Steff@rgaenv.com fax: 510 899.7051
__PM – K. Schroeter karin@rgaenv.com fax: 510.899.7063
__PM-K. Pilgrim ken@rgaenv.com fax: 510.899.7053
__PM – B. Weisbrod brent.weisbrod@rgaenv.com fax: 510.899.7062
__PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070
__PM – B. Gils bob@rgaenv.com fax: 510.899.7050

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

X Stop Analysis at First Positive

__ Analyze All Samples

__ Point Count Analysis (400-point)

PAGE __ OF __

102386

Project Name/Address: 1401 LAKESIDE DR 12TH FLOOR PO #

RGA Project #: OAL17358 Sampled By: KEVIN REEVE Sampling Date: 8/24/07

Sample(s) Sent To: X RGA ___ EMSL ___ Other: TAT: ___Rush X24Hrs ___3-5 Days

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

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

HM#	Material Description: TAN MASTIC FOR BLUE CARPET	
Sample ID	Sample Location & Material Location	Quantity:
1401-12-1A	CLOSET AREA	
1B	FRONT OFFICE	
1C	NE OFFICE	
HM#	Material Description: COVE BASE, 4", TAN MASTIC	
Sample ID	Sample Location & Material Location	Quantity:
1401-12-2A	CLOSET AREA	
2B	FRONT OFFICE	
2C	NE OFFICE	
HM#	Material Description: DRYWALL W/ TAPING COMPOUND	
Sample ID	Sample Location & Material Location	Quantity:
1401-12-3A	CLOSET AREA	
3B	NE OFFICE	
3C	FRONT OFFICE	
HM#	Material Description: COVE BASE MASTIC,	
Sample ID	Sample Location & Material Location	Quantity:
1401-12-4A	FILE RM FOR HR	
4B	SW CORNER of ROOM	
4C		
HM#	Material Description: CARPET MASTIC	
Sample ID	Sample Location & Material Location	Quantity:
5A	FILE RM HR	
5B	SW CORNER	
5C	N SIDE	

Bill directly to Alameda Attn: Jason G

Relinquished By: KEVIN REEVE Signature: Date/Time: 8/24/07

Received By: Kao Saelee Signature: Date/Time: 8/24/07 3:40pm

Relinquished By: Signature: Date/Time:

Received By: Signature: Date/Time:

04430 / 1931

MICRO ANALYTICAL LABORATORIES, INC.

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
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

SAMPLE IDENTIFICATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: 2172-7/15-201-1 Micro: 113886-01 Analyst: DA CERAMIC WALL TILE ADHESIVE & GROUT MENS 3 NEAR DOOR	ADHESIVE (YELLOW): NONE DETECTED GROUT (WHITE): NONE DETECTED	6 % CELLULOSE Matrix Type: ROCK FRAGMENTS SYNTHETIC MATERIAL
Client: 2172-7/15-202-1 Micro: 113886-02 Analyst: DA CERAMIC WALL TILE ADHESIVE & GROUT MENS 3 AT DOOR THRESHOLD	ADHESIVE: NONE DETECTED GROUT: NONE DETECTED	Matrix Type: CARBONATE ROCK FRAGMENTS
Client: 2172-7/15-201-2 Micro: 113886-03 Analyst: DA CERAMIC WALL TILE ADHESIVE & GROUT WOMEN 1 AT SOUTH WALL	ADHESIVE: NONE DETECTED GROUT: NONE DETECTED PAPER: NONE DETECTED	20 % CELLULOSE Matrix Type: CARBONATE ROCK FRAGMENTS
Client: 2172-7/15-202-2 Micro: 113886-04 Analyst: DA CERAMIC WALL TILE ADHESIVE & GROUT WOMEN 1 AT DOOR THRESHOLD	ADHESIVE: NONE DETECTED GROUT: NONE DETECTED TILE: NONE DETECTED	Matrix Type: CLAY ROCK FRAGMENTS
Client: 2172-7/15-201-3 Micro: 113886-05 Analyst: DA CERAMIC WALL TILE ADHESIVE & GROUT WOMEN 4 BY DOOR	ADHESIVE: NONE DETECTED GROUT: NONE DETECTED PAPER: NONE DETECTED	20 % CELLULOSE Matrix Type: CARBONATE 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 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 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 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; F = false positive or negative corrected, reanalysis 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. 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, and pertains only to the samples analyzed. ND = NO ASBESTOS DETECTED.

MICRO ANALYTICAL LABORATORIES, INC.

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
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

SAMPLE IDENTIFICATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: 2172-7/15-202-3 Micro: 113886-06 Analyst: DA CERAMIC WALL TILE ADHESIVE & GROUT WOMEN 4 AT DOOR THRESHOLD	ADHESIVE: NONE DETECTED GROUT: NONE DETECTED	2 % CELLULOSE Matrix Type: CARBONATE ROCK FRAGMENTS
Client: 2172-7/15-203-1 Micro: 113886-07 Analyst: DA GR GYPSUM WALLBOARD SYSTEM MENS 3 BEHIND DOOR	WALLBOARD: NONE DETECTED TEXTURE: NONE DETECTED PAINT: NONE DETECTED (NO TAPE IN THE SAMPLE)	10 % CELLULOSE 2 % FIBROUS GLASS Matrix Type: MIXED CARBONATE - GYPSUM QC: A2
Client: 2172-7/15-204-1 Micro: 113886-08 Analyst: DA COVEBASE & ADHESIVE BREAKROOM 122 NORTHEAST	COVE BASE: NONE DETECTED ADHESIVE: NONE DETECTED	Matrix Type: CARBONATE SYNTHETIC MATERIAL
Client: 2172-7/15-205-1 Micro: 113886-09 Analyst: DA GYPSUM WALLBOARD SYSTEM BREAKROOM 122 NORTHWEST	WALLBOARD: NONE DETECTED JOINT COMPOUND: NONE DETECTED TEXTURE / PAINT: NONE DETECTED	10 % CELLULOSE 2 % FIBROUS GLASS Matrix Type: MIXED CARBONATE - GYPSUM
Client: 2172-7/15-205-2 Micro: 113886-10 Analyst: DA GYPSUM WALLBOARD SYSTEM BREAKROOM 122 NORTHEAST	WALLBOARD: NONE DETECTED JOINT COMPOUND: NONE DETECTED TEXTURE / PAINT: NONE DETECTED	10 % CELLULOSE 2 % FIBROUS GLASS Matrix Type: MIXED CARBONATE - 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 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 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; F = false positive or negative corrected, reanalysis 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. 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, and pertains only to the samples analyzed. ND = NO ASBESTOS DETECTED.

MICRO ANALYTICAL LABORATORIES, INC.

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
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

SAMPLE IDENTIFICATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
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 Matrix Type: MIXED CARBONATE - GYPSUM
Client: 2172-7/15-206-1 Micro: 113886-12 Analyst: DA GR SKIM COAT BREAKROOM 122 NORTHWEST	SKIM COAT: NONE DETECTED PAINT: NONE DETECTED TAPE: NONE DETECTED	15 % CELLULOSE Matrix Type: CARBONATE SYNTHETIC MATERIAL QC: A2
Client: 2172-7/15-206-2 Micro: 113886-13 Analyst: DA SKIM COAT BREAKROOM 122 NORTHEAST	SKIM COAT: NONE DETECTED PAINT: NONE DETECTED TAPE: NONE DETECTED	15 % CELLULOSE Matrix Type: CARBONATE SYNTHETIC MATERIAL
Client: 2172-7/15-206-3 Micro: 113886-14 Analyst: DA SKIM COAT BREAKROOM 122 NORTHEAST	SKIM COAT: NONE DETECTED PAINT: NONE DETECTED TAPE: NONE DETECTED	15 % CELLULOSE Matrix Type: CARBONATE 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 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 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 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; F = false positive or negative corrected, reanalysis 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. 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, and pertains only to the samples analyzed. ND = NO ASBESTOS DETECTED.

113980

IHI Environmental

Bulk Sample Data Sheet and Chain of Custody

Project Name: COA 3 BLDGS LTD SAMPLING	Date: 7/15/08	Notes:	
Project Number: 08R-2172	PLM / Pt.Cnt. / AA		
Address: 1401 LAKESIDE DR, OAKLAND	Turn Around Time		
Sampled By: M. BENEFIELD	Rush (24hr) Std		

	Sample ID#	Material Description	Sample Location	Photo
01	2172-7/15-201-1	Ceramic Wall Tile Adhesive & Grout	MENS (3) NEAR DOOR	
02	2172-7/15-202-1	Ceramic Floor Tile Adhesive & Grout	MEN'S (3) @ DOOR THRESHOLD	
03	2172-7/15-201-2	Ceramic Wall Tile Adhesive & Grout	WOMEN (1) SOUTH WALL	
04	2172-7/15-202-2	Ceramic Wall Tile Adhesive & Grout	WOMEN (1) @ DOOR THRESHOLD	
05	2172-7/15-201-3	Ceramic Wall Tile Adhesive & Grout	WOMEN (4) BY DOOR	
06	2172-7/15-202-3	Ceramic Floor Tile Adhesive & Grout	WOMEN (4) @ DOOR THRESHOLD	
07	2172-7/15-203-1	GYPSUM WALLBOARD SYSTEM	MENS (3) Behind Door	
08	2172-7/15-204-1	COVEBASE & ADHESIVE	BREAK RM (12) NORTH EAST	
09	2172-7/15-205-1	GYPSUM WALLBOARD SYSTEM	BREAK RM (12) NW	
10	2172-7/15-205-2	GYPSUM WALLBOARD SYSTEM	" " NE	
11	2172-7/15-205-3	GYPSUM WALLBOARD SYSTEM	" " NE	
12	2172-7/15-206-1	SKIM COAT	" " NW	
13	2172-7/15-206-2	SKIM COAT	" " NE	
14	2172-7/15-206-3	SKIM COAT	" " NE	
		Bill to Co. Alameda		

Relinquished By:	Date//Time 7/15/08 1:40	Relinquished By:	Date//Time
Received By:	Date//Time 7-15-08 13:41	Received By:	Date//Time

RGA ENVIRONMENTAL
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)

NVLAP LAB CODE 200613-0

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

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

Analyzed By: Adam Kinch 1/18/2013

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact
Company:	County of Alameda
Client Address:	neral Services Agency / 1401 Lakeside Dr., 11th Fl
Oakland (City)	CA (State) 94612 (Zip)
Phone #:	
2nd or Cell #:	
Fax #:	
e-mail Address:	
Project Manager:	Steff Steiner

RGA Batch #:	13-0112
RGA Project #:	COAL31970
Client Job #:	
Number of Samples:	4

TYPE OF ANALYSIS		
ASBESTOS:	**METALS:**	
____ PCM (air)	____ Paint	____ Soil
__X__ PLM (bulk)	____ Wipe	____ Air
____ Pt. Count (bulk)	____ TCLP	____ Water
MOLD: P&K ___ 100 ___ 101 ___ 102 ___ 105 ___ 117		
Other Method:		

Project Location:	Parking Garage
	1401 Lakeside
	Oakland, CA

Condition: __X__ Good _____ Damaged _____ Severe Damage

Turn Around Time (other): 24 hour		
2 hour / 4 hour	Same Day	~~One Day~~
Two Day	3-5 days	10 days
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			

	Signature	Date	Time
Sampled by:	S. ROGERS	1/16/13	
Relinquished by:			
Received by:	DUANE FLOHRA	1/16/13	1440
Relinquished by:			
Received for Laboratory by:		1/17/13	1311
Analyzed by:			
Preliminary Results Reported to P.M. by:		1/18/13	
Final Report to P.M. by:			

Special Instructions:
Due by 1/18/2013

Analyze all samples

13-0112

RGA
ENVIRONMENTAL

PM – S. Steiner steff@rgaenv.com fax: 510.899.7051
PM – K. Schroeter karin@rgaenv.com fax: 510.899.7063
PM – K. Pilgrim ken@rgaenv.com fax: 510.899.7053
PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070
PM – B. Gils bob@rgaenv.com fax: 510.899.7050
PM – Marlin Bryant marlin.bryant@rgaenv.com fax:510.899.7062

ACM BULK SAMPLE DATA SHEET

* PLM Analysis
___ Stop Analysis at First Positive
✓ Analyze All Samples
___ Point Count Analysis (400-point)

PAGE 1 OF 1

Project Name/Address/Building No. : 1401 Lakeside, Oakland CA (Parking garage)

RGA Project: COAL-31970 **Sampled By:** S Rogers **Sample Date** 1-16-13

Sample(s) Sent To: ✓ RGA ___ EMSL ___ Other: _____ TAT: ___ Rush ✓ 24Hrs ___ 3-5 Days

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

***ADDITIONAL REPORT RECIPIENT(S): _____ ***

HM# 1	Material Description: Concrete wall	
Sample ID	Sample Location & Material Location	Quantity:
1-A	P-1 Parking garage South wall at water main	
1-B	P-2 Parking garage South wall at sprinkler system main	

HM# 2	Material Description: Concrete Floor	
Sample ID	Sample Location & Material Location	Quantity:
2-A	P-1 Parking garage at South wall water main	
2-B	P-2 Parking garage at South wall sprinkler main	

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
A		
B		
C		

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
A		
B		
C		

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
A		
B		
C		
D		
E		
F		
G		

Relinquished By: Steve Rogers Signature: _____ Date/Time: 1-16-13 1730

Received By: Duane Flohra Signature: _____ Date/Time: JAN 16 2013/1440

Relinquished By: _____ Signature: _____ Date/Time: _____

Received By: RAZ MANSURD Signature: _____ Date/Time: 1/17/13

04430 /1931
Ent 3/2/16

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

ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866

NVLAP®
NVLAP Lab Code: 101891-0
Berkeley, CA

Dec-24-15

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

RE: LABORATORY JOB # 338360
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.

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

Contact: Steffan Steiner

Address: Terracon Consultants, Inc.
1260 45th Street
Emeryville, CA 94608

Samples Indicated: 7
Reg. Samples Analyzed: 7
Split Layers Analyzed: 0

Report No. **338360**
Date Submitted: Dec-23-15
Date Reported: Dec-24-15

Job Site / No. 1401 Lakeside Drive Oakland, California
R1158379

SAMPLE ID	ASBESTOS % 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 # 1434-00642-006		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
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	

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

Analyst Jo Ann Hnatko

ASBESTOS TEM LABORATORIES, INC.
www.asbestostemlabs.com

600 Bancroft Way, Ste. A, Berkeley CA 94710 (510) 704-8930
With Offices in Reno, NV (775) 359-3377

Terracon

■ PM – S. Steiner ssteiner@terracon.com	☐ PM – K. Schroeter kmschroeter@terracon.com	☐ PM – K. Pilgrim kmpilgrim@terracon.com
☐ PM – M. Bryant mvbryant@terracon.com	☐ PM – T. Kattchee takattchee@terracon.com	☐ PM – B. Gils regils@terracon.com
☐ PM- M. Benefield msbenefield@terracon.com	☐ PM D. Ufferfilge dufferfilge@terracon.com	☐ PM – M. Bishop mrbishop@terracon.com
☐ PM – W. Frieszell wmfrieszell@terracon.com	X send copy of results to jason.garrison@acgov.org	

ACM BULK SAMPLE DATA SHEET
☒ PLM Analysis (Analyze all samples)
☐ Stop Analysis at First Positive
☐ Point Count Analysis (400-point)

PAGE 1 OF 1

Project Name/ Address/ Building No. 1401 Lakeside Drive Oakland, California

Project# R1158379 Sampled By: John Urban Sampling Date: 12-23-15

Sample(s) sent to: ☐ RGA ☐ EMSL ☒ Other _____ TAT ☒ Rush ☐ 24HRS ☐ 3-5 days

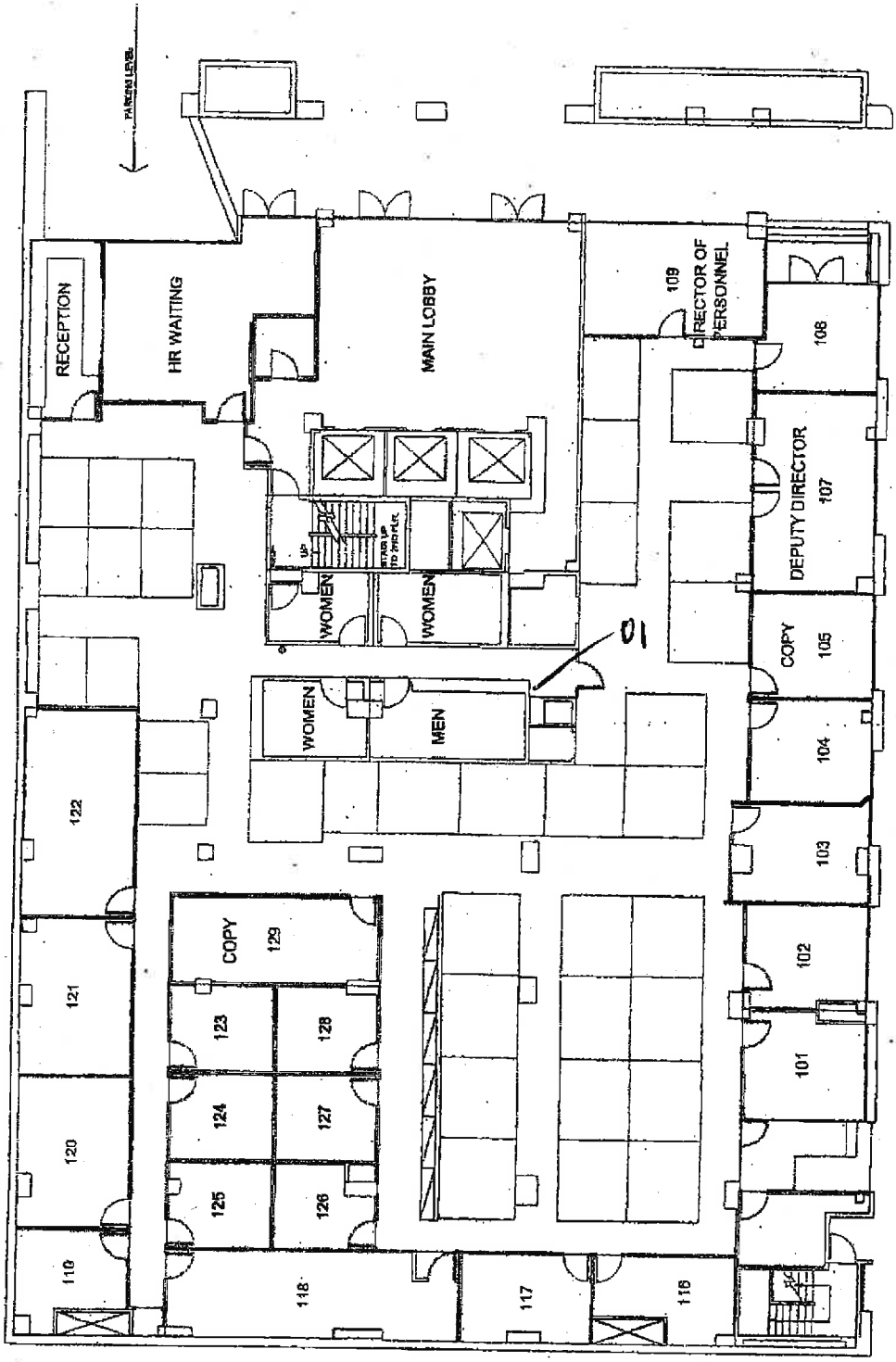
FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)**

***ADDITIONAL REPORT RECIPIENT(S): John@rgaenv.com ***

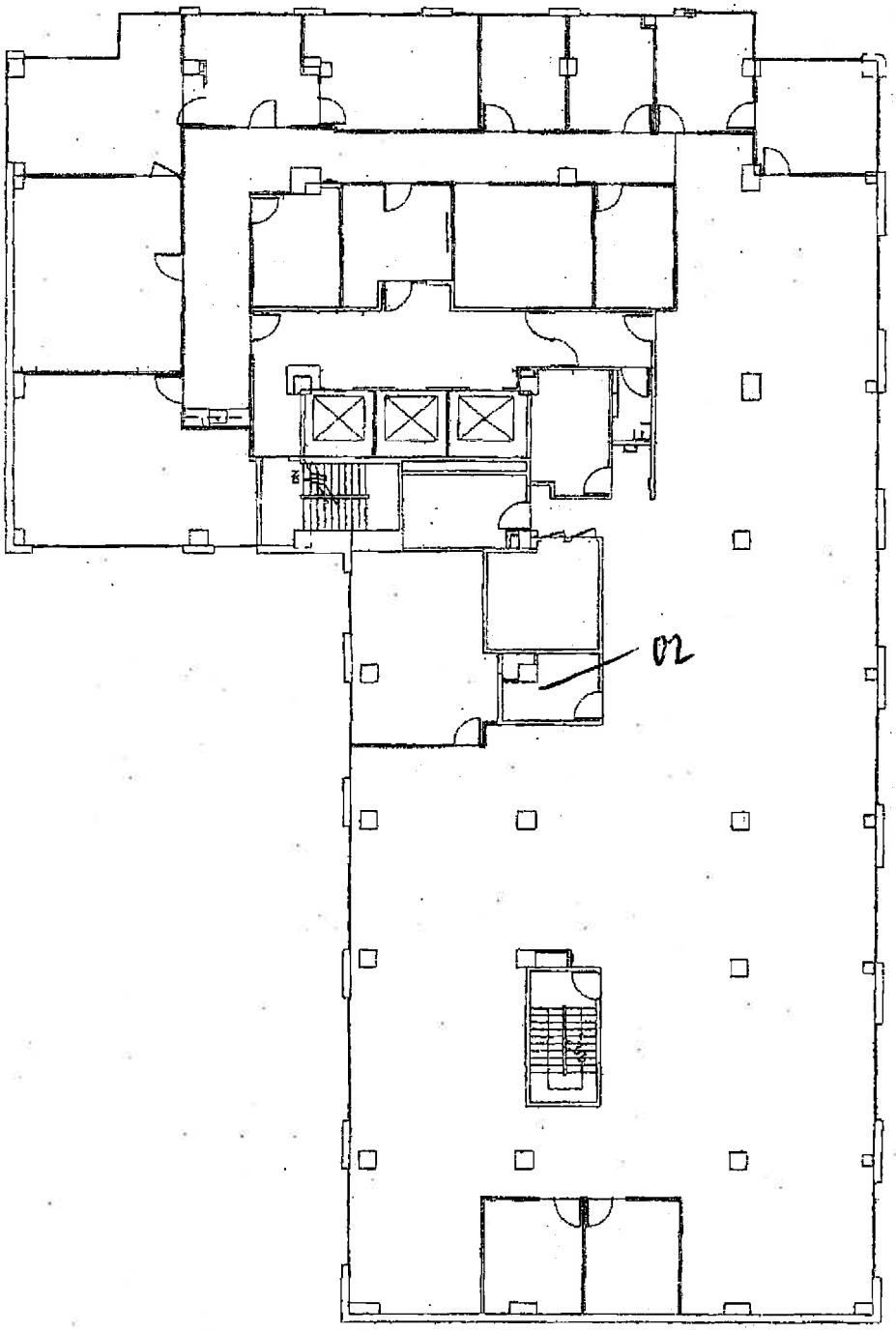
HM# 1	Material Description: Concrete	
Sample ID	Sample Location & Material Location	Quantity:
01-SP5-01	1st floor electrical room	
01-SP5-02	4th floor electrical room	
01-SP5-03	7th floor electrical room	
HM# 1	Material Description: Concrete	
Sample ID	Sample Location & Material Location	Quantity:
01-SP5 -04	9th floor electrical room	
01-SP5-05	10th floor electrical room	
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	
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

Relinquished By:	John Urban	Signature:	John Urban	Date/Time:	12-23-15
Received By:	Chase Aguirre	Signature:		Date/ Time:	
Relinquished By:		Signature:		Date/Time:	
Received By:		Signature:		Date/Time:	

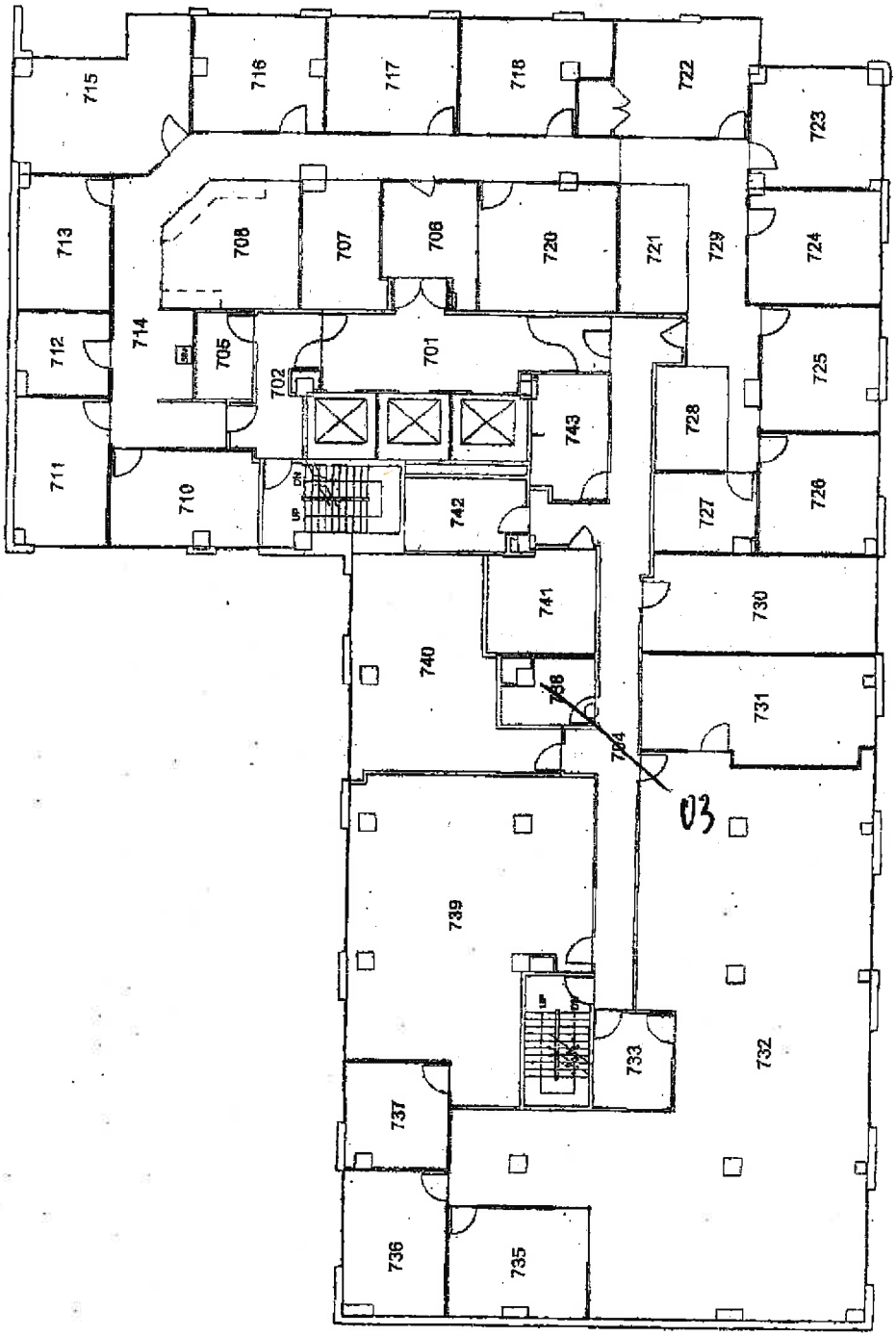
Bldg # Drawing Name Floor:	04430-Lakeside-1st Flr	USF:	10,699
Building Name:	Lakeside Plaza	Print Date:	6/19/2007
Street Address:	1401 Lakeside Drive	City:	Oakland



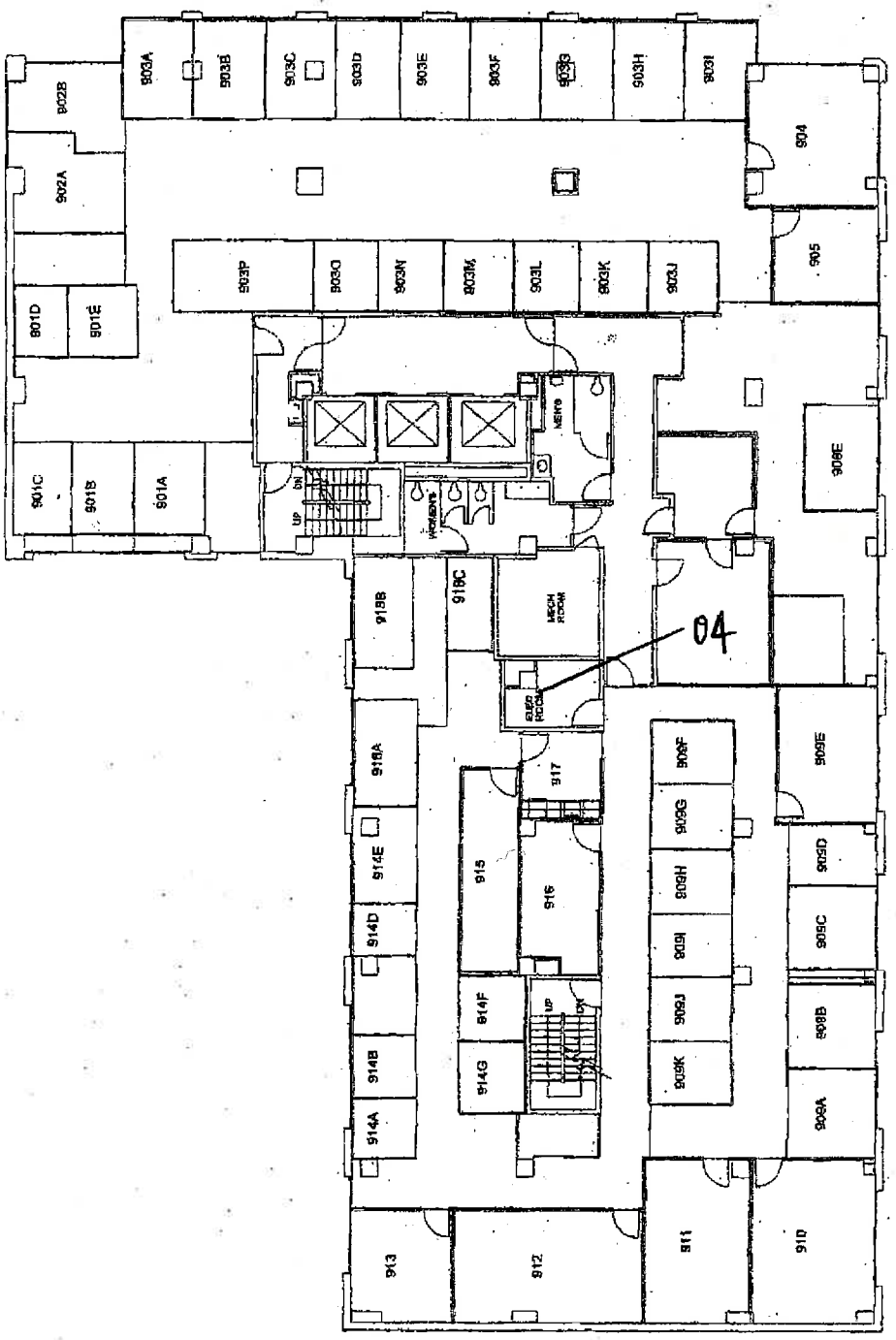
Bldg # Drawing Name Floor:	04430-Lakeside-4th Flr	USF:	9,728
Building Name:	Lakeside Plaza	Print Date:	8/19/2007
Street Address:	1401 Lakeside Drive	City:	Oakland



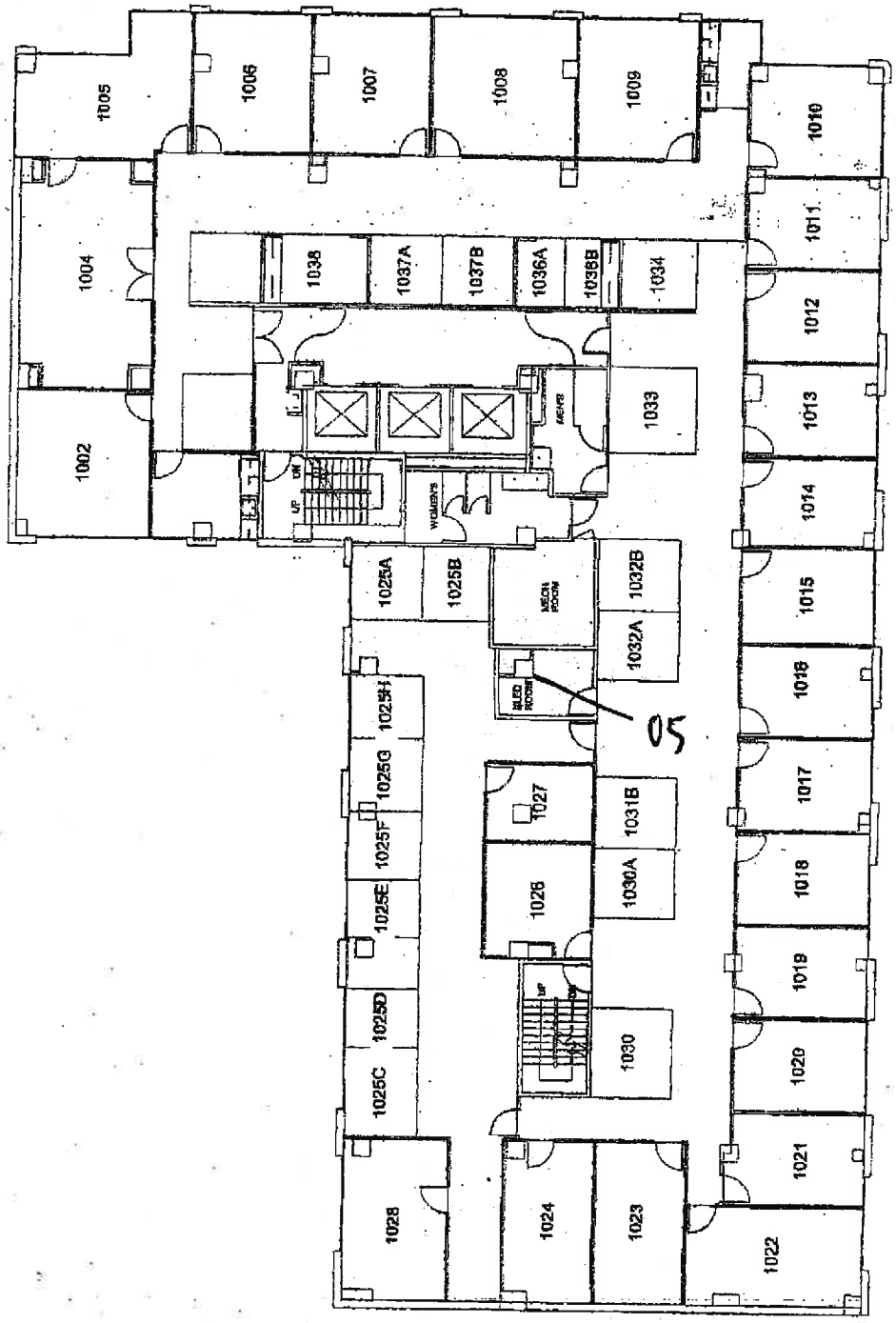
Bldg # Drawing Name Floor:	04430-Lakeside-7th Flr	USF:	9,882
Building Name:	Lakeside Plaza	Print Date:	6/19/2007
Street Address:	1401 Lakeside Drive	City:	Oakland



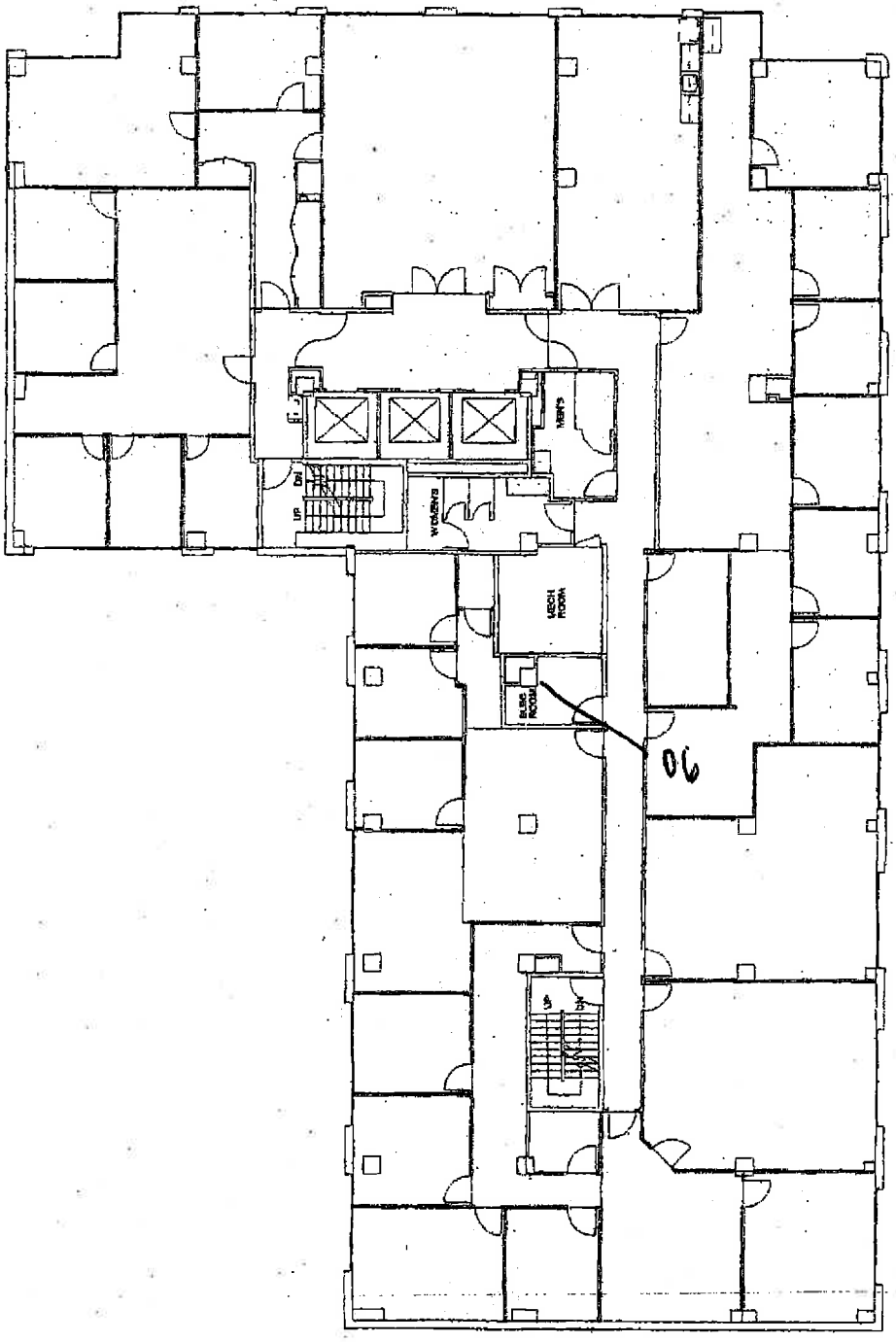
Bldg # Drawing Name Floor:	04430-Lakeside-9th Flr	RSF:	9,369
Building Name:	Lakeside Plaza	Print Date:	6/19/2007
Street Address:	1401 Lakeside Drive	City:	Oakland



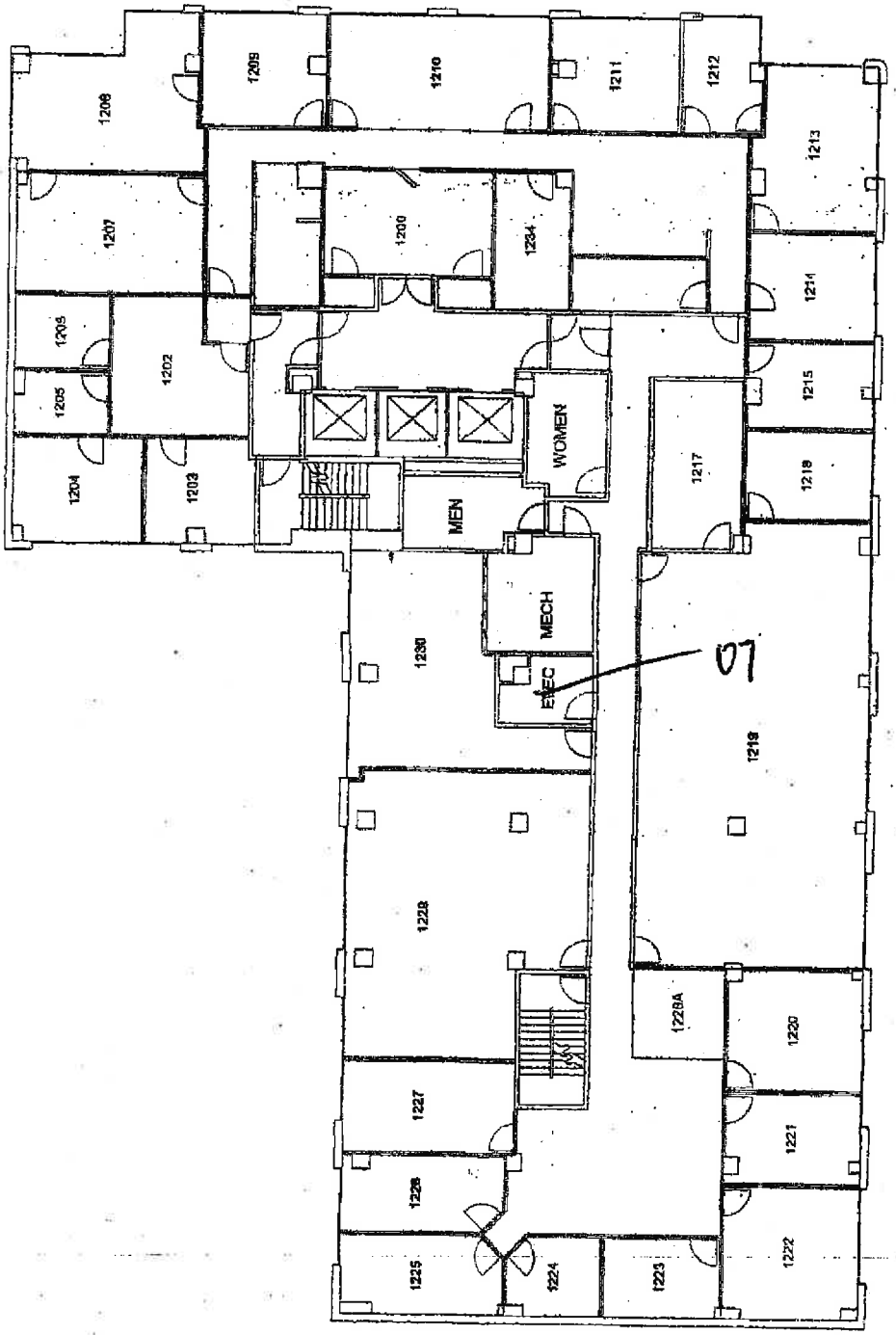
Bldg # Drawing Name Floor:	04430-Lakeside-10th Flr.	USF:	9,471
Building Name:	Lakeside Plaza	Print Date:	6/19/2007
Street Address:	1401 Lakeside Drive	City:	Oakland



Bldg # Drawing Name Floor:	04430-Lakeside-11th Flr	USF:	6,874
Building Name:	Lakeside Plaza	Print Date:	6/19/2007
Street Address:	1401 Lakeside Drive	City:	Oakland



Bldg # Drawing Name Floor:	04430-Lakeside-12th Flr	USF:	10,120
Building Name:	Lakeside Plaza	Print Date:	6/19/2007
Street Address:	1401 Lakeside Drive	City:	Oakland



BLDG. 04430/1931
ENT. 1/30/17

ASBESTOS TEM LABORATORIES, INC.

EPA Interim Method
Polarized Light Microscopy
Analytical Report

Laboratory Job # 346489

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®
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.

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

Contact: S. Steiner

Address: Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

Samples Indicated: 4
Reg. Samples Analyzed: 4
Split Layers Analyzed: 2

Job Site / No. 1401 Lakeside Rm 1028
R1167F47

Report No. **346489**
Date Submitted: Dec-22-16
Date Reported: Dec-23-16

SAMPLE ID	ASBESTOS %	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
Lab 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
Lab 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.
Lab 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.	
Lab 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
Lab ID # 1434-01940-003			3) 4) Dec-23-16	Mastic-Yellow
1401-02B		**None Detected**	1) None Detected 2) 99-100% Calc, Bndr	Yellow Cove Glue - Rm 1028
Lab ID # 1434-01940-004			3) 4) Dec-23-16	Mastic-Yellow
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	

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

Analyst Jo Ann Hunter

ASBESTOS TEM LABORATORIES, INC.
www.asbestostemlabs.com

600 Bancroft Way, Ste. A, Berkeley CA 94710 (510) 704-8930
With Offices in Reno, NV (775) 359-3377

340189 Terracon

☑ PM – S. Steiner spsteiner@terracon.com	☐ PM – K. Schroeter kmschroeter@terracon.com	☐ PM – K. Pilgrim kmpilgrim@terracon.com
☐ PM – M. Bryant mvbryant@terracon.com	☐ PM – T. Kattchee tekattchee@terracon.com	☐ PM – W. Frieszell wmfrieszell@terracon.com
☐ PM- M. Benefield msbenefield@terracon.com	☐ PM D. Ufferfilge dufferfilge@terracon.com	☐ PM – M. Bishop mrbishop@terracon.com

ACM BULK SAMPLE DATA SHEET

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

PAGE 1 OF 1

Project Name/ Address/ Building No. 1401 Lakeside Rm 10256

Project# 21167147 **Sampled By:** Mike B **Sampling Date:** 12/22/16

Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other

TAT ☐ Rush ☒ 24HRS ☐ 48HR ☐ 3-5 days

HM# 1401-01	Material Description: DW + JC	
Sample ID	**Sample Location & Material Location**	**Quantity:**
1401-01A	Rm 10256 SE Corner	
1401-01B	" " E wall at Col.	

HM# 1401-02	Material Description: Yellow Cove Base	
Sample ID	**Sample Location & Material Location**	**Quantity:**
1401-02A	Rm 10256	
1401-02B	" "	

HM#	Material Description:	
Sample ID	**Sample Location & Material Location**	**Quantity:**

HM#	Material Description:	
Sample ID	**Sample Location & Material Location**	**Quantity:**

HM#	Material Description:	
Sample ID	**Sample Location & Material Location**	**Quantity:**

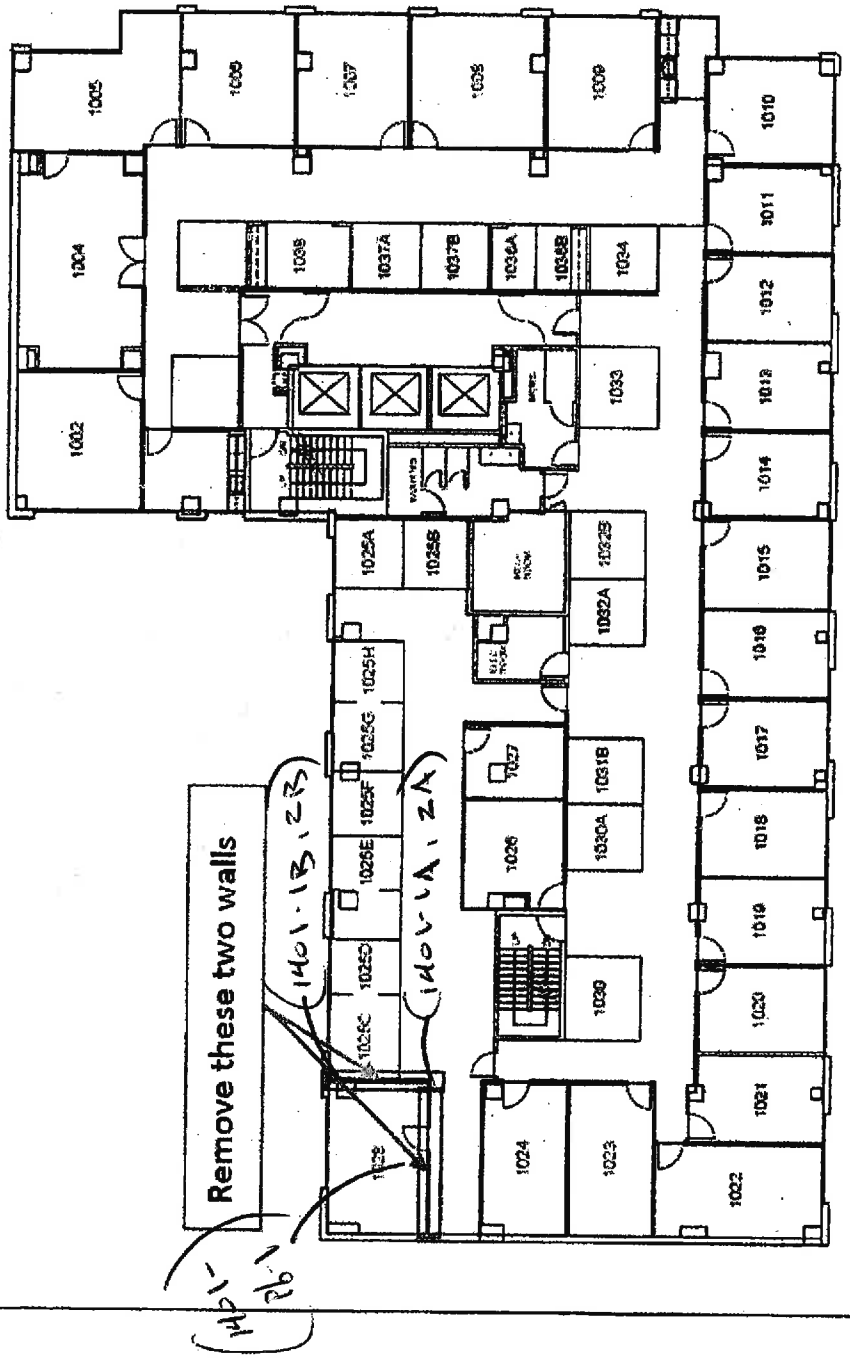
Relinquished By:	Mike B	**Signature:**		**Date/Time:**	12/22/16
Received By:		**Signature:**		**Date/ Time:**	
Relinquished By:		**Signature:**		**Date/Time:**	
Received By:		**Signature:**		**Date/Time:**	

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

12-22-16 P02:27 IN

R1167 F47
12/22/14

Bldg #-Drawing Name-Floor:	04430-Lakeside-10th Flr	USF:	9,471
Building Name:	Lakeside Plaza	Print Date:	12/20/2007
Street Address:	1401 Lakeside Drive	City:	Oakland



MICRO ANALYTICAL LABORATORIES, INC.

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 4
Date Sampled 08/02/2017
Date Received 08/02/2017
Date Analyzed 08/02/2017

SAMPLE IDENTIFICATION	QUANTITY (AREA %) / TYPES / LAYERS ASBESTOS INFORMATION ND = NO ASBESTOS DETECTED	DOMINANT OTHER MATERIALS
Client #: **1401-01A** Micro #: 235364-01 Analyst: EK GR **HM #1401-01 - 12" GREY TILE WITH BLACK MASTIC** **IT SERVER ROOM - 1ST FLOOR**	**FLOOR TILE: ND** **BLACK MASTIC: ND**	NFM: SYNTHETIC MATERIAL, CARBONATE, ADHESIVE.
Client #: **1401-01B** Micro #: 235364-02 Analyst: EK **HM #1401-01 - 12" GREY TILE WITH BLACK MASTIC** **IT SERVER ROOM - 1ST FLOOR**	**FLOOR TILE: ND** **BLACK MASTIC: ND**	NFM: SYNTHETIC MATERIAL, CARBONATE, ADHESIVE.
Client #: **1401-02A** Micro #: 235364-03 Analyst: EK **HM #1401-02 - CONCRETE** **IT SERVER ROOM - 1ST FLOOR**	**CONCRETE: ND**	NFM: ROCK FRAGMENTS, CARBONATE, BINDER
Client #: **1401-02B** Micro #: 235364-04 Analyst: EK **HM #1401-02 - CONCRETE** **IT SERVER ROOM - 1ST FLOOR**	**CONCRETE: ND**	NFM: ROCK FRAGMENTS, CARBONATE, BINDER

Technical Supervisor: _____ 8/2/2017
Gamini Ranatunga, Ph.D. 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 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 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 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 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, samples shall be marked with letters and analyzed separately. Layers within a sample 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. The notation ND (or "NONE DETECTED") indicates a result of "NO ASBESTOS DETECTED" in a homogeneous sample, or in a layer of a heterogeneous sample. Composite asbestos percentages from multiple layers 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): all results have been determined to be within acceptance limits prior to reporting. Reanalyzed samples are denoted by two sets of analyst initials. 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 except in full, without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed. NFM = Non-fibrous materials.

2353364

Terracon

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

X PM – S. Steiner spsteiner@terracon.com
__ PM – K. Schroeter kmschroeter@terracon.com
__ PM – K. Pilgrim kmpilgrim@terracon.com
__ PM- M. Benefield msbenefield@terracon.com
__ PM – T. Kattchee takattchee@terracon.com
__ PM – W. Frieszell wmfrieszell@terracon.com

ACM BULK SAMPLE DATA SHEET

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

PAGE 1 OF 1

Project Name/Address/Building No. : 1401 LAKESIDE DR

Project #: R1177890 **Sampled By:** MC **Sampling Date:** 8/2/17

Sample(s) Sent To: __ Emlab ___MAL ___ other: _____ TAT: __ Rush (X)24Hrs ___ 48Hrs __ 3-5 Days

	HM# 1401-01	Material Description 12" GREY TILE w/ BLACK MASTIC	
	Sample ID	Sample Location & Material Location	Quantity:
1	1401-01A	IT SERVER ROOM - 1ST FLOOR	
2	-01B	" "	

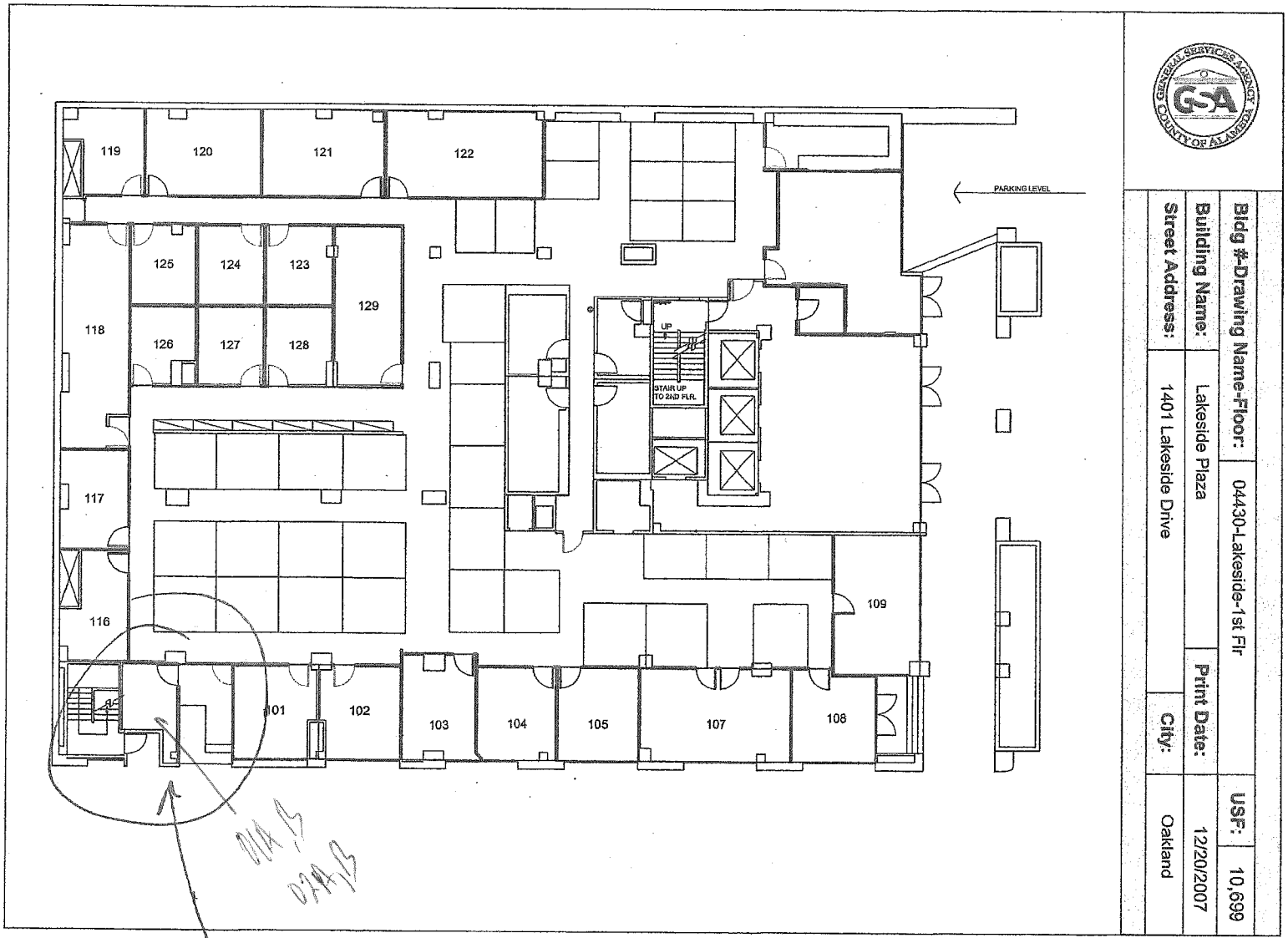
	HM# 1401-02	Material Description: CONCRETE	
	Sample ID	Sample Location & Material Location	Quantity:
3	1401-02A	IT SERVER ROOM - 1ST FLOOR	
4	02B	" "	

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

Relinquished By: M. Chi Signature: _____ Date/Time: 8/2/17
Received By: _____ Signature: _____ Date/Time: 8/2/17 13:57
Relinquished By: _____ Signature: _____ Date/Time: _____
Received By: _____ Signature: _____ Date/Time: _____



Server room needs tile
Checked if it contains asbestos.

Bldg #-Drawing Name-Floor:	04430-Lakeside-1st Flr
Building Name:	Lakeside Plaza
Street Address:	1401 Lakeside Drive
City:	Oakland
Print Date:	12/20/2007
USF:	10,699

EMLab P&K
A TestAmerica Company

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
EML ID: 1818335

Approved by:

Renee Luna-Trepczynski

Approved Signatory
Renee Luna-Trepczynski

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

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.

EMLab P&K
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 Alcoves/Oakland, CA

Date of Sampling: 10-20-2017
Date of Receipt: 10-23-2017
Date of Report: 10-25-2017

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 Lab ID-Version‡: 8514994-1

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

Location: 1405-01B, Concrete Floor;Southwest Alcove West Side Floor Lab ID-Version‡: 8514995-1

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 Lab ID-Version‡: 8514996-1

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 Lab ID-Version‡: 8514997-1

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

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K
1501 West Knudsen Drive, Phoenix, AZ 85027
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Client: RGA Environmental, Inc.
C/O: Mr. Steffen Steiner
Re: R1167B67; 1405 Lakeside, 14th St. Side Door Alcoves/Oakland, CA

Date of Sampling: 10-20-2017
Date of Receipt: 10-23-2017
Date of Report: 10-25-2017

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‡: 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

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K
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 Alcoves/Oakland, CA

Date of Sampling: 10-20-2017
Date of Receipt: 10-23-2017
Date of Report: 10-25-2017

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

Location: 1405-04A, Exterior Stucco;Southwest Alcove Central Wall Lab ID-Version‡: 8515001-1

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

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K
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 Alcoves/Oakland, CA

Date of Sampling: 10-20-2017
Date of Receipt: 10-23-2017
Date of Report: 10-25-2017

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

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 Lab ID-Version‡: 8515003-1

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

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K
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Client: RGA Environmental, Inc.
C/O: Mr. Steffen Steiner
Re: R1167B67; 1405 Lakeside, 14th St. Side Door Alcoves/Oakland, CA

Date of Sampling: 10-20-2017
Date of Receipt: 10-23-2017
Date of Report: 10-25-2017

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

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

001818335

Terracon

☑ PM – S. Steiner spsteiner@terracon.com
☐ PM – K. Schroeter kmschroeter@terracon.com
☐ PM – K. Pilgrim kmpilgrim@terracon.com
☐ PM- M. Benefield msbenefield@terracon.com
☐ PM – T. Kattchee takattchee@terracon.com
☐ PM – W. Frieszell wmfrieszell@terracon.com
☐ PM D. Ufferfige dufferfige@terracon.com

SAMPLE DATA SHEET

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

PAGE 1 OF 2

Project Name/ Address/ Building No. 1405 Lakeside, 14th St. Side Door Alcove/ Oakland CA
Project# R116786 7 **Sampled By:** J. Alexander **Sampling Date:** 10/20/17
Sample(s) sent to: ☐ MAL ☐ AERO ☑ EMLAB ☐ Other
TAT ☐ Rush ☐ 24HRS ☐ 48HR ☑ 3-5 days

HM#	Material Description	Quantity:
1405-01	Concrete Floor	
Sample ID	**Sample Location & Material Location**	
1405-01A	Southwest Alcove East Side Floor	
1405-01B	Southwest Alcove West Side Floor	
HM# 1405-02	Material Description: Building Expansion Sealant	
Sample ID	**Sample Location & Material Location**	**Quantity:**
1405-02A	Southwest Alcove East Side Wall	
1405-02B	Southwest Alcove West Side Wall	
HM# 1405-03	Material Description: Exterior Stucco with Aggregate	
Sample ID	**Sample Location & Material Location**	**Quantity:**
1405-03A	Southwest Alcove East Side Wall	
1405-03B	Southwest Alcove East Side Wall	
1405-03C	Southwest Alcove West Side Wall	
HM# 1405-04	Material Description: Exterior Stucco	
Sample ID	**Sample Location & Material Location**	**Quantity:**
1405-04A	Southwest Alcove Exterior Wall	
1405-04B	Southwest Alcove East Side Wall	
1405-04C	Southwest Alcove West Side Wall	
HM# 1405-05	Material Description: Wallboard with Taping Mud	
Sample ID	**Sample Location & Material Location**	**Quantity:**
1405-05A	Southwest Electrical Room South Wall	
1405-05B	Southwest Electrical Room East Wall	

Relinquished By:	John Alexander	Signature:		Date/Time:	10/20/17
Received By:	Heidi Santos	Signature:		Date/ Time:	OCT 20 2017
Relinquished By:	FedEx 935	Signature:		Date/Time:	10/23/17
Received By:		Signature:		Date/Time:	

001818335

Terracon

☑ PM – S. Steiner ssteiner@terracon.com
☐ PM – K. Schroeter kmschroeter@terracon.com
☐ PM – K. F. kmpfarm@terracon.com
☐ PM- M. Benefield msbenefield@terracon.com
☐ PM – T. Kaltchee takaltchee@terracon.com
☐ PM – W. Frieszell wmfrieszell@terracon.com
☐ PM D. Ufferfilge dufferfilge@terracon.com

BULK SAMPLE DATA SHEET

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

Project Name/ Address/ Building No. 1405 LaKeside, 14th St. Side Door Alcove/Oakland/CA
Project# R1167867 **Sampled By:** J. Alexander **Sampling Date:** 10/20/17
Sample(s) sent to: ☐ MAL ☐ AERO ☑ EMLAB ☐ Other
TAT ☐ Rush ☐ 24HRS ☐ 48HR ☑ 3-5 days

HM# 1405-06	**Material Description** 9" Gray Base Cove with Yellow Adhesive
Sample ID	**Sample Location & Material Location** **Quantity:**
1405-06A	Southwest Electrical Room South wall
1405-06B	Southwest Electrical Room East wall

HM# 1405-07	**Material Description:** 12" Gray VFT with Black Mastic
Sample ID	**Sample Location & Material Location** **Quantity:**
1405-07A	Southwest Electrical Room Floor 80 square feet
1405-07B	Southwest Electrical Room Floor

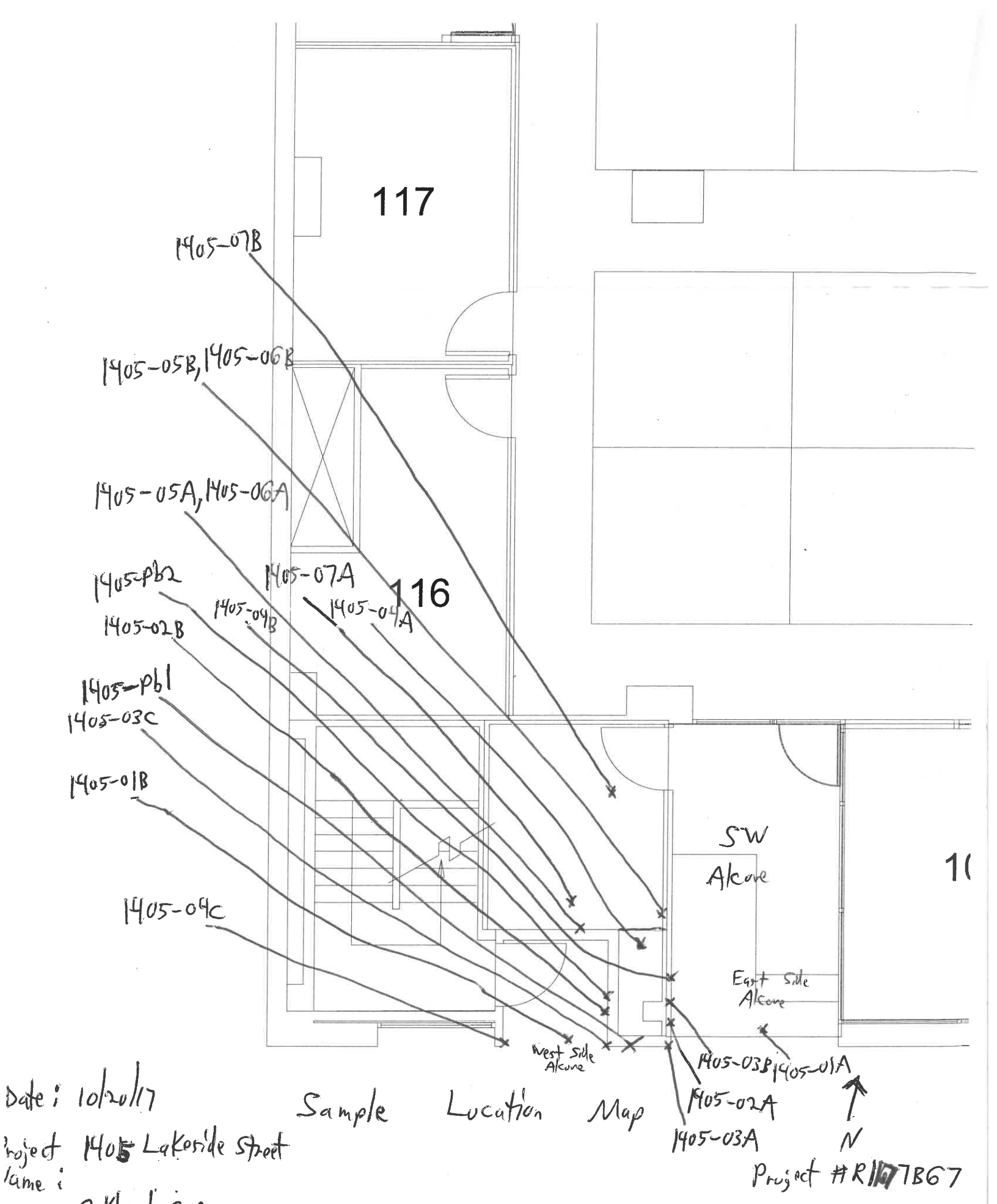
HM#	**Material Description:**
Sample ID	**Sample Location & Material Location** **Quantity:**

HM#	**Material Description:**
Sample ID	**Sample Location & Material Location** **Quantity:**

HM#	**Material Description:**
Sample ID	**Sample Location & Material Location** **Quantity:**

Relinquished By: Jyhe Alexander Signature: Date/Time: 10/20/17
Received By: Heidi Santos Signature: Date/Time: OCT 20 2017
Relinquished By: FedEx 935 Signature: Date/Time: 10/23/17
Received By: Signature: Date/Time:

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

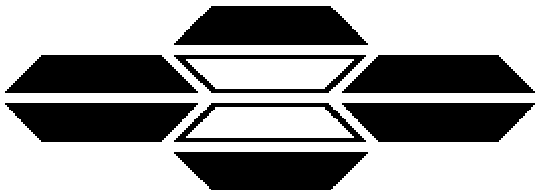


Date: 10/20/17

Sample Location Map

Project Name: 1405 Lakeside Street
Oakland, CA
Southwest Alcove

Project #R17B67



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

ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866

NVLAP Lab Code: 101891-0
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.

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

Contact: Steff Steiner

Address: Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

Samples Indicated: 8
Reg. Samples Analyzed: 8
Split Layers Analyzed: 6

Report No. **359739**
Date Submitted: Aug-20-18
Date Reported: Aug-20-18

Job Site / No. 1401 Lakeside Dt. - 12th Floor
R1187902

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 Lab ID # 1434-03766-001	**None Detected**	1) 1-5% Fiberglass 2) 95-99% GlassFoam, Opq 3) Aug-20-18 4) Aug-20-18	2'x4' White Pinhole Fissure Act - 12th Floor - #1219 A - (S) Ceiling Tile-Grey
1401-12-1B Lab ID # 1434-03766-002	**None Detected**	1) 1-5% Fiberglass 2) 95-99% GlassFoam, Opq 3) Aug-20-18 4) Aug-20-18	2'x4' White Pinhole Fissure Act - 12th Floor - #1219 A - (N) Ceiling Tile-Grey
1401-12-2A Lab ID # 1434-03766-003A	**None Detected**	1) 1-5% Cellulose 2) 95-99% Opq, Gyp 3) Aug-20-18 4) Aug-20-18	DW with Joint Comp. - 12th Floor - #1219A - (N) Drywall-White
1401-12-2A Lab ID # 1434-03766-003B	**None Detected**	1) 1-5% Cellulose 2) 95-99% Calc, Opq 3) 4) Aug-20-18	DW with Joint Comp. - 12th Floor - #1219A - (N) JointCom/Text-Off-White
1401-12-2B Lab ID # 1434-03766-004A	**None Detected**	1) 1-5% Cellulose 2) 95-99% Opq, Gyp 3) Aug-20-18 4) Aug-20-18	DW with Joint Comp. - 12th Floor - #1219A - (S) Drywall-White
1401-12-2B Lab ID # 1434-03766-004B	**None Detected**	1) 1-5% Cellulose 2) 95-99% Calc, Opq 3) 4) Aug-20-18	 JointCom/Text-Off-White
1401-12-3A Lab ID # 1434-03766-005A	**None Detected**	1) None Detected 2) 99-100% Opq, Calc, Bndr 3) Aug-20-18 4) Aug-20-18	4" Black Base Cove with Glue - 12th Floor - #1219A - (N) Baseboard-Black
1401-12-3A Lab ID # 1434-03766-005B	**None Detected**	1) None Detected 2) 99-100% Glue 3) 4) Aug-20-18	4" Black Base Cove with Glue - 12th Floor - #1219A - (N) Mastic-White
1401-12-3B Lab ID # 1434-03766-006A	**None Detected**	1) None Detected 2) 99-100% Opq, Calc, Bndr 3) Aug-20-18 4) Aug-20-18	4" Black Base Cove with Glue - 12th Floor - #1219A - (S) Baseboard-Black
1401-12-3B Lab ID # 1434-03766-006B	**None Detected**	1) None Detected 2) 99-100% Glue 3) 4) Aug-20-18	 Mastic-White

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

Analyst Jo Ann Hewitt

ASBESTOS TEM LABORATORIES, INC.
www.asbestostemlabs.com

600 Bancroft Way, Ste. A, Berkeley CA 94710 (510) 704-8930
With Offices in Reno, NV (775) 359-3377

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

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

Contact: Steff Steiner

Address: Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

Samples Indicated: 8
Reg. Samples Analyzed: 8
Split Layers Analyzed: 6

Report No. **359739**
Date Submitted: Aug-20-18
Date Reported: Aug-20-18

Job Site / No. 1401 Lakeside Dt. - 12th Floor
R1187902

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
1401-12-4A		**None Detected**	1) None Detected 2) 99-100% Glue	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) 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)	

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

Analyst Jo Ann Hewitt

359739

Terracon

X PM – S. Steiner spsteiner@terracon.com	☐ PM – K. Schroeter kmschroeter@terracon.com	☐ PM – K. Pilgrim kmpilgrim@terracon.com
☐ PM – M. Bryant mvbryant@terracon.com	☐ PM – T. Kattchee takattchee@terracon.com	☐ PM – W. Frieszell wmfrieszell@terracon.com
☐ PM- M. Benefield msbenefield@terracon.com	☐ PM D. Ufferfilge dufferfilge@terracon.com	☐ PM – M. Bishop mrbishop@terracon.com

ACM BULK SAMPLE DATA SHEET

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

PAGE 1 OF

Project Name/ Address/ Building No. 1401 Lakeside Dr. - 12TH FLOOR

Project# R1187902 **Sampled By:** M. Reed **Sampling Date:** 8-20-18

Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other

TAT ☐ Rush ☑ 24HRS ☐ 48HR ☐ 3-5 days

HM# 1401-12-01	Material Description 2'x4' WHITE PINHOLE FISSURE ACT	
Sample ID	Sample Location & Material Location	Quantity:
1401-12-1A	12TH FLOOR - #1219A - (S)	
1B	" " (N)	

HM# 1401-12-02	Material Description: DW WITH JOINT COMP.	
Sample ID	Sample Location & Material Location	Quantity:
1401-12-2A	12TH FLOOR - #1219A - (N)	
- 2B	" " (S)	

HM# 1401-12-03	Material Description: 4" BLACK BASE COVE WITH GLUE	
Sample ID	Sample Location & Material Location	Quantity:
1401-12-3A	12TH FLOOR - #1219A - (N)	
3B	12TH FLOOR - #1219A (S)	

HM# 1401-12-04	Material Description: CARPET SQ 2'x2' - GLUE	
Sample ID	Sample Location & Material Location	Quantity:
1401-12-4A	12TH FLOOR - #1219A - N	
1401-12-4B	" " -(S)	

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

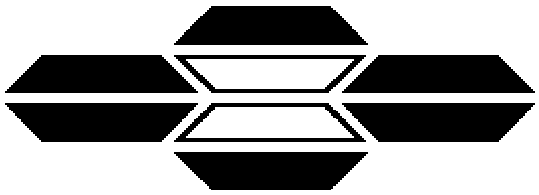
Relinquished By:	M. Reed	**Signature:**	M. R	**Date/Time:**	8-20-18
Received By:	MB	**Signature:**		**Date/ Time:**	
Relinquished By:		**Signature:**		**Date/Time:**	
Received By:		**Signature:**		**Date/Time:**	

R1187902 - 8-20-18

Scope of work
- Remove door, fill in opening
- Install dividing wall w/new door (both to clear Fire sprinklers)
- Install San. RA grilles in ceiling, one in each new room, and one in room #1219
- Paint exit both new rooms
- Carpet to remain
- Replace broken and as needed ceiling tiles
- Install outlets in new wall

N

Bldg #-Drawing Name-Floor:	04430-Lakeside-12th Flr	USF:	10,120
Building Name:	Lakeside Plaza	Print Date:	12/20/2007
Street Address:	1401 Lakeside Drive	City:	Oakland



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

ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866

NVLAP Lab Code: 101891-0
Berkeley, CA

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.

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

Contact: Steff Steiner

Address: Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

Samples Indicated: 16
Reg. Samples Analyzed: 16
Split Layers Analyzed: 5

Report No. **360736**
Date Submitted: Oct-03-18
Date Reported: Oct-05-18

Job Site / No. 1401 Lakeside Dr, Oakland, CA
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 Lab ID # 1434-03916-001A	**None Detected**	1) 1-5% Cellulose 2) 95-99% Calc, Opq 3) 4) Oct-05-18	Room#123 South wall Drywall-White
01A Lab ID # 1434-03916-001B	**None Detected**	1) None Detected 2) 99-100% Opq, Calc 3) 4) Oct-05-18	Room#123 South wall JointCom/Text-Off-White
01B Lab ID # 1434-03916-002A	**None Detected**	1) 1-5% Cellulose 2) 95-99% gyp, Opq 3) 4) Oct-05-18	Room#128 North wall Drywall-White
01B Lab ID # 1434-03916-002B	**None Detected**	1) None Detected 2) 99-100% Opq, Calc 3) 4) Oct-05-18	 JointCom/Text-Off-White
02A Lab ID # 1434-03916-003A	**None Detected**	1) 1-5% Cellulose 2) 95-99% gyp, Opq 3) 4) Oct-05-18	Room#123 South wall Drywall-White
02A Lab ID # 1434-03916-003B	**None Detected**	1) None Detected 2) 99-100% Opq, Calc 3) 4) Oct-05-18	 JointCom/Text-Off-White
02B Lab ID # 1434-03916-004	**None Detected**	1) None Detected 2) 99-100% Glue 3) 4) Oct-05-18	Room#128 North wall Mastic-Yellow
03A Lab ID # 1434-03916-005	**None Detected**	1) None Detected 2) 99-100% Glue 3) 4) Oct-05-18	Room#123 South Mastic-Yellow
03B Lab ID # 1434-03916-006	**None Detected**	1) None Detected 2) 99-100% Glue 3) 4) Oct-05-18	Room#123 North Mastic-Yellow
04A Lab ID # 1434-03916-007	**None Detected**	1) None Detected 2) 99-100% Qtz, Calc 3) 4) Oct-05-18	Room#123 CerTile-Grey

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

Analyst Jo Ann Hewitt

ASBESTOS TEM LABORATORIES, INC.
www.asbestostemlabs.com
600 Bancroft Way, Ste. A, Berkeley CA 94710 (510) 704-8930
With Offices in Reno, NV (775) 359-3377

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

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

Contact: Steff Steiner

Address: Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

Samples Indicated: 16
Reg. Samples Analyzed: 16
Split Layers Analyzed: 5

Report No. **360736**
Date Submitted: Oct-03-18
Date Reported: Oct-05-18

Job Site / No. 1401 Lakeside Dr, Oakland, CA
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 Lab ID # 1434-03916-008	**None Detected**	1) None Detected 2) 99-100% Qtz, Calc 3) 4) Oct-05-18	Room#128 CerTile-Grey
05A Lab ID # 1434-03916-009A	**None Detected**	1) 1-5% Cellulose 2) 95-99% Gyp, Opq 3) 4) Oct-05-18	Room#228 West wall Drywall-White
05A Lab ID # 1434-03916-009B	**None Detected**	1) 1-5% Cellulose 2) 95-99% Calc, Opq 3) 4) Oct-05-18	Room#228 West wall JointCom/Text-Off-White
05B Lab ID # 1434-03916-010A	**None Detected**	1) 1-5% Cellulose 2) 95-99% Gyp, Opq 3) 4) Oct-05-18	Room#222 East wall Drywall-White
05B Lab ID # 1434-03916-010B	**None Detected**	1) 1-5% Cellulose 2) 95-99% Calc, Opq 3) 4) Oct-05-18	 JointCom/Text-Off-White
06A Lab ID # 1434-03916-011	**None Detected**	1) None Detected 2) 99-100% Glue 3) 4) Oct-05-18	Room#228 West wall Mastic-White
06B Lab ID # 1434-03916-012	**None Detected**	1) None Detected 2) 99-100% Glue 3) 4) Oct-05-18	Room#222B East wall Mastic-White
07A Lab ID # 1434-03916-013	**None Detected**	1) None Detected 2) 99-100% Glue 3) 4) Oct-05-18	Room#228 West Mastic-Yellow
07B Lab ID # 1434-03916-014	**None Detected**	1) None Detected 2) 99-100% Glue 3) 4) Oct-05-18	Room#222B East Mastic-Yellow
08A Lab ID # 1434-03916-015	**None Detected**	1) 5-10% Cellulose 2) 90-95% Opq, GlassFoam 3) 4) Oct-05-18	Room#228 Ceiling Tile-Grey

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

Analyst Jo Ann Hewitt

ASBESTOS TEM LABORATORIES, INC.
www.asbestostemlabs.com
600 Bancroft Way, Ste. A, Berkeley CA 94710 (510) 704-8930
With Offices in Reno, NV (775) 359-3377

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

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

Contact: Steff Steiner

Address: Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

Samples Indicated: 16
Reg. Samples Analyzed: 16
Split Layers Analyzed: 5

Report No. **360736**
Date Submitted: Oct-03-18
Date Reported: Oct-05-18

Job Site / No. 1401 Lakeside Dr, Oakland, CA
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
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	

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

Analyst Jo Ann Hunter

#360736

Terracon

***E-MAIL REPORT TO:
*SEE BELOW PROJECT MANAGER (PM)****
ADDITIONAL RECIPIENTS
☐ denise.wallen@terracon.com ☐ eric.dyer@terracon.com

☑ PM – S. Steiner sbsteiner@terracon.com
☐ PM – K. Schroeter kmschroeter@terracon.com
☐ PM – K. Pilgrim kmpilgrim@terracon.com
☐ PM- M. Benefield msbenefield@terracon.com
☐ PM – T. Kattchee takattchee@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 1 OF 2

Project Name/ Address/ Building No. 1401 Lakeside dr, Oakland CA
Project# R1187B79 Sampled By: Steve R. Sampling Date: 10/3/18
Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☑ Other TEM
TAT ☐ Rush ☐ 24HRS ☑ 48HR ☐ 3-5 days

HM# 1	Material Description: Drywall with J/C	
Sample ID	Sample Location & Material Location	Quantity:
01A	Room #123 South wall	
01B	Room #128 North wall	

HM# 2	Material Description: Coveboard mastic	
Sample ID	Sample Location & Material Location	Quantity:
02A	Room #123 South wall	
02B	Room #128 North wall	

HM# 3	Material Description: Carpet mastic - yellow	
Sample ID	Sample Location & Material Location	Quantity:
03A	Room #123 South	
03B	Room #128 North	

HM# 4	Material Description: 2x4 lay in ceil. mg tile	
Sample ID	Sample Location & Material Location	Quantity:
04A	Room #123	
04B	Room #128	

HM# 5	Material Description: Drywall with J/C	
Sample ID	Sample Location & Material Location	Quantity:
05A	Room #228 west wall	
05B	Room #228 East wall	

Relinquished By:	Steve Rogers	Signature:		Date/Time: 10/3/18
Received By:		Signature:		Date/ Time:
Relinquished By:		Signature:		Date/Time:
Received By:		Signature:		Date/Time:

Terracon

***E-MAIL REPORT TO:
*SEE BELOW PROJECT MANAGER (PM)****
ADDITIONAL RECIPIENTS
☐ denise.wallen@terracon.com ☐ eric.dyer@terracon.com
☑ PM – S. Steiner sbsteiner@terracon.com
☐ PM – K. Schroeter kmschroeter@terracon.com
☐ PM – K. Pilgrim kmpilgrim@terracon.com
☐ PM- M. Benefield msbenefield@terracon.com
☐ PM – T. Kattchee takattchee@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 2 OF 2

Project Name/ Address/ Building No. 1461 Lakeside Dr, Oakland CA
Project# R1187B79 Sampled By: Steve R. Sampling Date: 10/3/18
Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other
TAT ☐ Rush ☐ 24HRS ☐ 48HR ☐ 3-5 days

HM# 6	Material Description Cove base mast.	
Sample ID	Sample Location & Material Location	Quantity:
06A	Room #228 west wall	
06B	Room #228 East wall	

HM# 7	Material Description: Carpet mastic yellow	
Sample ID	Sample Location & Material Location	Quantity:
07A	Room #228 west	
07B	Room #228 East	

HM# 8	Material Description: 2x4 lay in ceiling tile	
Sample ID	Sample Location & Material Location	Quantity:
08A	Room #228	
08B	Room #228	

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

Relinquished By: Steve Roscoe Signature: [signature] Date/Time: 10/5/18
Received By: _____ Signature: _____ Date/ Time: OCT '18 4:11PM
Relinquished By: _____ Signature: _____ Date/Time: _____
Received By: _____ Signature: _____ Date/Time: _____

= RECARPET AREA

= REMOVE WALL

= CORE FLOOR FOR OUTLET

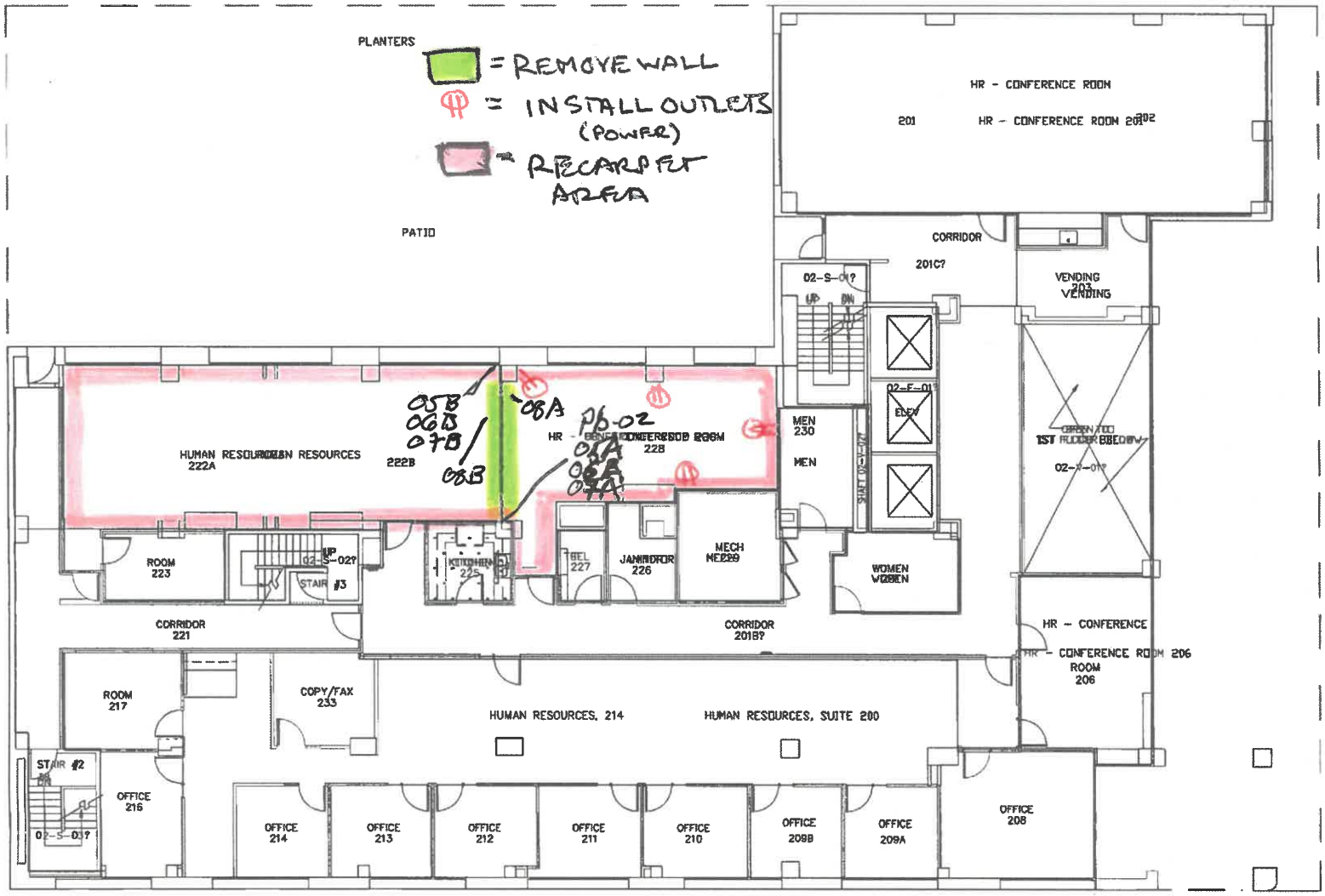
= NEW POWER OUTLET

IDSO# 580578

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

COORDINATE WITH JASMIN ALVAREZ 570.208.9594 IN ADVANCE TO BOOK ROOMS

IDSO# 580578



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

PLAN NORTH

EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Tel/Fax: (510) 895-3675 / (510) 895-3680

http://www.EMSL.com / sanleandrolab@emsl.com

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		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1401-A-01-Wallboard *91823311-0001*	WB/JC WHITE/ WHITE WALLS	White Non-Fibrous Homogeneous	2% Cellulose	80% Gypsum 18% Non-fibrous (Other)	None Detected
1401-A-01-Joint Compound *91823311-0001A*	WB/JC WHITE/ WHITE WALLS	White Non-Fibrous Homogeneous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
1401-A-01-Texture *91823311-0001B*	WB/JC WHITE/ WHITE WALLS	White Non-Fibrous Homogeneous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
1401-A-02-Drywall *91823311-0002*	WB/JC WHITE/ WHITE WALLS	Gray Non-Fibrous Homogeneous	2% Cellulose	80% Gypsum 18% Non-fibrous (Other)	None Detected
1401-A-02-Joint Compound *91823311-0002A*	WB/JC WHITE/ WHITE WALLS	White Non-Fibrous Homogeneous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
1401-A-02-Texture *91823311-0002B*	WB/JC WHITE/ WHITE WALLS	White Non-Fibrous Homogeneous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
1401-B-01-Cove Base *091823311-0003*	BC/ MASTIC - 4" BLACK/ OFF WHITE	Black Non-Fibrous Homogeneous		20% Ca Carbonate 80% Matrix	None Detected
1401-B-01-Mastic *091823311-0003A*	BC/ MASTIC - 4" BLACK/ OFF WHITE	White Non-Fibrous Homogeneous		70% Matrix 30% Non-fibrous (Other)	None Detected
1401-B-01-Compound *091823311-0003B*	BC/ MASTIC - 4" BLACK/ OFF WHITE	White Non-Fibrous Homogeneous		70% Ca Carbonate 30% Non-fibrous (Other)	None Detected
1401-B-02-Cove Base *091823311-0004*	BC/ MASTIC - 4" BLACK/ OFF WHITE	Black Non-Fibrous Homogeneous		20% Ca Carbonate 80% Matrix	None Detected
1401-B-02-Mastic *091823311-0004A*	BC/ MASTIC - 4" BLACK/ OFF WHITE	White Non-Fibrous Homogeneous		70% Matrix 30% Non-fibrous (Other)	None Detected
1401-C-01 *91823311-0005*	ACT - 2X4 WHITE, PINHOLE FISSURE - DROP CEILING	Gray Fibrous Homogeneous	45% Cellulose 45% Min. Wool	10% Perlite	None Detected
1401-C-02 *91823311-0006*	ACT - 2X4 WHITE, PINHOLE FISSURE - DROP CEILING	Gray Fibrous Homogeneous	45% Cellulose 45% Min. Wool	10% Perlite	None Detected

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

EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Tel/Fax: (510) 895-3675 / (510) 895-3680

http://www.EMSL.com / sanleandrolab@emsl.com

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

Analyst(s)

Jared Martin (13)

Matthew Batongbacal
or Other Approved Signatory

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

OrderID: 091823311

№091823311

VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: COA-GSA

DATE: 10/23/18

LOCATION: 1401 Lakeside, Oakland, CA. ROOM #730 (7TH FLOOR)

PROJECT NUMBER: 180062021

SAMPLED BY: CT

CAC OR SST NO: 13-5037

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1401	A	01	WB/JC	WHITE/WHITE, WALLS		
1401	A	02	↓	↓		
1401	B	01	BC/MASTIC	4" BLACK/OFF WHITE		
1401	B	02	↓	↓		
1401	C	01	ACT	2' x 4' WHITE, PINHOLE FISSURE	(DROP CEILING)	
1401	C	02	↓	↓	↓	

6 SAMPLES

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR (48 HR) 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS: _____

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	[signature]	Chris Trayer	10/23/18 14:00
2.			
3.			

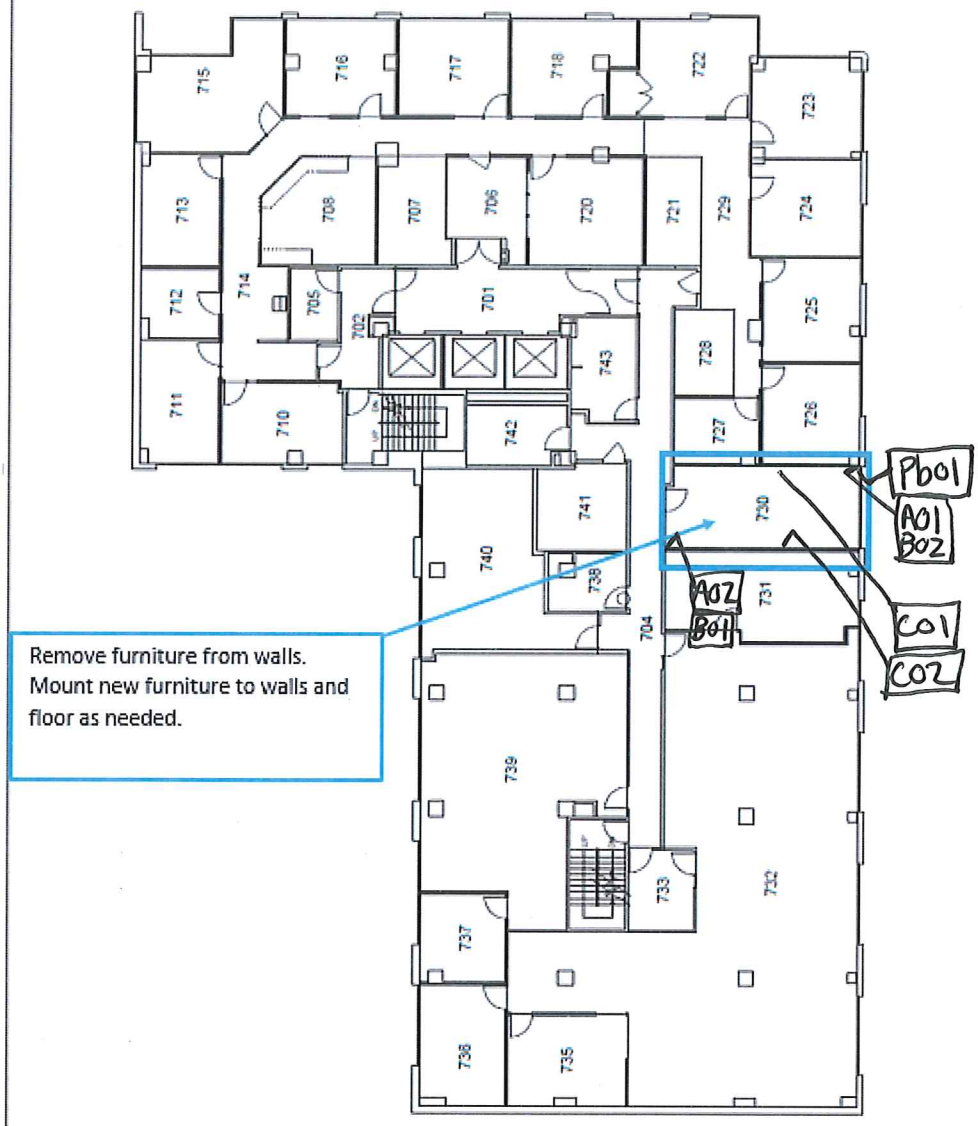
PAGE 1 OF 1

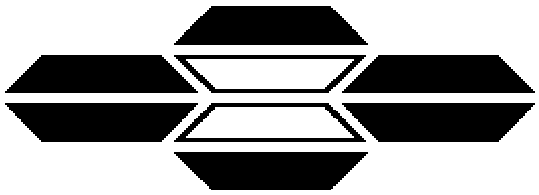
NT - 10/24/18 - 8:00 AM

PB

FLOOR PLAN OF LOCATION TO BE TESTED/ABATED

Bldg #-Drawing Name-Floor:	04430-Lakeside-7th Flr	USF:	9,882
Building Name:	Lakeside Plaza	Print Date:	12/20/2007
Street Address:	1401 Lakeside Drive	City:	Oakland





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

ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866

NVLAP Lab Code: 101891-0
Berkeley, CA

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.

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

Contact: Steff Steiner

Address: Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

Samples Indicated: 9
Reg. Samples Analyzed: 9
Split Layers Analyzed: 9

Report No. **363482**
Date Submitted: Apr-12-19
Date Reported: Apr-17-19

Job Site / No. 1401 Lakeside - Room #629 Art. Comm.
R1197409

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

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

Analyst Jo Ann Hewitt

ASBESTOS TEM LABORATORIES, INC.
www.asbestostemlabs.com

600 Bancroft Way, Ste. A, Berkeley CA 94710 (510) 704-8930
With Offices in Reno, NV (775) 359-3377

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

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

Contact: Steff Steiner

Address: Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

Samples Indicated: 9
Reg. Samples Analyzed: 9
Split Layers Analyzed: 9

Report No. **363482**
Date Submitted: Apr-12-19
Date Reported: Apr-17-19

Job Site / No. 1401 Lakeside - Room #629 Art. Comm.
R1197409

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

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

Analyst Jo Ann Hewitt

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600 Bancroft Way, Ste. A, Berkeley CA 94710 (510) 704-8930
With Offices in Reno, NV (775) 359-3377

363402

Terracon

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

☒ PM – S. Steiner sjsteiner@terracon.com	☐ PM – K. Schroeter kmschroeter@terracon.com	☐ PM – K. Pilgrim kmpilgrim@terracon.com
☐ PM- M. Benefield msbenefield@terracon.com	☐ PM – T. Kattchee tskattchee@terracon.com	☐ PM – W. Frieszell wmfrieszell@terracon.com
☐ PM- D. Block David.block@terracon.com	☐ denise.wallen@terracon.com Engineering Assistant	☐ eric.dyer@terracon.com Engineering Assistant

ACM BULK SAMPLE DATA SHEET

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

Project Name/ Address/ Building No. 1401 LAKESIDE - ROOM #629 ART. COMM.

Project# R1197409 **Sampled By:** M. REED **Sampling Date:** 4-12-19

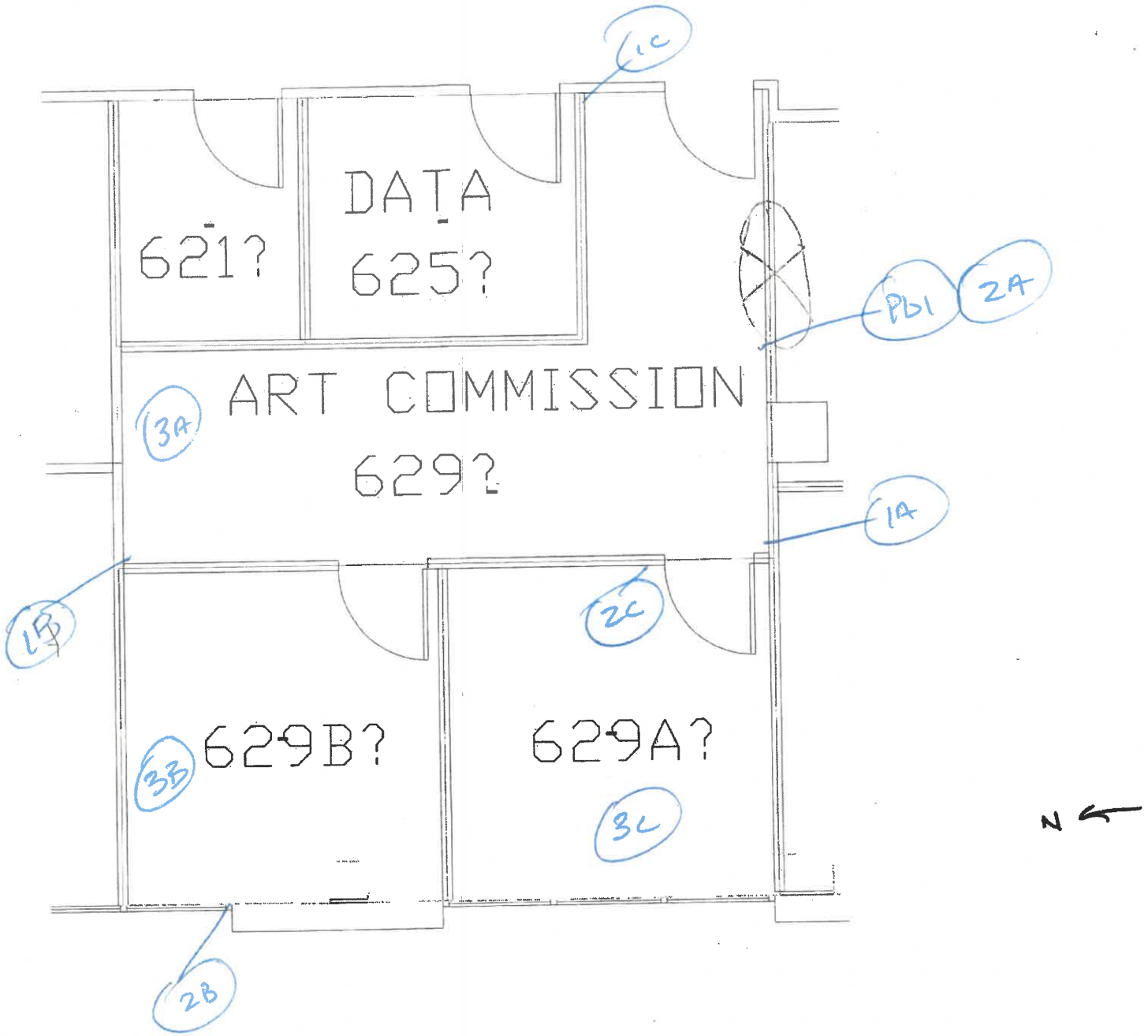
Sample(s) sent to: ☐ MAL ☐ ASB TEM ☐ EMLAB ☒ Other ASBESTOS TEM

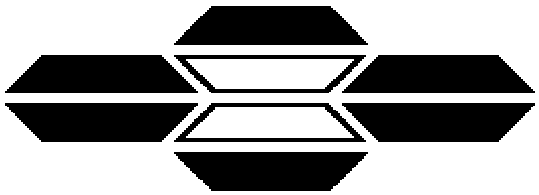
TAT ☐ Rush ☐ 24HRS ☑ 3 DAY

HM# 01	Material Description DRYWALL WITH JOINT COMP.	
Sample ID	**Sample Location & Material Location**	**Quantity:**
1A	SOUTH WALL # 629	
1B	NORTH WALL # 629	
1C	EAST WALL # 629	
HM# 02	**Material Description:** 4" BLACK BASE COVE GLUE (YELLOW)	
Sample ID	**Sample Location & Material Location**	**Quantity:**
2A	SOUTH WALL - # 629	
2B	NORTH WALL - ↓	
2C	EAST WALL - ↓	
HM# 03	**Material Description:** CARPET GLUE ON WHT. VFT W/ YELLOW MASTIC	
Sample ID	**Sample Location & Material Location**	**Quantity:**
3A	ROOM - # 629	
3B	↓ - # 629 B	
3C	↓ - # 629 A	
HM#	**Material Description:**	
Sample ID	**Sample Location & Material Location**	**Quantity:**
HM#	**Material Description:**	
Sample ID	**Sample Location & Material Location**	**Quantity:**

Relinquished By:	M. REED	**Signature:**	M. Reed	**Date/Time:**	4-12-19
Received By:	MTD	**Signature:**	MTD	**Date/ Time:**	
Relinquished By:		**Signature:**		**Date/Time:**	APR 12 '19 5:17PM
Received By:		**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

ASBESTOS TEM LABORATORIES, INC

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: LABORATORY JOB # 363645
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.

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

Contact: Steff Steiner

Address: Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

Samples Indicated: 1
Reg. Samples Analyzed: 1
Split Layers Analyzed: 1

Report No. **363645**
Date Submitted: Apr-24-19
Date Reported: Apr-25-19

Job Site / No. Alameda County - 1401 Lakeside Dr. Rm 623
R1197460

SAMPLE ID	ASBESTOS %	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
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	

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

Analyst Jo Ann Hewette

ASBESTOS TEM LABORATORIES, INC.
www.asbestostemlabs.com

600 Bancroft Way, Ste. A, Berkeley CA 94710 (510) 704-8930
With Offices in Reno, NV (775) 359-3377

363645

Terracon

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

☒ PM – S. Steiner spsteiner@terracon.com	☐ PM – K. Schroeter kmschroeter@terracon.com	☐ PM – K. Pilgrim kmpilgrim@terracon.com
☐ PM- M. Benefield msbenefield@terracon.com	☐ PM – T. Kattchee takattchee@terracon.com	☐ PM – W. Frieszell wmfrieszell@terracon.com
☐ PM- D. Block David.block@terracon.com	☐ denise.wallen@terracon.com Engineering Assistant	☐ eric.dyer@terracon.com Engineering Assistant

ACM BULK SAMPLE DATA SHEET

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

Project Name/ Address/ Building No. Alameda County - 1401 Lakeside Dr. Rm 623

Project# R1197460 **Sampled By:** Steiner **Sampling Date:** 4/24/19

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

TAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM# 01	Material Description: Drywall w/ Joint Compound	
Sample ID	Sample Location & Material Location	Quantity:
1401-01A	Rm 623 - North Wall @ East Side	

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

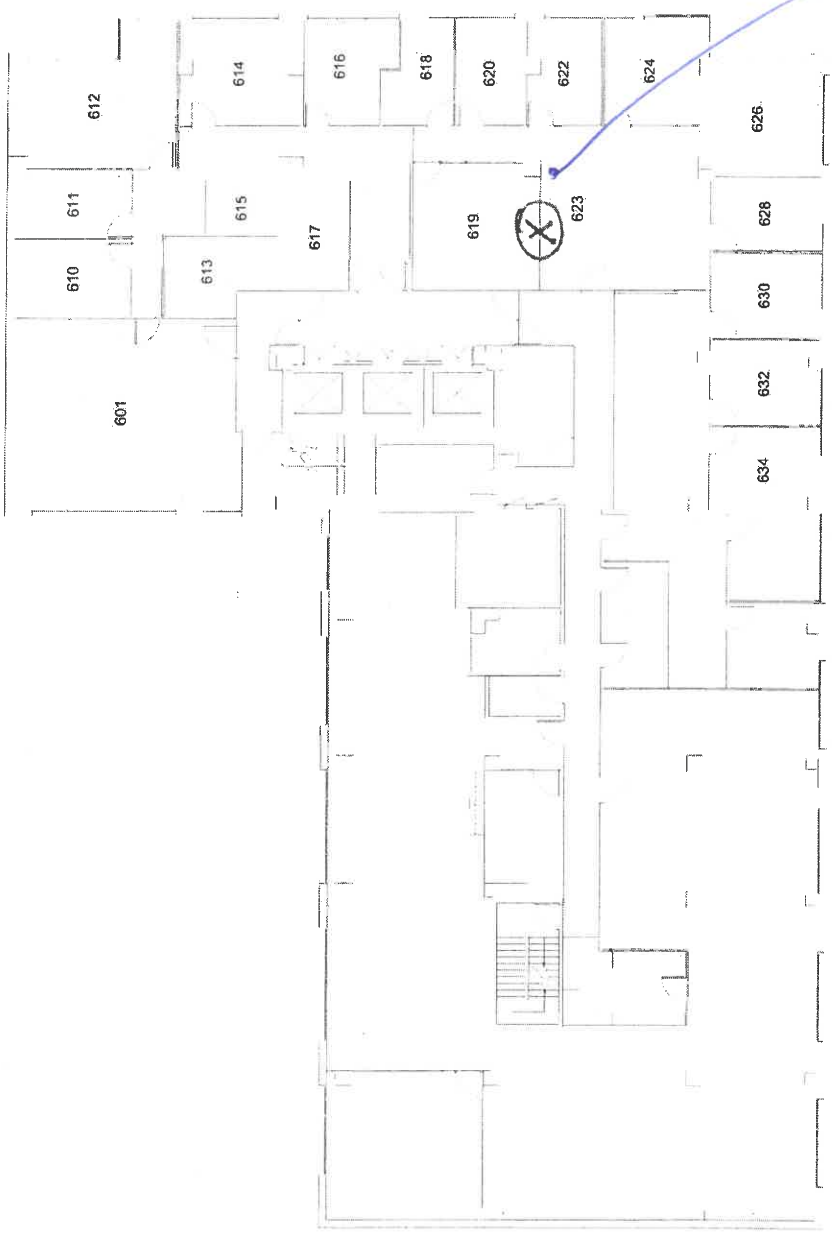
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

Relinquished By:	Steff Steiner	**Signature:**		**Date/Time:**	4/24/19
Received By:		**Signature:**		**Date/ Time:**	APR 24 '19 3:50PM
Relinquished By:		**Signature:**		**Date/Time:**	
Received By:		**Signature:**		**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:**	Oakland



MICRO ANALYTICAL LABORATORIES, INC.

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	6
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 #: 04430-220525-1A Micro #: 291880-01 Analyst: SS BK TILE GROUT - TAN - 1ST FLOOR - LOBBY FLOOR	ND	NFM: GLASS FRAGMENTS, BINDER.
Client #: 04430-220525-1B Micro #: 291880-02 Analyst: SS TILE GROUT - TAN - 1ST FLOOR - LOBBY FLOOR	ND	NFM: GLASS FRAGMENTS, BINDER.
Client #: 04430-220525-2A Micro #: 291880-03 Analyst: SS STONE TILE - VARIONS - OFF-WHITE 1ST FLOOR - LOBBY FLOOR	ND	NFM: GLASS FRAGMENTS, BINDER.
Client #: 04430-220525-2B Micro #: 291880-04 Analyst: SS STONE TILE - VARIONS - OFF-WHITE 1ST FLOOR - LOBBY FLOOR	ND	NFM: GLASS FRAGMENTS, BINDER.
Client #: 04430-220525-3A Micro #: 291880-05 Analyst: SS SETTING COMPOUND - GRAY 1ST FLOOR - LOBBY FLOOR	ND	2 % CELLULOSE NFM: ROCK FRAGMENTS, CARBONATE, BINDER

Technical Supervisor: Baojia Ke, Ph.D. 5/25/2022 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 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 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 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, samples shall be marked with letters and analyzed separately. Layers within a sample 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. The notation ND (or "NONE DETECTED") indicates a result of "NO ASBESTOS DETECTED" in a homogeneous sample, or in a layer of a heterogeneous sample. Composite asbestos percentages from multiple layers 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): all results have been determined to be within acceptance limits prior to reporting. Reanalyzed samples are denoted by two sets of analyst initials. 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 except in full, without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed as received. NFM = Non-fibrous materials.

MICRO ANALYTICAL LABORATORIES, INC.

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	6
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 #: 04430-220525-3B Micro #: 291880-06 Analyst: SS **SETTING COMPOUND - GRAY** **1ST FLOOR - LOBBY FLOOR**	**ND**	2 % CELLULOSE 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 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 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 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, samples shall be marked with letters and analyzed separately. Layers within a sample 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. The notation ND (or "NONE DETECTED") indicates a result of "NO ASBESTOS DETECTED" in a homogeneous sample, or in a layer of a heterogeneous sample. Composite asbestos percentages from multiple layers 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): all results have been determined to be within acceptance limits prior to reporting. Reanalyzed samples are denoted by two sets of analyst initials. 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 except in full, without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed as received. NFM = Non-fibrous materials.

BULK SAMPLE TRACKING FORM 291EEO

COUNTY OF ALAMEDA, GSA-CPED
1401 LAKESIDE DRIVE, STE. 800
OAKLAND, CA 94612

Contact: Matthew Reed
Analysis Type: PLM
TAT: ___hr 12hr 24hr 48hr >48hr

FACILITY NAME	Lakeside Plaza	BLDG. NO.	04430
FACILITY ADDRESS	1401 Lakeside Dr., Oakland		
SAMPLE TAKEN BY	Matthew Reed	DATE	5/25/22

SAMPLE NUMBER (Bldg #.- yymmdd - #)*	04430-220525-1A			MATERIAL TYPE.	Tile Grout		
1 MATERIAL DESC.	SIZE	—		COLOR	tan		
SAMPLE LOCATION	FLOOR	1st Floor	ROOM NO.	Lobby	AREA	Floor	

SAMPLE NUMBER	"	-1B		MATERIAL TYPE.	Tile Grout		
2 MATERIAL DESC.	SIZE	—		COLOR	tan		
SAMPLE LOCATION	FLOOR	1st Floor	ROOM NO.	Lobby	AREA	Floor	

SAMPLE NUMBER	"	-2A		MATERIAL TYPE.	Stone Tile		
3 MATERIAL DESC.	SIZE	— Various		COLOR	off-White		
SAMPLE LOCATION	FLOOR	1st Floor	ROOM NO.	Lobby	AREA	Floor	

RELINQUISHED BY	Matt Reed	DATE/TIME	5/25/22 10:12A
RECEIVED BY	P.T	DATE/TIME	5/25/22 10:44

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.

291880

BULK SAMPLE TRACKING FORM

COUNTY OF ALAMEDA, GSA-CPED
1401 LAKESIDE DRIVE, STE. 800
OAKLAND, CA 94612

Contact: Matthew Reed
Analysis Type: PLM
TAT: ___hr 12hr 24hr (48hr) >48hr

FACILITY NAME:	Lakeside Plaza	BLDG. NO.:	04430
FACILITY ADDRESS:	1401 Lakeside Dr., Oakland		
SAMPLE TAKEN BY:	Matthew Reed	DATE:	5/25/22

4

SAMPLE NUMBER* (Bldg # - yymmdd - #)*	04430-220525-2B			MATERIAL TYPE:	Stone Tile
MATERIAL DESC.	SIZE:	– Various	COLOR:	off-White	
SAMPLE LOCATION	FLOOR:	1st Floor	ROOM NO.:	Lobby	AREA: Floor

5

SAMPLE NUMBER	"	-3A		MATERIAL TYPE:	Setting Compound
MATERIAL DESC.	SIZE:	–	COLOR:	Gray	
SAMPLE LOCATION	FLOOR:	1st Floor	ROOM NO.:	Lobby	AREA: Floor

6

SAMPLE NUMBER		-3B		MATERIAL TYPE:	Setting Compound
MATERIAL DESC.	SIZE:	–	COLOR:	Gray	
SAMPLE LOCATION	FLOOR:	1st Floor	ROOM NO.:	Lobby	AREA: Floor

RELINQUISHED BY:	[signature]	DATE/TIME:	5/25/22 10:12A
RECEIVED BY:	P.T	DATE/TIME:	5/25/22 10:44

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

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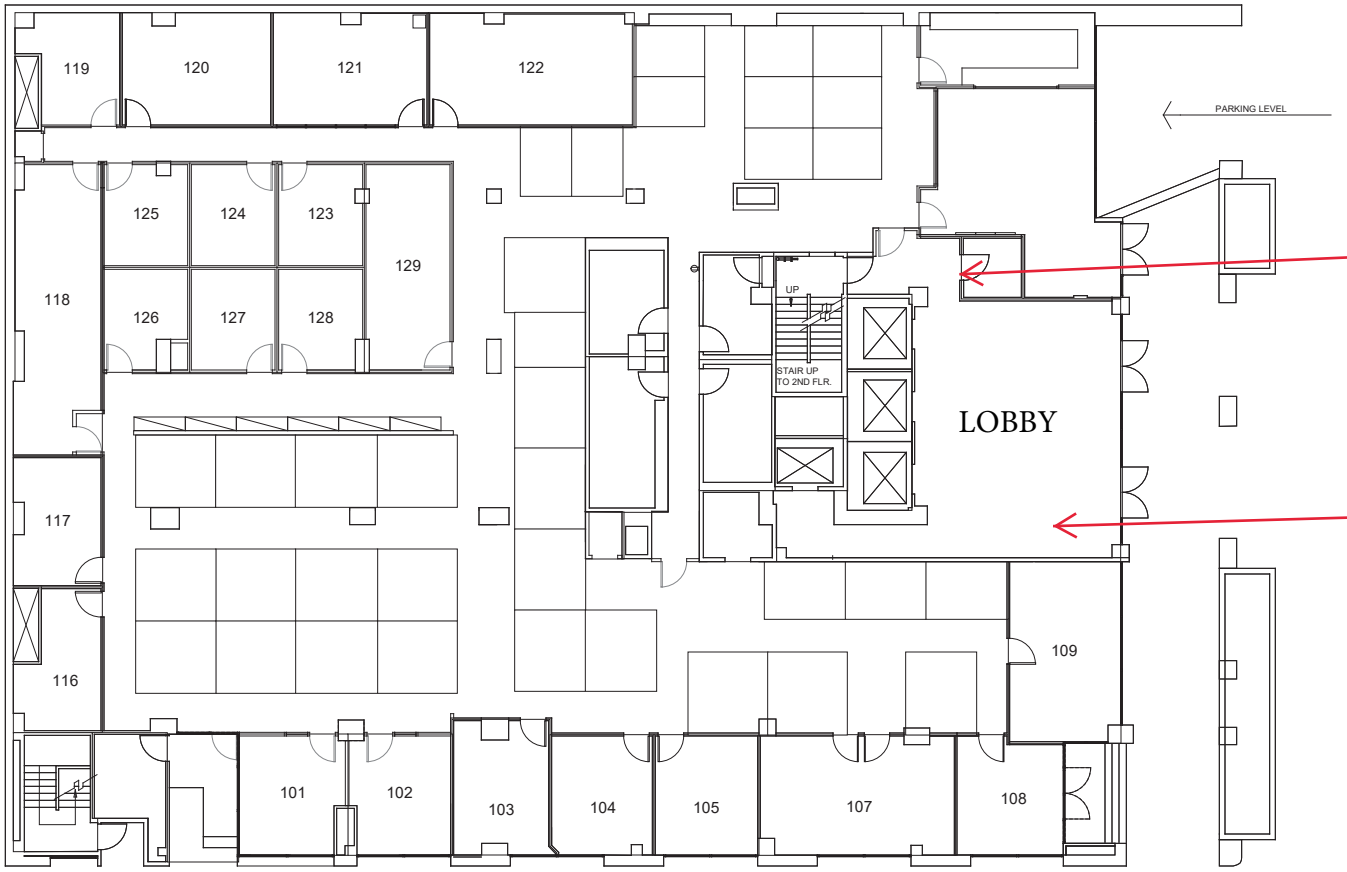
* - Sample numbers are generated by Building Number followed by the date, year, month, day, and then sample number. For example, a sample collected from Building 1901 on April 30, 1999, would be numbered 1901-990430-01. Please adhere to this numbering method. For samples other than asbestos, insert a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



Bldg #-Drawing Name-Floor:	04430-Lakeside-1st Flr
Building Name:	Lakeside Plaza
Street Address:	1401 Lakeside Drive
City:	Oakland
Print Date:	12/20/2007
USF:	10,699

04430-220525-2A, 2B, 3B

04430-220525-1A, 2A, 3A

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. The County reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances. If the contractor maintains broader coverage and/or higher limits than the minimums shown below, the County requires and shall be entitled to the broader coverage and/or the higher limits maintained by the Contractor. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the County.

	TYPE OF INSURANCE COVERAGES	MINIMUM LIMITS
A	**Commercial General Liability** Premises Liability; Products and Completed Operations; Contractual Liability; Personal Injury and Advertising Liability	$5,000,000 per occurrence (CSL) Bodily Injury and Property Damage
B	**Commercial or Business Automobile Liability** All owned vehicles, hired or leased vehicles, non-owned, borrowed and permissive uses.	$5,000,000 per occurrence (CSL) Any Auto Bodily Injury and Property Damage
C	**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	**Builder's Risk (Course of Construction) insurance utilizing an "All Risk" (Special Perils) coverage form or Installation Floater as applicable**	Limits equal to the completed value of the project and no coinsurance penalty provisions.

E

Endorsements and Conditions:

1. **ADDITIONAL INSURED:** County of Alameda, its Board of Supervisors, the individual members thereof, and all County officers, agents, employees, volunteers, and representatives are to be covered as additional insureds on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts, or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Contractor's insurance (at least as broad as ISO Form CG 20 10 11 85 or if not available, through the addition of **both** CG 20 10, CG 20 26, CG 20 33, or CG 20 38; **and** CG 20 37 if a later edition is used). Auto policy shall contain or be endorsed to contain additional insured coverage for the County.
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 and evidence of insurance must be provided during the entire term of the Agreement and for at least five (5) 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. If coverage is cancelled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the Contractor must purchase "extended reporting" coverage for a minimum of five (5) years after completion of work.
3. **REDUCTION OR LIMIT OF OBLIGATION:** All insurance policies, including excess and umbrella insurance policies, shall be primary and non-contributory coverage at least as broad as ISO CG 20 10 04 13 as respects the County, its officers, officials, employees, or volunteers. Any insurance or self-insurance maintained by the County, its officers, officials, employees, or volunteers shall be excess of the Contractor' insurance and shall not contribute with it. 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 an A.M. Best Rating of no less than A: VII or equivalent, shall be admitted to the State of California unless otherwise acceptable 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. Self-insured retentions must be declared and approved. Any deductible or self-insured retention amount or other similar obligation under the policies shall be the sole responsibility of the Contractor. The policy language shall provide or be endorsed to provide, that the self –insured retention may be satisfied by either the named insured or County.
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.
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:** Each insurance policy required above shall provide that coverage shall not be cancelled, except with notice of cancellation provided to the County in accordance with policy terms and conditions.
8. **CERTIFICATE OF INSURANCE**: Before commencing operations under this Agreement, Contractor shall provide Certificate(s) of insurance and applicable insurance endorsements as set forth in the provisions of this Agreement and this Exhibit C, in forms satisfactory to County, evidencing that all required insurance coverage is in effect. However, failure to obtain the required documents prior to the work beginning shall not waive the Contactor's obligation to provide them. The County reserves the right to require the Contractor to provide complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Exhibit D – 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

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

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.

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:
         i. 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.
         i. 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
      b. Please Proceed
      c. Lane Closed

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.

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