



May 17, 2018

Mr. Curtis K. Miyamura
CKM ARCHITECTS, LLC
98-829 Leialii Street
Aiea, Hawaii 96701

Subject: Hazardous Material Assessment for Hawaii Health Systems Corporation,
Young Building First Floor Laundry and Maintenance Renovation Project,
Located at Leahi Hospital, 3675 Kilauea Avenue, Honolulu, Oahu, Hawaii

Dear Mr. Miyamura:

The Benzing Group LLC, (TBG), conducted a hazardous material assessment survey for the Hawaii Health Systems Corporation Young Building first floor laundry and maintenance renovation project located at Leahi Hospital, 3675 Kilauea Avenue, Honolulu, Oahu, Hawaii. The purpose of the assessment was to identify asbestos-containing materials (ACM) and lead-based paint (LBP) that would be impacted during renovation of the building.

BULK SAMPLING AND OBSERVATIONS

The Young Building is a six story structure with a basement and is comprised primarily of concrete exterior walls and interior hard plaster on wire lathe walls and ceilings. Work for this project is limited to the first floor of the building which has been vacant for approximately 10 years.

On April 23, 24 and 26, 2016, Mr. Raymond Benzing, State of Hawaii certified Asbestos Building Inspector and Lead Risk Assessor with TBG, conducted the hazardous material assessment. The assessment identified 26 homogeneous types of suspect ACM that may be disturbed as part of this project for asbestos analysis. Three samples were collected of each type to comply with State regulatory requirements.

The assessment also included the collection of 19 paint samples from the first floor of the building of predominantly painted building materials for lead analysis.

The suspect ACM and paint samples were shipped to NVL Labs, a National Voluntary Laboratory Accreditation Program (NVLAP) and American Industrial Hygiene Association (AIHA) Environmental Lead Laboratory Accreditation Program (ELLAP) laboratory located in Seattle, Washington for analysis. ACM is defined as a material that

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Project No.: TBG-180010



contains 1 percent or greater asbestos. LBP is defined as a paint with 0.5 percent (%) lead by weight or greater.

ASBESTOS BULK SAMPLE ANALYTICAL RESULTS

Samples were sent to the laboratory for analysis using polarized light microscopy (PLM) Environmental Protection Agency (EPA) Method 600. The following Table 1 summarizes the sampling analytical results.

Table 1
Summary of Asbestos Analytical Results
Leahi Hospital Young Building - First Floor

Sample Number	Homogeneous Area	Sample Location	Asbestos Content and type
LHYB-A1	Hard plaster walls and ceilings with thin plaster top coat	Room 6S - east wall	ND
LHYB-A2		Men's restroom above sink	ND
LHYB-A3		Existing storage east wall	ND
LHYB-A4	Grey ceramic tile cove base	Men's restroom by door	ND
LHYB-A5		Women's restroom by door	ND
LHYB-A6		Men's restroom by sink	ND
LHYB-A7	Black 9-inch by 9-inch floor tile and associated black mastic	Room 16M - east side	Chrysotile 3% - Tile Chrysotile 2% - mastic
LHYB-A8		Room 16N - west side	
LHYB-A9		Room opposite existing pharmacy	
LHYB-A10	2-feet by 4-feet white drop ceiling panels in hallway	Janitor's closet doorway	ND
LHYB-A11		Outside Room 16L	ND
LHYB-A12		Outside existing lounge	ND
LHYB-A13	2-feet by 4-feet brown drop ceiling panels in hallway	Janitor's closet doorway	ND
LHYB-A14		Outside Room 16M	ND
LHYB-A15		Outside existing lounge	ND
LHYB-A16	12-inch by 12-inch beige with grey patterned floor tile and associated black mastic throughout hallway	Hallway outside men's restroom	ND
LHYB-A17		Hallway outside Room 16L	ND
LHYB-A18		Hallway outside existing pharmacy	ND

Table 1 (continued)

Sample Number	Homogeneous Area	Sample Location	Asbestos Content and type
LHYB-A19	Tan 12-inch by 12-inch floor tile with associated mastic	Room 19	ND
LHYB-A20		Room 16S	ND
LHYB-A21		Existing Pharmacy	ND
LHYB-A22	Door caulking	Men's restroom at hallway	ND
LHYB-A23		Existing pharmacy	ND
LHYB-A24		Outside Room 21	ND
LHYB-A25	Metal cove base caulking	Room 25	ND
LHYB-A26		Room 28	ND
LHYB-A27		Existing pharmacy	ND
LHYB-A28	Black sink undercoating	Room 25	Chrysotile 5%-6%
LHYB-A29			
LHYB-A30			
LHYB-A31	4-inch by 4-inch blue ceramic tile grout/glazing	Room 30	ND
LHYB-A32		Room 27	ND
LHYB-A33		Existing storage	ND
LHYB-A34	Sink under-lining - silver cardboard wrap	Room 30	Chrysotile 59-65%
LHYB-A35		Room 27	
LHYB-A36		Existing storage	
LHYB-A37	4-inch by 4-inch yellow ceramic tile grout and glazing	Room 27	ND
LHYB-A38			ND
LHYB-A39			ND
LHYB-A40	Gypsum wallboard and associated mud	Hallway outside existing storage (west side)	Chrysotile 2%
LHYB-A41		Existing storage - middle room	
LHYB-A42		Existing office reception -	
LHYB-A43	1-foot by 1-foot fiberglass ceiling tiles with brown adhesive	Existing storage - center room	Chrysotile 2%
LHYB-A44		Existing storage - east room	ND
LHYB-A45		Existing doctor's office	ND
LHYB-A46	6-inch brown vinyl cove base and mastic on gypsum wallboard	Existing storage - west room	Chrysotile 2%
LHYB-A47		Existing storage - center room	
LHYB-A48		Existing office reception area	

Table 1 (continued)

Sample Number	Homogeneous Area	Sample Location	Asbestos Content and type
LHYB-A49	1-foot by 1-foot acoustical ceiling tiles with tan adhesive	Existing storage	ND
LHYB-A50		Existing lounge	
LHYB-A51		Existing work area	
LHYB-A52	Lab black counter tops	Existing storage - center room	ND
LHYB-A53		Existing storage - east room	
LHYB-A54		Existing lounge	
LHYB-A55	Window glazing	Existing office	ND
LHYB-A56		Existing office reception	
LHYB-A57		Existing pharmacology - eastern room	
LHYB-A58	Grey sink undercoating	Room 16S/16R	ND
LHYB-A59			
LHYB-A60			
LHYB-A61	White sink undercoating	Room 16S/16R	ND
LHYB-A62			
LHYB-A63			
LHYB-A64	12-inch by 12-inch gray floor tile and black mastic	Existing storage	ND
LHYB-A65		Existing lounge - office	
LHYB-A66		Existing work area - office	
LHYB-A67	Black roofing felt	Above existing work area - office	ND
LHYB-A68		Above existing lounge - office	
LHYB-A69		Above existing lanai	
LHYB-A70	Black roof mastic along seams	Above existing work area - office	ND
LHYB-A71		Above existing lounge - office	
LHYB-A72		Above existing lanai	
LHYB-A73	Brown sheet flooring under carpeting and associated mastic	Far west office reception by door	ND
LHYB-A74		Far west office reception by wall	
LHYB-A75		Supervisors office	
LHYB-A76	Window glazing	Existing Lanai - west window	ND
LHYB-A77		Existing Lanai - center window	
LHYB-A78		Existing Lanai - east window	

ND: None Detected

Bold: Contains asbestos above the regulatory level of 1 percent

Based on laboratory analysis, asbestos was identified above the regulatory level of 1% in the following building materials sampled on the first floor of the Young Building:

- Approximately 1,800 square feet of black 9-inch by 9-inch floor tiles and associated black mastic located in existing pharmacology rooms, existing doctor's office and existing storage rooms (photo 1)
- One black sink undercoating in existing lab (Room 25-photo 2)
- Four sink underlinings (silver cardboard wrap) in Room 30, Room 27 and existing storage (two sinks - Photos 3 and 4).
- Approximately 580 square feet of gypsum wallboard and associated mud located in existing storage walls, existing corridor and existing office reception (Photo 5)
- Approximately 1,800 square feet of 1-foot by 1-foot fiberglass ceiling tile adhesive located in existing doctor's office (Room 27), existing storage rooms, existing lounge and existing work area (Photo 6)
- Approximately 50 linear feet of 6-inch brown vinyl cove base with associated brown mastic on gypsum wallboard in existing storage room and existing office reception (Photo 7).

LEAD ANALYTICAL RESULTS FOR PAINT

The paint samples were analyzed for total lead using flame atomic absorption (FAA) spectrophotometry using EPA Method 7000B. The following Table 2 summarizes the paint analytical results.

Table 2
Summary of Lead Analytical Results
Leahi Hospital Young Building - First Floor

Sample Number	Color	Description/Location	Substrate	% lead by weight
LHYB-L1	Tan	Walls throughout	Hard plaster	0.13
LHYB-L2	Gray	Storage closet walls	Hard plaster	0.34
LHYB-L3	Blue	Walls throughout	Hard plaster	0.14
LHYB-L4	Tan	Walls throughout	Hard plaster	0.24
LHYB-L5	Beige	Window frames throughout	Wood	0.12
LHYB-L6	Beige	Base boards throughout	Metal	0.18
LHYB-L7	Beige	Walls throughout	Hard plaster	<0.0048
LHYB-L8	Beige	Ceilings throughout	Hard plaster	0.090

Table 2 (continued)

Sample Number	Color	Description/Location	Substrate	% lead by weight
LHYB-L9	Beige	Built-in furniture	Wood	0.018
LHYB-L10	Beige	Doors throughout	Wood	0.0081
LHYB-L11	Beige	Door frames	Metal	0.027
LHYB-L12	Tan	Closet systems	Wood	0.14
LHYB-L13	Green	Walls	Hard plaster	0.23
LHYB-L14	White	Walls throughout	Hard plaster	0.024
LHYB-L15	Yellow	Cabinets	Wood	0.16
LHYB-L16	Light Yellow	Walls	Hard plaster	0.21
LHYB-L17	Brown	Walls	Hard plaster	<0.0055
LHYB-L18	Brown	Window frames - Existing lanai (future carpentry shop)	Wood	3.5
LHYB-L19	Beige	Exterior wall - Existing lanai	Hard plaster	0.049

Bold: Indicates Lead-Based Paint

?: percent

The laboratory reported lead at 3.5% lead by weight in the brown paint on seven wood window frames and sills located in the existing lanai area (future carpentry shop). This paint is above 0.5% lead by weight and is classified as LBP (Photo 8). Lead was reported in 16 paint samples at concentrations ranging from 0.018 to 0.34 % lead by weight. These paints are classified as lead-containing paint (LCP). Two paint samples reported lead concentrations below the method detection limit and are not considered to contain lead.

SUMMARY AND RECOMENDATIONS

Asbestos was identified in concentration greater than 1% in the following materials:

- Black 9-inch by 9-inch floor tiles and associated black mastic located in existing pharmacology rooms, existing doctor's office and storage rooms.
- Black sink undercoating in existing lab (Room 25)
- Sink underlining (silver cardboard wrap) in Room 30, Room 27 and existing storage rooms (two sinks).
- Gypsum wallboard and associated mud located in existing storage walls, existing corridor and existing office reception.

- Adhesive associated with 1-foot by 1-foot fiberglass ceiling tiles located in existing doctor's office (Room 27), existing storage rooms, existing lounge and existing work area.
- Drywall mud associated with the brown 6-inch vinyl cove base located in existing storage room and existing office reception.

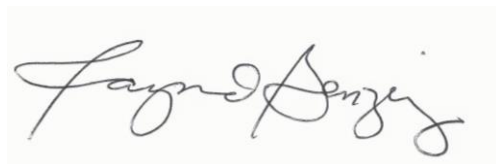
The laboratory reported lead above 0.5% lead by weight in the brown paint on the seven wooden windows and sills in the existing lanai area (future carpentry shop).

Asbestos-containing materials and lead-based painted building components shall be handled, removed, packaged and disposed of in accordance with State and Federal regulatory requirements. In addition, the disturbance of these materials shall be performed by trained and accredited Contractors under the supervision of a third party industrial hygiene professional.

It is recommended that this report be provided to the Contractor performing the renovation work so that they may comply with the requirements of the Lead in Construction Standard for their employees who come in contact with lead.

Suspended fluorescent light fixtures are located throughout the first floor. Many of these fixtures appear to be original from building construction. These older fixtures may contain light ballasts with polychlorinated biphenyls (PCBS). The Contractor shall inspect each light fixture ballast during removal. Light ballasts that are not labelled as "non-PCB" are assumed to contain PCBs. Light tubes and ballasts shall be packaged and disposed of in accordance with applicable Federal and State regulations.

This report was prepared by:



Raymond Benzing, M.P.H.
State of Hawaii Asbestos Inspector
HIASB-0350 (expires 02/10/2018)
State of Hawaii Lead Risk Assessor
#PB-0175 (expires 4/22/2020)

Attachment 1: Asbestos Laboratory Report
Attachment 2: Lead Paint Laboratory Report
Attachment 3: Photographs

Attachment 1

Asbestos Laboratory Report

May 9, 2018

Ray Benzing
The Benzing Group, LLC
329 Auwinala Road
Kailua, HI 96734



Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1808512.00

Client Project: TBG-180010
Location: Leahi Hospital Young Building First Floor

Dear Mr. Benzing,

Enclosed please find test results for the 15 sample(s) submitted to our laboratory for analysis on 5/4/2018.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read "Nick Ly".

Nick Ly, Technical Director



Lab Code: 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808512.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Lab ID: 18044563 Client Sample #: LHYB-A1

Location: Leahi Hospital Young Building First Floor

Layer 1 of 3 Description: White compacted powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %
Calcareous binder, Fine particles	None Detected ND

Asbestos Type: %
None Detected ND

Layer 2 of 3 Description: White brittle skim coat material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %
Binder/Filler	None Detected ND

Asbestos Type: %
None Detected ND

Layer 3 of 3 Description: Beige sandy/brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %
Sand, Binder/Filler	Cellulose 3%

Asbestos Type: %
None Detected ND

Lab ID: 18044564 Client Sample #: LHYB-A2

Location: Leahi Hospital Young Building First Floor

Layer 1 of 2 Description: White brittle skim coat material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %
Binder/Filler	None Detected ND

Asbestos Type: %
None Detected ND

Layer 2 of 2 Description: Beige sandy/brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %
Sand, Binder/Filler	Cellulose 2%

Asbestos Type: %
None Detected ND

Lab ID: 18044565 Client Sample #: LHYB-A3

Location: Leahi Hospital Young Building First Floor

Layer 1 of 2 Description: Gray sandy/brittle material with metal

Non-Fibrous Materials:	Other Fibrous Materials: %
Binder/Filler, Metal, Sand	None Detected ND

Asbestos Type: %
None Detected ND

Sampled by: Client

Analyzed by: Lauren Wetzel

Reviewed by: Nick Ly

Date: 05/08/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808512.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 2 of 2	Description: Beige sandy/brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Sand, Binder/Filler	Cellulose 2%		None Detected ND

Lab ID: 18044566 Client Sample #: LHYB-A4

Location: Leahi Hospital Young Building First Floor

Layer 1 of 3	Description: Gray ceramic tile			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Ceramic/Binder	None Detected ND		None Detected ND

Layer 2 of 3	Description: Black brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler	None Detected ND		None Detected ND

Layer 3 of 3	Description: Beige sandy/brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Sand, Binder/Filler	None Detected ND		None Detected ND

Lab ID: 18044567 Client Sample #: LHYB-A5

Location: Leahi Hospital Young Building First Floor

Layer 1 of 3	Description: Gray ceramic tile			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Ceramic/Binder	None Detected ND		None Detected ND

Layer 2 of 3	Description: Black brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler	None Detected ND		None Detected ND

Layer 3 of 3	Description: Beige sandy/brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Sand, Binder/Filler	None Detected ND		None Detected ND

Sampled by: Client

Analyzed by: Lauren Wetzel

Reviewed by: Nick Ly

Date: 05/08/2018

Date: 05/09/2018



Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808512.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Lab ID: 18044568 Client Sample #: LHYB-A6

Location: Leahi Hospital Young Building First Floor

Layer 1 of 3	Description: Gray ceramic tile	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Ceramic/Binder	None Detected ND	
Layer 2 of 3	Description: Black brittle material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Binder/Filler	None Detected ND	
Layer 3 of 3	Description: Beige sandy/brittle material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Sand, Binder/Filler	None Detected ND	

Lab ID: 18044569 Client Sample #: LHYB-A7

Location: Leahi Hospital Young Building First Floor

Layer 1 of 2	Description: Black vinyl tile	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Vinyl/Binder, Mineral grains	None Detected ND	
Layer 2 of 2	Description: Black mastic	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Mastic/Binder	Cellulose 3%	

Lab ID: 18044570 Client Sample #: LHYB-A8

Location: Leahi Hospital Young Building First Floor

Layer 1 of 2	Description: Black vinyl tile	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Vinyl/Binder, Mineral grains	None Detected ND	

Sampled by: Client

Analyzed by: Lauren Wetzel

Reviewed by: Nick Ly

Date: 05/08/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808512.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 2 of 2	Description: Black mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Mastic/Binder	Cellulose 2%		Chrysotile 2%

Lab ID: 18044571 **Client Sample #: LHYB-A9**

Location: Leahi Hospital Young Building First Floor

Layer 1 of 2	Description: Black vinyl tile			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Vinyl/Binder, Mineral grains	None Detected ND		Chrysotile 3%

Layer 2 of 2	Description: Black mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Mastic/Binder	Cellulose 2%		Chrysotile 2%

Lab ID: 18044572 **Client Sample #: LHYB-A10**

Location: Leahi Hospital Young Building First Floor

Layer 1 of 1	Description: White compressed fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Styrofoam	Cellulose 23%		None Detected ND
		Glass fibers 20%		

Lab ID: 18044573 **Client Sample #: LHYB-A11**

Location: Leahi Hospital Young Building First Floor

Layer 1 of 1	Description: White compressed fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Styrofoam, Paint	Cellulose 28%		None Detected ND
		Glass fibers 22%		

Sampled by: Client

Analyzed by: Lauren Wetzel

Reviewed by: Nick Ly

Date: 05/08/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808512.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Lab ID: 18044574 Client Sample #: LHYB-A12

Location: Leahi Hospital Young Building First Floor

Layer 1 of 1 Description: White compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %
Binder/Filler, Styrofoam, Paint	Cellulose 25%
	Glass fibers 22%

Asbestos Type: %
None Detected ND

Lab ID: 18044575 Client Sample #: LHYB-A13

Location: Leahi Hospital Young Building First Floor

Layer 1 of 1 Description: Brown compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %
Binder/Filler, Paint	Cellulose 30%
	Glass fibers 20%

Asbestos Type: %
None Detected ND

Lab ID: 18044576 Client Sample #: LHYB-A14

Location: Leahi Hospital Young Building First Floor

Layer 1 of 1 Description: Brown compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %
Binder/Filler, Paint	Cellulose 29%
	Glass fibers 25%

Asbestos Type: %
None Detected ND

Lab ID: 18044577 Client Sample #: LHYB-A15

Location: Leahi Hospital Young Building First Floor

Layer 1 of 1 Description: Brown compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %
Binder/Filler, Paint	Cellulose 26%
	24%

Asbestos Type: %
None Detected ND

Sampled by: Client

Analyzed by: Lauren Wetzel

Reviewed by: Nick Ly

Date: 05/08/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Cell (808) 725-7814
NVL Batch Number 1808512.00
TAT 3 Days **AH** No
Rush TAT
Due Date 5/9/2018 **Time** 9:15 AM
Email raybenzing@yahoo.com
Fax

Project Name/Number: TBG-180010 **Project Location:** Leahi Hospital Young Building First Floor

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 15

Rush Samples

	Lab ID	Sample ID	Description	A/R
1	18044563	LHYB-A1		A
2	18044564	LHYB-A2		A
3	18044565	LHYB-A3		A
4	18044566	LHYB-A4		A
5	18044567	LHYB-A5		A
6	18044568	LHYB-A6		A
7	18044569	LHYB-A7		A
8	18044570	LHYB-A8		A
9	18044571	LHYB-A9		A
10	18044572	LHYB-A10		A
11	18044573	LHYB-A11		A
12	18044574	LHYB-A12		A
13	18044575	LHYB-A13		A
14	18044576	LHYB-A14		A
15	18044577	LHYB-A15		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	5/4/18	915
Analyzed by	Lauren Wetzel		NVL	5/8/18	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions:

Date: 5/4/2018

Time: 11:14 AM

Entered By: Emily Schubert



1586

1808512

ASBESTOS CHAIN OF CUSTODYTurn Around Time

☐ 2 Hour ☐ 4 Hour ☐ 24 Hours ☐ 2 Days
☒ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

The Benzing Group LLC
329 Auwinala Road, Kailua, Hawaii 96734
Telephone: (808) 725-7814 cell, (808) 261-7982 office
ray@thebenzinggroup.com
raybenzing@yahoo.com
Project Manager: Ray Benzing

Project Name/Number: Leahi Hospital Young Building/TBG-180010
Project Location: First floor

Analysis Requested:

☐ PCM Air (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II Modified)
☒ PLM (EPA 600/R-93-116) ☐ EPA 400 Points (600/R-93-116) ☐ EPA 1000Points (600/R-93-116)

Reporting Instructions:

Total Number of Samples: 15

	Sample ID	Homogeneous Area	Sample Location
1	LHYB-A1	Hard plaster walls/ceilings with thin plaster top coat	Rm 6S - east wall
2	LHYB-A2		Men's restroom above sink
3	LHYB-A3		Existing storage wall
4	LHYB-A4	Grey ceramic tile cove base	Men's restroom by door
5	LHYB-A5		Women's restroom by door
6	LHYB-A6		Men's restroom by sink
7	LHYB-A7	Black 9-inch by 9-inch floor tile and associated black mastic	Rm 16M - east side
8	LHYB-A8		Rm 16N - west side
9	LHYB-A9		Rm opposite existing pharmacy
10	LHYB-A10	2-feet by 4-feet white drop ceiling panels in hallway	Janitor's closet doorway
11	LHYB-A11		Outside Rm 16L
12	LHYB-A12		Outside existing lounge
13	LHYB-A13	2-feet by 4-feet brown drop ceiling panels in hallway	Janitor's closet doorway
14	LHYB-A14		Outside Rm 16M
15	LHYB-A15		Outside existing lounge

	Name	Signature	Date	Time
Sampled by	Ray Benzing		4/25/18	
Relinquished by	Ray Benzing		5/2/18	

RCVD by EMILYS

ADL 5-4-18 715 FEEB

May 9, 2018

Ray Benzing
The Benzing Group, LLC
329 Auwinala Road
Kailua, HI 96734



Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1808510.00

Client Project: Leahi Hospital Young Building TBG-180010
Location: First Floor

Dear Mr. Benzing,

Enclosed please find test results for the 15 sample(s) submitted to our laboratory for analysis on 5/4/2018.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read "Matt Macfarlane".

Matt Macfarlane, Asbestos Supervisor



Lab Code: 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: First Floor

Batch #: 1808510.00

Client Project #: Leahi Hospital Young Building TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116

& EPA/600/M4-82-020

Lab ID: 18044545 Client Sample #: LHYB-A16

Location: First Floor

Layer 1 of 2 Description: Beige vinyl tile

Non-Fibrous Materials:

Vinyl/Binder, Mineral grains

Other Fibrous Materials:%

None Detected ND

Asbestos Type: %

None Detected ND

Layer 2 of 2 Description: Black mastic

Non-Fibrous Materials:

Mastic/Binder

Other Fibrous Materials:%

Cellulose 3%

Asbestos Type: %

None Detected ND

Lab ID: 18044546 Client Sample #: LHYB-A17

Location: First Floor

Layer 1 of 2 Description: Beige vinyl tile

Non-Fibrous Materials:

Vinyl/Binder, Mineral grains

Other Fibrous Materials:%

None Detected ND

Asbestos Type: %

None Detected ND

Layer 2 of 2 Description: Black mastic

Non-Fibrous Materials:

Mastic/Binder

Other Fibrous Materials:%

Cellulose 3%

Asbestos Type: %

None Detected ND

Lab ID: 18044547 Client Sample #: LHYB-A18

Location: First Floor

Layer 1 of 2 Description: Beige vinyl tile

Non-Fibrous Materials:

Vinyl/Binder, Mineral grains

Other Fibrous Materials:%

None Detected ND

Asbestos Type: %

None Detected ND

Layer 2 of 2 Description: Black mastic

Non-Fibrous Materials:

Mastic/Binder

Other Fibrous Materials:%

Cellulose 3%

Asbestos Type: %

None Detected ND

Sampled by: Client

Analyzed by: Lauren Wetzel

Reviewed by: Matt Macfarlane

Date: 05/09/2018

Date: 05/09/2018


Matt Macfarlane, Asbestos Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Batch #: 1808510.00

Client Project #: Leahi Hospital Young Building TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116

& EPA/600/M4-82-020

Attention: Mr. Ray Benzing

Project Location: First Floor

Lab ID: 18044548 Client Sample #: LHYB-A19

Location: First Floor

Layer 1 of 4	Description: Tan vinyl tile	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Vinyl/Binder, Mineral grains	None Detected ND	
Layer 2 of 4	Description: Yellow mastic	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Mastic/Binder	Cellulose 2%	
Layer 3 of 4	Description: Beige vinyl tile	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Vinyl/Binder, Mineral grains	Cellulose 2%	
Layer 4 of 4	Description: Clear adhesive	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Adhesive/Binder	Cellulose 3%	

Lab ID: 18044549 Client Sample #: LHYB-A20

Location: First Floor

Layer 1 of 2	Description: Tan vinyl tile	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Vinyl/Binder, Mineral grains	None Detected ND	
Layer 2 of 2	Description: Yellow mastic	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Mastic/Binder	Cellulose 3%	

Lab ID: 18044550 Client Sample #: LHYB-A21

Location: First Floor

Sampled by: Client

Analyzed by: Lauren Wetzel

Reviewed by: Matt Macfarlane

Date: 05/09/2018

Date: 05/09/2018

Matt Macfarlane, Asbestos Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: First Floor

Batch #: 1808510.00

Client Project #: Leahi Hospital Young Building TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 1 of 2	Description: Tan vinyl tile	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Vinyl/Binder, Mineral grains	None Detected ND	None Detected ND
Layer 2 of 2	Description: Yellow mastic on black paint	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Mastic/Binder, Paint	Cellulose 4%	None Detected ND

Lab ID: 18044551 Client Sample #: LHYB-A22

Location: First Floor

Layer 1 of 1	Description: White soft material with paint	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler, Paint	None Detected ND	None Detected ND

Lab ID: 18044552 Client Sample #: LHYB-A23

Location: First Floor

Layer 1 of 2	Description: White soft material with paint	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler, Paint	None Detected ND	None Detected ND
Layer 2 of 2	Description: White powdery material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler	None Detected ND	None Detected ND

Lab ID: 18044553 Client Sample #: LHYB-A24

Location: First Floor

Layer 1 of 2	Description: White soft material with paint	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler, Paint	None Detected ND	None Detected ND

Sampled by: Client

Analyzed by: Lauren Wetzel

Reviewed by: Matt Macfarlane

Date: 05/09/2018

Date: 05/09/2018

Matt Macfarlane, Asbestos Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: First Floor

Batch #: 1808510.00

Client Project #: Leahi Hospital Young Building TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 2 of 2	Description: White powdery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler	None Detected ND		None Detected ND

Lab ID: 18044554 **Client Sample #: LHYB-A25**

Location: First Floor

Layer 1 of 1	Description: White soft/foamy material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Paint	None Detected ND		None Detected ND

Lab ID: 18044555 **Client Sample #: LHYB-A26**

Location: First Floor

Layer 1 of 2	Description: White soft/foamy material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Paint	None Detected ND		None Detected ND

Layer 2 of 2	Description: White soft material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Paint	None Detected ND		None Detected ND

Lab ID: 18044556 **Client Sample #: LHYB-A27**

Location: First Floor

Layer 1 of 1	Description: White soft/foamy material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Paint	None Detected ND		None Detected ND

Lab ID: 18044557 **Client Sample #: LHYB-A28**

Location: First Floor

Sampled by: Client

Analyzed by: Lauren Wetzel

Reviewed by: Matt Macfarlane

Date: 05/09/2018

Date: 05/09/2018


Matt Macfarlane, Asbestos Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: First Floor

Batch #: 1808510.00

Client Project #: Leahi Hospital Young Building TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 1 of 1	Description: Black soft material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Binder/Filler	None Detected ND	Chrysotile 5%

Lab ID: 18044558 **Client Sample #: LHYB-A29**

Location: First Floor

Layer 1 of 1	Description: Black soft material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Binder/Filler	None Detected ND	Chrysotile 6%

Lab ID: 18044559 **Client Sample #: LHYB-A30**

Location: First Floor

Layer 1 of 1	Description: Black soft material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
		Binder/Filler	None Detected ND	Chrysotile 5%

Sampled by: Client

Analyzed by: Lauren Wetzel

Reviewed by: Matt Macfarlane

Date: 05/09/2018

Date: 05/09/2018


Matt Macfarlane, Asbestos Supervisor

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Company The Benzing Group, LLC
Address 329 Auwinala Road
 Kailua, HI 96734
Project Manager Mr. Ray Benzing
Phone (808) 261-7982
Cell (808) 725-7814
NVL Batch Number 1808510.00
TAT 3 Days **AH** No
Rush TAT
Due Date 5/9/2018 **Time** 9:15 AM
Email raybenzing@yahoo.com
Fax

Project Name/Number: Leahi Hospital
 Young Building TBG
Project Location: First Floor

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 15

Rush Samples

	Lab ID	Sample ID	Description	A/R
1	18044545	LHYB-A16		A
2	18044546	LHYB-A17		A
3	18044547	LHYB-A18		A
4	18044548	LHYB-A19		A
5	18044549	LHYB-A20		A
6	18044550	LHYB-A21		A
7	18044551	LHYB-A22		A
8	18044552	LHYB-A23		A
9	18044553	LHYB-A24		A
10	18044554	LHYB-A25		A
11	18044555	LHYB-A26		A
12	18044556	LHYB-A27		A
13	18044557	LHYB-A28		A
14	18044558	LHYB-A29		A
15	18044559	LHYB-A30		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	5/4/18	915
Analyzed by	Lauren Wetzel		NVL	5/9/18	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special
Instructions:

Date: 5/4/2018

Time: 11:07 AM

Entered By: Emily Schubert



286

1808510

ASBESTOS CHAIN OF CUSTODYTurn Around Time

☐ 2 Hour ☐ 4 Hour ☐ 24 Hours ☐ 2 Days
☒ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

The Benzing Group LLC
329 Auwinala Road, Kailua, Hawaii 96734
Telephone: (808) 725-7814 cell, (808) 261-7982 office
ray@thebenzinggroup.com
raybenzing@yahoo.com
Project Manager: Ray Benzing

Project Name/Number: Leahi Hospital Young Building/TBG-180010
Project Location: First floor

Analysis Requested:

☐ PCM Air (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II Modified)
☒ PLM (EPA 600/R-93-116) ☐ EPA 400 Points (600/R-93-116) ☐ EPA 1000Points (600/R-93-116)

Reporting Instructions:

Total Number of Samples: 15

	Sample ID	Homogeneous Area	Sample Location
1	LHYB-A16	12-inch by 12-inch beige with grey markings and black associated mastic in hallway	Hallway outside men's restroom
2	LHYB-A17		Hallway outside Rm 16L
3	LHYB-A18		Hallway outside existing pharmacy
4	LHYB-A19	12-inch by 12-inch tan floor tile with associated mastic	Room 19
5	LHYB-A20		Rm 16S
6	LHYB-A21		Existing Pharmacy
7	LHYB-A22	Door caulking	Men's restroom at hallway
8	LHYB-A23		Existing pharmacy
9	LHYB-A24		Outside Room 21
10	LHYB-A25	Metal cove base caulking	Room 25
11	LHYB-A26		Room 28
12	LHYB-A27		Existing pharmacy
13	LHYB-A28	Black sink undercoating	Room 25
14	LHYB-A29		
15	LHYB-A30		

	Name	Signature	Date	Time
Sampled by	Ray Benzing		4/25/18	
Relinquished by	Ray Benzing		5/2/18	

Received by Emily NVL 5-4-18 715 FEDEX

May 9, 2018

Ray Benzing
The Benzing Group, LLC
329 Auwinala Road
Kailua, HI 96734



Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1808508.00

Client Project: TBG-180010
Location: Leahi Hospital Young Building First Floor

Dear Mr. Benzing,

Enclosed please find test results for the 15 sample(s) submitted to our laboratory for analysis on 5/4/2018.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read "Nick Ly".

Nick Ly, Technical Director



Lab Code: 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808508.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Lab ID: 18044528 Client Sample #: LHYB-A31

Location: Leahi Hospital Young Building First Floor

Layer 1 of 2 Description: Off-white ceramic tile with light blue surface

Non-Fibrous Materials:	Other Fibrous Materials: %
Ceramic/Binder	None Detected ND

Asbestos Type: %
None Detected ND

Layer 2 of 2 Description: Off-white brittle material with trace paint

Non-Fibrous Materials:	Other Fibrous Materials: %
Binder/Filler, Calcareous particles, Paint	None Detected ND

Asbestos Type: %
None Detected ND

Lab ID: 18044529 Client Sample #: LHYB-A32

Location: First Floor

Layer 1 of 2 Description: Off-white brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %
Binder/Filler, Insect parts	None Detected ND

Asbestos Type: %
None Detected ND

Layer 2 of 2 Description: Light gray brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %
Binder/Filler, Granules	None Detected ND

Asbestos Type: %
None Detected ND

Lab ID: 18044530 Client Sample #: LHYB-A33

Location: First Floor

Layer 1 of 4 Description: Off-white ceramic tile with light blue surface

Non-Fibrous Materials:	Other Fibrous Materials: %
Ceramic/Binder	None Detected ND

Asbestos Type: %
None Detected ND

Layer 2 of 4 Description: Gray brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %
Binder/Filler, Sand	None Detected ND

Asbestos Type: %
None Detected ND

Sampled by: Client

Analyzed by: Alla Prysyazhnyuk

Reviewed by: Nick Ly

Date: 05/09/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808508.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 3 of 4	Description: Cream sandy/brittle material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler, Granules, Sand	None Detected ND	None Detected ND
Layer 4 of 4	Description: White brittle material with paint	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler, Paint, Rust	None Detected ND	None Detected ND

Lab ID: 18044531 Client Sample #: LHYB-A34

Location: First Floor

Layer 1 of 3	Description: Silver paint	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Metallic paint	None Detected ND	None Detected ND
Layer 2 of 3	Description: Off-white compressed fibrous material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler	None Detected ND	Chrysotile 65%
Layer 3 of 3	Description: Brown brittle mastic	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Mastic/Binder	None Detected ND	None Detected ND

Lab ID: 18044532 Client Sample #: LHYB-A35

Location: First Floor

Layer 1 of 3	Description: Silver paint	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Metallic paint	None Detected ND	None Detected ND
Layer 2 of 3	Description: Off-white compressed fibrous material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler	None Detected ND	Chrysotile 62%

Sampled by: Client

Analyzed by: Alla Prysyazhnyuk

Reviewed by: Nick Ly

Date: 05/09/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808508.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 3 of 3	Description: Brown brittle mastic	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Mastic/Binder	None Detected ND	None Detected ND

Lab ID: 18044533 **Client Sample #: LHYB-A36**

Location: First Floor

Layer 1 of 3	Description: Silver paint	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Metallic paint	None Detected ND	None Detected ND

Layer 2 of 3	Description: Off-white compressed fibrous material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler	None Detected ND	Chrysotile 59%

Layer 3 of 3	Description: Brown brittle mastic	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Mastic/Binder	None Detected ND	None Detected ND

Lab ID: 18044534 **Client Sample #: LHYB-A37**

Location: First Floor

Comments: Unable to separate mastics for analysis in layer 3.

Layer 1 of 3	Description: Off-white ceramic tile	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Ceramic/Binder	None Detected ND	None Detected ND

Layer 2 of 3	Description: Off-white brittle material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler, Caulking compound	None Detected ND	None Detected ND

Sampled by: Client

Analyzed by: Alla Prysyazhnyuk

Reviewed by: Nick Ly

Date: 05/09/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808508.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 3 of 3	Description: Trace thin off-white textured powdery material with paint and mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Fine particles, Mastic/Binder	Cellulose 2%		None Detected ND

Lab ID: 18044535 **Client Sample #: LHYB-A38**

Location: First Floor

Layer 1 of 2	Description: Off-white ceramic tile with cream surface			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Ceramic/Binder	None Detected ND		None Detected ND

Layer 2 of 2	Description: Off-white brittle material with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Fine particles, Debris	Cellulose 2%		None Detected ND

Lab ID: 18044536 **Client Sample #: LHYB-A39**

Location: First Floor

Layer 1 of 2	Description: Off-white ceramic tile			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Ceramic/Binder	None Detected ND		None Detected ND

Layer 2 of 2	Description: Off-white brittle material with trace paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Calcareous particles, Paint	Cellulose <1%		None Detected ND

Lab ID: 18044537 **Client Sample #: LHYB-A40**

Location: First Floor

Layer 1 of 4	Description: Light gray compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Calcareous particles, Paint	Cellulose 2%		None Detected ND
	Perlite			

Sampled by: Client

Analyzed by: Alla Prysyazhnyuk

Reviewed by: Nick Ly

Date: 05/09/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808508.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 2 of 4	Description: Off-white compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Calcareous particles, Paint	None Detected ND		Chrysotile 2%
Layer 3 of 4	Description: Trace thin yellow brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Mastic/Binder	None Detected ND		None Detected ND
Layer 4 of 4	Description: Peach chalky material with paper & paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Gypsum/Binder, Paint	Cellulose 23%		None Detected ND
	Mica	Glass fibers 10%		

Lab ID: 18044538 Client Sample #: LHYB-A41

Location: First Floor

Layer 1 of 2	Description: Off-white compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Calcareous particles, Paint	None Detected ND		Chrysotile 2%
Layer 2 of 2	Description: Peach chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Gypsum/Binder, Mica	Cellulose 20%		None Detected ND
		Glass fibers 7%		

Lab ID: 18044539 Client Sample #: LHYB-A42

Location: First Floor

Layer 1 of 3	Description: Off-white compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Calcareous particles, Paint	None Detected ND		Chrysotile 2%

Sampled by: Client

Analyzed by: Alla Prysyazhnyuk

Reviewed by: Nick Ly

Date: 05/09/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808508.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 2 of 3	Description: Beige thin fibrous material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler	Cellulose 27%	None Detected ND
Layer 3 of 3	Description: Off-white chalky material with paper	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler, Gypsum/Binder	Cellulose 24%	None Detected ND
			Glass fibers 5%	

Lab ID: 18044540 **Client Sample #: LHYB-A43**

Location: First Floor

Layer 1 of 4	Description: White textured powdery material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler, Fine particles	Wollastonite 3%	None Detected ND
Layer 2 of 4	Description: Yellow fibrous material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler	Glass fibers 89%	None Detected ND
Layer 3 of 4	Description: Off-white sandy/brittle material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler, Granules, Sand	None Detected ND	None Detected ND
Layer 4 of 4	Description: Brown brittle mastic	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Mastic/Binder	Wollastonite 2%	Chrysotile 2%

Lab ID: 18044541 **Client Sample #: LHYB-A44**

Location: First Floor

Sampled by: Client

Analyzed by: Alla Prysyazhnyuk

Reviewed by: Nick Ly

Date: 05/09/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808508.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 1 of 4	Description: White textured powdery material	Non-Fibrous Materials: Binder/Filler, Fine particles	Other Fibrous Materials:% Wollastonite 3%	Asbestos Type: % None Detected ND
Layer 2 of 4	Description: Yellow layered fibrous material	Non-Fibrous Materials: Binder/Filler	Other Fibrous Materials:% Glass fibers 92%	Asbestos Type: % None Detected ND
Layer 3 of 4	Description: Off-white sandy/brittle material	Non-Fibrous Materials: Binder/Filler, Granules, Sand	Other Fibrous Materials:% None Detected ND	Asbestos Type: % None Detected ND
Layer 4 of 4	Description: Brown brittle mastic	Non-Fibrous Materials: Mastic/Binder	Other Fibrous Materials:% Cellulose <1%	Asbestos Type: % None Detected ND

Lab ID: 18044542 **Client Sample #: LHYB-A45**

Location: First Floor

Layer 1 of 5	Description: White textured powdery material	Non-Fibrous Materials: Binder/Filler, Fine particles	Other Fibrous Materials:% Wollastonite 2%	Asbestos Type: % None Detected ND
Layer 2 of 5	Description: Yellow layered fibrous material	Non-Fibrous Materials: Binder/Filler	Other Fibrous Materials:% Glass fibers 89%	Asbestos Type: % None Detected ND
Layer 3 of 5	Description: Tan compressed fibrous material	Non-Fibrous Materials: Binder/Filler	Other Fibrous Materials:% Cellulose 76%	Asbestos Type: % None Detected ND

Sampled by: Client

Analyzed by: Alla Prysyazhnyuk

Reviewed by: Nick Ly

Date: 05/09/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808508.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 4 of 5	Description: Brown brittle mastic	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Mastic/Binder	None Detected ND	None Detected ND
Layer 5 of 5	Description: Off-white sandy/brittle material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler, Granules, Sand	None Detected ND	None Detected ND
		Organic debris		

Sampled by: Client

Analyzed by: Alla Prysyazhnyuk

Reviewed by: Nick Ly

Date: 05/09/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Company The Benzing Group, LLC
Address 329 Auwinala Road
 Kailua, HI 96734
Project Manager Mr. Ray Benzing
Phone (808) 261-7982
Cell (808) 725-7814
NVL Batch Number 1808508.00
TAT 3 Days **AH** No
Rush TAT
Due Date 5/9/2018 **Time** 9:15 AM
Email raybenzing@yahoo.com
Fax

Project Name/Number: TBG-180010 **Project Location:** Leahi Hospital Young Building First Floor

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 15

Rush Samples

	Lab ID	Sample ID	Description	A/R
1	18044528	LHYB-A31		A
2	18044529	LHYB-A32		A
3	18044530	LHYB-A33		A
4	18044531	LHYB-A34		A
5	18044532	LHYB-A35		A
6	18044533	LHYB-A36		A
7	18044534	LHYB-A37		A
8	18044535	LHYB-A38		A
9	18044536	LHYB-A39		A
10	18044537	LHYB-A40		A
11	18044538	LHYB-A41		A
12	18044539	LHYB-A42		A
13	18044540	LHYB-A43		A
14	18044541	LHYB-A44		A
15	18044542	LHYB-A45		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	5/4/18	915
Analyzed by	Alla Prysyzhnyuk		NVL	5/9/18	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions:

Date: 5/4/2018

Time: 10:40 AM

Entered By: Emily Schubert



386

1808508

ASBESTOS CHAIN OF CUSTODYTurn Around Time

☐ 2 Hour ☐ 4 Hour ☐ 24 Hours ☐ 2 Days
☒ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

The Benzing Group LLC
329 Auwinala Road, Kailua, Hawaii 96734
Telephone: (808) 725-7814 cell, (808) 261-7982 office
ray@thebenzinggroup.com
raybenzing@yahoo.com
Project Manager: Ray Benzing

Project Name/Number: Leahi Hospital Young Building/TBG-180010
Project Location: First floor

Analysis Requested:

☐ PCM Air (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II Modified)
☒ PLM (EPA 600/R-93-116) ☐ EPA 400 Points (600/R-93-116) ☐ EPA 1000Points (600/R-93-116)

Reporting Instructions:

Total Number of Samples: 15

	Sample ID	Homogeneous Area	Sample Location
1	LHYB-A31	4-inch by 4-inch blue ceramic tile grout/glazing	Room 30
2	LHYB-A32		Room 27
3	LHYB-A33		Existing storage
4	LHYB-A34	Sink lining - silver cardboard wrap with	Room 30
5	LHYB-A35		Room 27
6	LHYB-A36		Existing storage
7	LHYB-A37	4-inch by 4-inch yellow ceramic tile grout and glazing	Room 27
8	LHYB-A38		
9	LHYB-A39		
10	LHYB-A40	Gypsum wallboard and associated mud	Hallway
11	LHYB-A41		Existing storage
12	LHYB-A42		Small room
13	LHYB-A43	1-foot by 1-foot acoustical tiles with brown adhesive	
14	LHYB-A44		
15	LHYB-A45		

	Name	Signature	Date	Time
Sampled by	Ray Benzing		4/26/18	
Relinquished by	Ray Benzing		5/2/18	

Received by Emily NVL 5-4-18 9/5 FEDER

May 9, 2018

Ray Benzing
The Benzing Group, LLC
329 Auwinala Road
Kailua, HI 96734



Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1808507.00

Client Project: TBG-180010
Location: Leahi Hospital Young Building First Floor

Dear Mr. Benzing,

Enclosed please find test results for the 15 sample(s) submitted to our laboratory for analysis on 5/4/2018.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read "Nick Ly".

Nick Ly, Technical Director



Lab Code: 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808507.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Lab ID: 18044513 Client Sample #: LHYB-A46

Location: Leahi Hospital Young Building First Floor

Comments: Description on field data sheet does not match sample composition

Layer 1 of 3 Description: Brown rubbery material

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Rubber/Binder

None Detected ND

None Detected ND

Layer 2 of 3 Description: Yellow mastic

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Mastic/Binder

Cellulose 2%

None Detected ND

Layer 3 of 3 Description: White compacted powdery material with paint

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Calcareous binder, Fine particles, Paint

None Detected ND

Chrysotile 2%

Lab ID: 18044514 Client Sample #: LHYB-A47

Location: Leahi Hospital Young Building First Floor

Comments: Description on field data sheet does not match sample composition

Layer 1 of 3 Description: Brown rubbery material

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Rubber/Binder

None Detected ND

None Detected ND

Layer 2 of 3 Description: Yellow mastic

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Mastic/Binder

Cellulose 3%

None Detected ND

Layer 3 of 3 Description: White compacted powdery material with paint

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Calcareous binder, Fine particles, Paint

None Detected ND

Chrysotile 2%

Sampled by: Client

Analyzed by: Lauren Wetzel

Reviewed by: Nick Ly

Date: 05/08/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808507.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Lab ID: 18044515 Client Sample #: LHYB-A48

Location: Leahi Hospital Young Building First Floor

Comments: Description on field data sheet does not match sample composition

Layer 1 of 3 Description: Brown rubbery material

Non-Fibrous Materials:	Other Fibrous Materials: %
Rubber/Binder	None Detected ND

Asbestos Type: %
None Detected ND

Layer 2 of 3 Description: Yellow mastic

Non-Fibrous Materials:	Other Fibrous Materials: %
Mastic/Binder	Cellulose 4%

Asbestos Type: %
None Detected ND

Layer 3 of 3 Description: White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %
Calcareous binder, Fine particles, Paint	None Detected ND

Asbestos Type: %
Chrysotile 2%

Lab ID: 18044516 Client Sample #: LHYB-A49

Location: Leahi Hospital Young Building First Floor

Comments: Description on field data sheet does not match sample composition

Layer 1 of 2 Description: Gray compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %
Binder/Filler, Paint	Glass fibers 26%
	Cellulose 21%

Asbestos Type: %
None Detected ND

Layer 2 of 2 Description: Tan mastic

Non-Fibrous Materials:	Other Fibrous Materials: %
Mastic/Binder	None Detected ND

Asbestos Type: %
None Detected ND

Lab ID: 18044517 Client Sample #: LHYB-A50

Location: Leahi Hospital Young Building First Floor

Comments: Description on field data sheet does not match sample composition

Sampled by: Client

Analyzed by: Lauren Wetzel

Reviewed by: Nick Ly

Date: 05/08/2018

Date: 05/09/2018

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734**Attention: Mr. Ray Benzing**

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808507.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 1 of 2	Description: Gray compressed fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Paint	Glass fibers 25%		None Detected ND
		Cellulose 20%		
Layer 2 of 2	Description: Tan mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Mastic/Binder	None Detected ND		None Detected ND

Lab ID: 18044518 **Client Sample #: LHYB-A51**

Location: Leahi Hospital Young Building First Floor

Comments: Description on field data sheet does not match sample composition

Layer 1 of 2	Description: Gray compressed fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Paint	Glass fibers 26%		None Detected ND
		Cellulose 22%		
Layer 2 of 2	Description: Tan mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Mastic/Binder	None Detected ND		None Detected ND

Lab ID: 18044519 **Client Sample #: LHYB-A52**

Location: Leahi Hospital Young Building First Floor

Layer 1 of 1	Description: Black brittle material on brown fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler	Cellulose 44%		None Detected ND

Lab ID: 18044520 **Client Sample #: LHYB-A53**

Location: Leahi Hospital Young Building First Floor

Sampled by: Client**Analyzed by:** Lauren Wetzel**Reviewed by:** Nick Ly**Date:** 05/08/2018**Date:** 05/09/2018


Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808507.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 1 of 1	Description: Black brittle material on brown fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler	Cellulose 40%		None Detected ND

Lab ID: 18044521 **Client Sample #: LHYB-A54**

Location: Leahi Hospital Young Building First Floor

Layer 1 of 1	Description: Black brittle material on brown fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler	Cellulose 41%		None Detected ND

Lab ID: 18044522 **Client Sample #: LHYB-A55**

Location: Leahi Hospital Young Building First Floor

Layer 1 of 1	Description: Tan brittle material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Paint	None Detected ND		None Detected ND

Lab ID: 18044523 **Client Sample #: LHYB-A56**

Location: Leahi Hospital Young Building First Floor

Layer 1 of 1	Description: Tan brittle material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Paint	None Detected ND		None Detected ND

Lab ID: 18044524 **Client Sample #: LHYB-A57**

Location: Leahi Hospital Young Building First Floor

Layer 1 of 1	Description: Tan brittle material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Paint	None Detected ND		None Detected ND

Lab ID: 18044525 **Client Sample #: LHYB-A58**

Location: Leahi Hospital Young Building First Floor

Sampled by: Client

Analyzed by: Lauren Wetzel

Reviewed by: Nick Ly

Date: 05/08/2018

Date: 05/09/2018



Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808507.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 1 of 1	Description: Gray soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler	Cellulose 10%		None Detected ND

Lab ID: 18044526 **Client Sample #: LHYB-A59**

Location: Leahi Hospital Young Building First Floor

Layer 1 of 1	Description: Gray soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler	Cellulose 11%		None Detected ND

Lab ID: 18044527 **Client Sample #: LHYB-A60**

Location: Leahi Hospital Young Building First Floor

Layer 1 of 1	Description: Gray soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler	Cellulose 8%		None Detected ND

Sampled by: Client

Analyzed by: Lauren Wetzel

Reviewed by: Nick Ly

Date: 05/08/2018

Date: 05/09/2018



Nick Ly, Technical Director

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Company The Benzing Group, LLC
Address 329 Auwinala Road
 Kailua, HI 96734
Project Manager Mr. Ray Benzing
Phone (808) 261-7982
Cell (808) 725-7814
NVL Batch Number 1808507.00
TAT 3 Days **AH** No
Rush TAT
Due Date 5/9/2018 **Time** 9:15 AM
Email raybenzing@yahoo.com
Fax

Project Name/Number: TBG-180010 **Project Location:** Leahi Hospital Young Building First Floor

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 15

Rush Samples

	Lab ID	Sample ID	Description	A/R
1	18044513	LHYB-A46		A
2	18044514	LHYB-A47		A
3	18044515	LHYB-A48		A
4	18044516	LHYB-A49		A
5	18044517	LHYB-A50		A
6	18044518	LHYB-A51		A
7	18044519	LHYB-A52		A
8	18044520	LHYB-A53		A
9	18044521	LHYB-A54		A
10	18044522	LHYB-A55		A
11	18044523	LHYB-A56		A
12	18044524	LHYB-A57		A
13	18044525	LHYB-A58		A
14	18044526	LHYB-A59		A
15	18044527	LHYB-A60		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	5/4/18	915
Analyzed by	Lauren Wetzel		NVL	5/8/18	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions:

Date: 5/4/2018

Time: 10:25 AM

Entered By: Emily Schubert



486

1808507

ASBESTOS CHAIN OF CUSTODYTurn Around Time

☐ 2 Hour ☐ 4 Hour ☐ 24 Hours ☐ 2 Days
☒ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

The Benzing Group LLC
329 Auwinala Road, Kailua, Hawaii 96734
Telephone: (808) 725-7814 cell, (808) 261-7982 office
ray@thebenzinggroup.com
raybenzing@yahoo.com
Project Manager: Ray Benzing

Project Name/Number: Leahi Hospital Young Building/TBG-180010
Project Location: First floor

Analysis Requested:

☐ PCM Air (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II Modified)
☒ PLM (EPA 600/R-93-116) ☐ EPA 400 Points (600/R-93-116) ☐ EPA 1000Points (600/R-93-116)

Reporting Instructions:

Total Number of Samples: 15

	Sample ID	Homogeneous Area	Sample Location
1	LHYB-A46	1-foot by 1-foot ceiling tiles with adhesive	
2	LHYB-A47		
3	LHYB-A48		
4	LHYB-A49	6-inch brown vinyl cove base and mastic	
5	LHYB-A50		
6	LHYB-A51		
7	LHYB-A52	Lab black counter tops	
8	LHYB-A53		
9	LHYB-A54		
10	LHYB-A55	Window glazing	
11	LHYB-A56		
12	LHYB-A57		
13	LHYB-A58	Grey sink undercoating	Room 16S/16R
14	LHYB-A59		
15	LHYB-A60		

	Name	Signature	Date	Time
Sampled by	Ray Benzing		4/26/18	
Relinquished by	Ray Benzing		5/2/18	

Received by Emily

NVL 5-4-18

915 FEDEX

May 9, 2018

Ray Benzing
The Benzing Group, LLC
329 Auwinala Road
Kailua, HI 96734



Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1808506.00

Client Project: TBG-180010
Location: Leahi Hospital Young Building First Floor

Dear Mr. Benzing,

Enclosed please find test results for the 18 sample(s) submitted to our laboratory for analysis on 5/4/2018.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read "Nick Ly".

Nick Ly, Technical Director



Lab Code: 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808506.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 18

Samples Analyzed: 18

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Lab ID: 18044495 Client Sample #: LHYB-A61

Location: First Floor

Layer 1 of 1 Description: White flaky material

Non-Fibrous Materials:
Binder/Filler, Fine particles

Other Fibrous Materials:%
Cellulose 12%

Asbestos Type: %
None Detected ND

Lab ID: 18044496 Client Sample #: LHYB-A62

Location: First Floor

Layer 1 of 1 Description: White flaky material

Non-Fibrous Materials:
Binder/Filler, Fine particles

Other Fibrous Materials:%
Cellulose 10%

Asbestos Type: %
None Detected ND

Lab ID: 18044497 Client Sample #: LHYB-A63

Location: First Floor

Layer 1 of 1 Description: White flaky material

Non-Fibrous Materials:
Binder/Filler, Fine particles

Other Fibrous Materials:%
Cellulose 13%

Asbestos Type: %
None Detected ND

Lab ID: 18044498 Client Sample #: LHYB-A64

Location: First Floor

Layer 1 of 2 Description: White vinyl tile with paint

Non-Fibrous Materials:
Vinyl/Binder, Paint, Carbonaceous material

Other Fibrous Materials:%
Cellulose 2%

Asbestos Type: %
None Detected ND

Layer 2 of 2 Description: Brown soft mastic

Non-Fibrous Materials:
Mastic/Binder, Fine grains, Fine particles

Other Fibrous Materials:%
Cellulose 3%

Asbestos Type: %
None Detected ND

Lab ID: 18044499 Client Sample #: LHYB-A65

Location: First Floor

Sampled by: Client

Analyzed by: William Minor

Reviewed by: Nick Ly

Date: 05/18/2018

Date: 05/09/2018



Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808506.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 18

Samples Analyzed: 18

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 1 of 2	Description: White vinyl tile			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Vinyl/Binder, Fine particles	Cellulose <1%		None Detected ND

Layer 2 of 2	Description: Yellow soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Mastic/Binder, Fine particles	Cellulose 4%		None Detected ND

Lab ID: 18044500 **Client Sample #: LHYB-A66**

Location: First Floor

Layer 1 of 2	Description: Tan vinyl tile			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Vinyl/Binder	Cellulose 2%		None Detected ND

Layer 2 of 2	Description: Yellow soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Mastic/Binder, Fine particles	Cellulose 4%		None Detected ND

Lab ID: 18044501 **Client Sample #: LHYB-A67**

Location: First Floor

Layer 1 of 5	Description: Black asphaltic material with multi-colored mineral grains			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Mineral grains, Fine grains	Glass fibers 18%		None Detected ND
		Cellulose 2%		

Layer 2 of 5	Description: Black brittle asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Fine grains, Fine particles	Cellulose 3%		None Detected ND
		Glass fibers 2%		

Sampled by: Client

Analyzed by: William Minor

Reviewed by: Nick Ly

Date: 05/18/2018

Date: 05/09/2018



Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808506.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 18

Samples Analyzed: 18

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 3 of 5	Description: Black fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Fine grains	Glass fibers 85%		None Detected ND
		Cellulose 3%		
Layer 4 of 5	Description: Black soft asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Fine particles	Cellulose 3%		None Detected ND
		Glass fibers <1%		
Layer 5 of 5	Description: Black fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Fine grains, Fine particles	Glass fibers 90%		None Detected ND

Lab ID: 18044502 **Client Sample #: LHYB-A68**

Location: First Floor

Layer 1 of 5	Description: Black asphaltic material with multi-colored mineral grains			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Mineral grains, Fine grains	Glass fibers 15%		None Detected ND
		Cellulose 2%		
Layer 2 of 5	Description: Black brittle asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Fine grains, Fine particles	Cellulose 3%		None Detected ND
		Glass fibers <1%		
Layer 3 of 5	Description: Black fibous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Fine grains, Fine particles	Glass fibers 91%		None Detected ND

Sampled by: Client

Analyzed by: William Minor

Reviewed by: Nick Ly

Date: 05/18/2018

Date: 05/09/2018



Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808506.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 18

Samples Analyzed: 18

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

		Cellulose	<1%	
Layer 4 of 5	Description: Black soft asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Asphalt/Binder, Fine grains, Fine particles	Cellulose	5%	None Detected ND
		Glass fibers	<1%	
Layer 5 of 5	Description: Black fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Asphalt/Binder, Fine particles	Glass fibers	94%	None Detected ND
		Cellulose	2%	

Lab ID: 18044503 **Client Sample #: LHYB-A69**

Location: First Floor

Layer 1 of 5	Description: Black asphaltic material with multi-colored mineral grains			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Asphalt/Binder, Mineral grains	Glass fibers	14%	None Detected ND
		Cellulose	2%	
Layer 2 of 5	Description: Black brittle asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Asphalt/Binder, Fine grains, Fine particles	Cellulose	5%	None Detected ND
		Glass fibers	<1%	
Layer 3 of 5	Description: Black fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Asphalt/Binder, Fine grains	Glass fibers	91%	None Detected ND

Sampled by: Client

Analyzed by: William Minor

Reviewed by: Nick Ly

Date: 05/18/2018

Date: 05/09/2018



Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

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Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808506.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 18

Samples Analyzed: 18

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 4 of 5	Description: Black soft asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Fine particles	Cellulose 4%		None Detected ND
		Glass fibers <1%		

Layer 5 of 5	Description: Black fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Fine grains, Fine particles	Glass fibers 96%		None Detected ND

Lab ID: 18044504 **Client Sample #: LHYB-A70**

Location: First Floor

Layer 1 of 3	Description: Black asphaltic material with multi-colored mineral grains			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Mineral grains, Fine grains	Glass fibers 10%		None Detected ND
		Cellulose 3%		

Layer 2 of 3	Description: Black brittle asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Fine particles	Cellulose 6%		None Detected ND

Layer 3 of 3	Description: Black fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Fine particles	Glass fibers 92%		None Detected ND

Lab ID: 18044505 **Client Sample #: LHYB-A71**

Location: First Floor

Layer 1 of 2	Description: White fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler	Cellulose 65%		None Detected ND

Sampled by: Client

Analyzed by: William Minor

Reviewed by: Nick Ly

Date: 05/18/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808506.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 18

Samples Analyzed: 18

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 2 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Fine particles	Cellulose 4%		None Detected ND

Lab ID: 18044506 **Client Sample #: LHYB-A72**

Location: First Floor

Layer 1 of 1	Description: Black asphaltic fibrous built-up material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Mineral grains, Fine grains	Glass fibers 9%		None Detected ND
		Cellulose 4%		

Lab ID: 18044507 **Client Sample #: LHYB-A73**

Location: First Floor

Layer 1 of 4	Description: Brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Mastic/Binder, Fine particles	Cellulose 3%		None Detected ND
Layer 2 of 4	Description: Brown woven fibers			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler	Cellulose 95%		None Detected ND
Layer 3 of 4	Description: Brown firm material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Linoleum/Binder	Cellulose 16%		None Detected ND
Layer 4 of 4	Description: Yellow brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Mastic/Binder	Cellulose 3%		None Detected ND

Lab ID: 18044508 **Client Sample #: LHYB-A74**

Location: First Floor

Sampled by: Client

Analyzed by: William Minor

Reviewed by: Nick Ly

Date: 05/18/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808506.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 18

Samples Analyzed: 18

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 1 of 4	Description: Brown brittle mastic	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Mastic/Binder, Fine particles	Cellulose 2%	None Detected ND
Layer 2 of 4	Description: Brown woven fibers	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Binder/Filler	Cellulose 97%	None Detected ND
Layer 3 of 4	Description: Brown firm material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Linoleum/Binder	Cellulose 24%	None Detected ND
Layer 4 of 4	Description: Yellow brittle mastic	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Mastic/Binder	Cellulose 3%	None Detected ND

Lab ID: 18044509 **Client Sample #: LHYB-A75**

Location: First Floor

Layer 1 of 1	Description: Brown brittle mastic	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Mastic/Binder	Cellulose 3%	None Detected ND

Lab ID: 18044510 **Client Sample #: LHYB-A76**

Location: First Floor

Layer 1 of 1	Description: Brown brittle mastic	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Mastic/Binder, Adhesive/Binder	Cellulose 4%	None Detected ND

Lab ID: 18044511 **Client Sample #: LHYB-A77**

Location: First Floor

Sampled by: Client

Analyzed by: William Minor

Reviewed by: Nick Ly

Date: 05/18/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: The Benzing Group, LLC

Address: 329 Auwinala Road
Kailua, HI 96734

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Batch #: 1808506.00

Client Project #: TBG-180010

Date Received: 5/4/2018

Samples Received: 18

Samples Analyzed: 18

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 1 of 1	Description: Brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Mastic/Binder, Fine particles	Cellulose 3%		None Detected ND

Lab ID: 18044512 **Client Sample #: LHYB-A78**

Location: First Floor

Layer 1 of 1	Description: Brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Mastic/Binder, Fine particles	Cellulose 2%		None Detected ND

Sampled by: Client

Analyzed by: William Minor

Reviewed by: Nick Ly

Date: 05/18/2018

Date: 05/09/2018



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Company The Benzing Group, LLC
Address 329 Auwinala Road
 Kailua, HI 96734
Project Manager Mr. Ray Benzing
Phone (808) 261-7982
Cell (808) 725-7814
NVL Batch Number 1808506.00
TAT 3 Days **AH** No
Rush TAT
Due Date 5/9/2018 **Time** 9:15 AM
Email raybenzing@yahoo.com
Fax

Project Name/Number: TBG-180010 **Project Location:** Leahi Hospital Young Building First Floor

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 18

Rush Samples

	Lab ID	Sample ID	Description	A/R
1	18044495	LHYB-A61		A
2	18044496	LHYB-A62		A
3	18044497	LHYB-A63		A
4	18044498	LHYB-A64		A
5	18044499	LHYB-A65		A
6	18044500	LHYB-A66		A
7	18044501	LHYB-A67		A
8	18044502	LHYB-A68		A
9	18044503	LHYB-A69		A
10	18044504	LHYB-A70		A
11	18044505	LHYB-A71		A
12	18044506	LHYB-A72		A
13	18044507	LHYB-A73		A
14	18044508	LHYB-A74		A
15	18044509	LHYB-A75		A
16	18044510	LHYB-A76		A
17	18044511	LHYB-A77		A
18	18044512	LHYB-A78		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	5/4/18	915
Analyzed by	William Minor		NVL	5/18/18	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions:

Date: 5/4/2018

Time: 10:17 AM

Entered By: Emily Schubert



586

1808506

ASBESTOS CHAIN OF CUSTODYTurn Around Time

☐ 2 Hour ☐ 4 Hour ☐ 24 Hours ☐ 2 Days
☒ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

The Benzing Group LLC
329 Auwinala Road, Kailua, Hawaii 96734
Telephone: (808) 725-7814 cell, (808) 261-7982 office
ray@thebenzinggroup.com
raybenzing@yahoo.com
Project Manager: Ray Benzing

Project Name/Number: Leahi Hospital Young Building/TBG-180010
Project Location: First floor

Analysis Requested:

☐ PCM Air (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II Modified)
☒ PLM (EPA 600/R-93-116) ☐ EPA 400 Points (600/R-93-116) ☐ EPA 1000Points (600/R-93-116)

Reporting Instructions:

Total Number of Samples: 15

	Sample ID	Homogeneous Area	Sample Location
1	LHYB-A61	White sink undercoating	Room 16S/16R
2	LHYB-A62		
3	LHYB-A63		
4	LHYB-A64	12-inch by 12-inch gray floor tile and black mastic	Existing storage
5	LHYB-A65		Office
6	LHYB-A66		office
7	LHYB-A67	Black roofing felt	Future carpentry shop
8	LHYB-A68		
9	LHYB-A69		
10	LHYB-A70	Black roof mastic along seams	Future carpentry shop
11	LHYB-A71		
12	LHYB-A72		
13	LHYB-A73	Brown sheet flooring under carpeting and associated mastic	Far west office reception by door
14	LHYB-A74		Far west office reception by wall
15	LHYB-A75		Supervisors office

	Name	Signature	Date	Time
Sampled by	Ray Benzing		4/26/18	
Relinquished by	Ray Benzing		5/2/18	

Received by Emily S NVL 5-4-18 915 FEDEX



6 of 6

1808506

ASBESTOS CHAIN OF CUSTODY

Turn Around Time

- ☐ 2 Hour ☐ 4 Hour ☐ 24 Hours ☐ 2 Days
☒ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

The Benzing Group LLC
329 Auwinala Road, Kailua, Hawaii 96734
Telephone: (808) 725-7814 cell, (808) 261-7982 office
ray@thebenzinggroup.com
raybenzing@yahoo.com
Project Manager: Ray Benzing

Project Name/Number: Leahi Hospital Young Building/TBG-180010
Project Location: First floor

Analysis Requested:

- ☐ PCM Air (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II Modified)
☒ PLM (EPA 600/R-93-116) ☐ EPA 400 Points (600/R-93-116) ☐ EPA 1000Points (600/R-93-116)

Reporting Instructions:

Total Number of Samples: 3

	Sample ID	Homogeneous Area	Sample Location
1	LHYB-A76	Window glazing	Future carpentry shop
2	LHYB-A77		
3	LHYB-A78		
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

	Name	Signature	Date	Time
Sampled by	Ray Benzing		4/26/18	
Relinquished by	Ray Benzing		5/2/18	

Received by Emily S 5-4-18 9:15 FEDEX



Attachment 2

Lead Laboratory Report

May 7, 2018

Ray Benzing

The Benzing Group, LLC

329 Auwinala Road

Kailua, HI 96734



Laboratory | Management | Training

RE: Metals Analysis; NVL Batch # 1808504.00

Dear Mr. Benzing,

Enclosed please find the test results for samples submitted to our laboratory for analysis. Preparation of these samples was conducted following protocol outlined in EPA Method SW 846 -3051 unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with U.S. EPA, NIOSH, OSHA and other ASTM methods.

For matrix materials submitted as paint, dust wipe, soil or TCLP samples, analysis for the presence of total metals is conducted using published U.S. EPA Methods. Paint and soil results are usually expressed in mg/Kg which is equivalent to parts per million (ppm). Lead (Pb) in paint is usually expressed in mg/Kg (ppm), Percent (%) or mg/cm² by area. Dust wipe sample results are usually expressed in ug/wipe and ug/ft². TCLP samples are reported in mg/L (ppm). For air filter samples, analyses are conducted using NIOSH and OSHA Methods. Results are expressed in ug/filter and ug/m³. Other matrix materials are analyzed accordingly using published methods or specified by client. The reported test results pertain only to items tested and are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more details.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. If you need further assistance please feel free to call us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

A handwritten signature in black ink, appearing to read "Shalini Patel".

Shalini Patel, Laboratory Analyst

1.888.NVL.LABS
1.888.(685.5227)
www.nvllabs.com



NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936

Analysis Report

Total Lead (Pb)

Client: The Benzing Group, LLC
Address: 329 Auwinala Road
Kailua, HI 96734

Batch #: 1808504.00

Matrix: Paint
Method: EPA 3051/7000B
Client Project #: TBG-180010
Date Received: 5/4/2018
Samples Received: 19
Samples Analyzed: 19

Attention: Mr. Ray Benzing

Project Location: Leahi Hospital Young Building First Floor

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
18044468	LHYB-L1	0.1863	54	1300	0.13
18044469	LHYB-L2	0.1802	55	3400	0.34
18044470	LHYB-L3	0.1946	51	1400	0.14
18044471	LHYB-L4	0.1980	51	2400	0.24
18044472	LHYB-L5	0.1853	54	1200	0.12
18044473	LHYB-L6	0.1911	52	1800	0.18
18044474	LHYB-L7	0.2087	48	< 48	<0.0048
18044475	LHYB-L8	0.1875	53	900	0.090
18044476	LHYB-L9	0.1949	51	180	0.018
18044477	LHYB-L10	0.1954	51	81	0.0081
18044478	LHYB-L11	0.1934	52	270	0.027
18044479	LHYB-L12	0.1911	52	1400	0.14
18044480	LHYB-L13	0.1951	51	2300	0.23
18044481	LHYB-L14	0.2074	48	240	0.024
18044482	LHYB-L15	0.2088	48	1600	0.16
18044483	LHYB-L16	0.1870	53	2100	0.21
18044484	LHYB-L17	0.1806	55	< 55	<0.0055
18044485	LHYB-L18	0.1887	53	35000	3.5
18044486	LHYB-L19	0.1987	50	490	0.049

Sampled by: Client

Analyzed by: Yasuyuki Hida

Reviewed by: Shalini Patel

Date Analyzed: 05/07/2018

Date Issued: 05/07/2018

Shalini Patel, Laboratory Analyst

mg/ Kg =Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit

'<' = Below the reporting Limit

Bench Run No: 2018-0507-2

Company The Benzing Group, LLC
Address 329 Auwinala Road
 Kailua, HI 96734
Project Manager Mr. Ray Benzing
Phone (808) 261-7982
Cell (808) 725-7814
NVL Batch Number 1808504.00
TAT 3 Days **AH** No
Rush TAT
Due Date 5/9/2018 **Time** 9:15 AM
Email raybenzing@yahoo.com
Fax

Project Name/Number: TBG-180010 **Project Location:** Leahi Hospital Young Building First Floor

Subcategory Flame AA (FAA)

Item Code FAA-02 EPA 7000B Lead by FAA <paint>

Total Number of Samples 19

Rush Samples

	Lab ID	Sample ID	Description	A/R
1	18044468	LHYB-L1		A
2	18044469	LHYB-L2		A
3	18044470	LHYB-L3		A
4	18044471	LHYB-L4		A
5	18044472	LHYB-L5		A
6	18044473	LHYB-L6		A
7	18044474	LHYB-L7		A
8	18044475	LHYB-L8		A
9	18044476	LHYB-L9		A
10	18044477	LHYB-L10		A
11	18044478	LHYB-L11		A
12	18044479	LHYB-L12		A
13	18044480	LHYB-L13		A
14	18044481	LHYB-L14		A
15	18044482	LHYB-L15		A
16	18044483	LHYB-L16		A
17	18044484	LHYB-L17		A
18	18044485	LHYB-L18		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	5/4/18	915
Analyzed by	Yasuyuki Hida		NVL	5/7/18	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions:

Date: 5/4/2018

Time: 10:08 AM

Entered By: Emily Schubert

Company The Benzing Group, LLC **NVL Batch Number** **1808504.00**
Address 329 Auwinala Road **TAT** 3 Days **AH** No
 Kailua, HI 96734 **Rush TAT**
Project Manager Mr. Ray Benzing **Due Date** 5/9/2018 **Time** 9:15 AM
Phone (808) 261-7982 **Email** raybenzing@yahoo.com
Cell (808) 725-7814 **Fax**

Project Name/Number: TBG-180010 **Project Location:** Leahi Hospital Young Building First Floor

Subcategory Flame AA (FAA)

Item Code FAA-02 EPA 7000B Lead by FAA <paint>

Total Number of Samples 19

Rush Samples

	Lab ID	Sample ID	Description	A/R
19	18044486	LHYB-L19		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	5/4/18	915
Analyzed by	Yasuyuki Hida		NVL	5/7/18	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions:

Date: 5/4/2018

Time: 10:08 AM

Entered By: Emily Schubert



LEAD CHAIN OF CUSTODY

Turn Around Time

☐ 2 Hour ☐ 4 Hour ☐ 24 Hours ☐ 2 Days
☒ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

The Benzing Group LLC
 329 Auwinala Road, Kailua, Hawaii 96734
 Telephone: (808) 725-7814 cell, (808) 261-7982 office
ray@thebenzinggroup.com
raybenzing@yahoo.com
 Project Manager: Ray Benzing

Project Name/Number: Leahi Hospital Young Building/TBG-180010
 Project Location: First floor

Analysis Requested:

☒ Total Metals ☒ Paint Chips (CM) ☒ Lead ☐ FAA (ppm)
 Reporting Instructions: Please report on % lead by weight

Total Number of Samples:

	Sample ID	Description	Color	Substrate	Comment
1	LHYB-L1	Walls	TAN	hard plaster	
2	LHYB-L2	storage closet walls	GRAY	hard plaster	
3	LHYB-L3	walls	blue	hard plaster	
4	LHYB-L4	walls	Tan	hard plaster	
5	LHYB-L5	window frames	beige	wood	
6	LHYB-L6	base boards	Beige	metal	
7	LHYB-L7	walls	Beige	hard plaster	
8	LHYB-L8	ceiling	Beige	hard plaster	
9	LHYB-L9	Built-in furniture	Beige	wood	
10	LHYB-L10	door	Beige	wood	
11	LHYB-L11	door frames	Beige	metal	
12	LHYB-L12	closet systems	Tan	wood	
13	LHYB-L13	walls	green	hard plaster	
14	LHYB-L14	walls	white	hard plaster	
15	LHYB-L15	cabinets	yellow	wood	

	Name	Signature	Date	Time
Sampled by	Ray Benzing		4/24/18	
Relinquished by	Ray Benzing		5/2/18	

Received by Emily S. NVL 5.4.18 9:15 PM



LEAD CHAIN OF CUSTODY

Turn Around Time

☐ 2 Hour ☐ 4 Hour ☐ 24 Hours ☐ 2 Days
☒ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

The Benzing Group LLC
 329 Auwinala Road, Kailua, Hawaii 96734
 Telephone: (808) 725-7814 cell, (808) 261-7982 office
ray@thebenzinggroup.com
raybenzing@yahoo.com
 Project Manager: Ray Benzing

Project Name/Number: Leahi Hospital Young Building/TBG-180010
 Project Location: First floor

Analysis Requested:

☒ Total Metals ☒ Paint Chips (CM) ☒ Lead ☐ FAA (ppm)
 Reporting Instructions: Please report on % lead by weight

Total Number of Samples:

	Sample ID	Description	Color	Substrate	Comment
1	LHYB-L16	walls	light yellow	hard plaster	
2	LHYB-L17	walls	brown	hard plaster	
3	LHYB-L18	window frames	brown	wood	
4	LHYB-L19	exterior wall	beige	hard plaster	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

	Name	Signature	Date	Time
Sampled by	Ray Benzing	<i>Ray Benzing</i>	4/26/18	
Relinquished by	Ray Benzing	<i>Ray Benzing</i>	5/2/18	

Received by Emily *[Signature]* NVL 5-1-18 915 FEDEX

Attachment 3

Photographs



Photo 1 April 26, 2018	Project Site: Young Building - First Floor – Leahi Hospital, Honolulu, Hawaii	Project No. TBG-180010
	Description: Asbestos-containing 9-inch by 9-inch floor tiles and associated mastic	
	Client: CKM Architects, LLC.	



Photo 2 April 26, 2018	Project Site: Young Building - First Floor –Leahi Hospital, Honolulu, Hawaii	Project No. TBG-180010
	Description: Asbestos black sink undercoating in existing doctor's office (Room 27).	
	Client: CKM Architects, LLC.	



Photo 3 April 26, 2018	Project Site: Young Building - First Floor – Leahi Hospital, Honolulu, Hawaii	Project No. TBG-180010
	Description: Asbestos sink underlining in existing lab (Room 30).	
	Client: CKM Architects, LLC.	



Photo 4 April 26, 2018	Project Site: Young Building - First Floor – Leahi Hospital, Honolulu, Hawaii	Project No. TBG-180010
	Description: Asbestos sink underlining hanging off sink in existing storage room (poor condition).	
	Client: CKM Architects, LLC.	



Photo 5
April 26, 2018

Project Site: Young Building - First Floor – Leahi Hospital, Honolulu, Hawaii
Description: Asbestos-containing gypsum wallboard and mud in existing storage.
Client: CKM Architects, LLC.

Project No.
TBG-180010



Photo 6
April 26, 2018

Project Site: Young Building - First Floor – Leahi Hospital, Honolulu, Hawaii
Description: Ceiling 1-foot by 1-foot acoustical tiles with asbestos-containing brown mastic.
Client: CKM Architects, LLC.

Project No.
TBG-180010



Photo 7
April 26, 2018

Project Site: Young Building - First Floor – Leahi Hospital, Honolulu, Hawaii
 Description: Brown 6-inch vinyl cove base on gypsum wallboard in existing storage room.
 Client: CKM Architects, LLC.

Project No.
TBG-180010



Photo 8
April 26, 2018

Project Site: Young Building - First Floor – Leahi Hospital, Honolulu, Hawaii
 Description: Brown LBP on window frames and sills in the existing lanai (future carpentry shop).
 Client: CKM Architects, LLC.

Project No.
TBG-180010