

MISSISSIPPI ASBESTOS DEMOLITION/RENOVATION NOTIFICATION FORM

Mail notification to: MDEQ Asbestos and Lead Branch, 515 E. Amite Street, Jackson, MS 39201

MDEQ Use Only: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Hand Delivery		Postmark (mail only)	Date Received: 4/19/2024	AI Number
I. Type of Notification (O=Original <u>R=Revised</u> C=Canceled A= Annual): Original Revised ² 4/19/2024				
II. TYPE OF OPERATION (D=Demo O= Ordered Demo R=Renovation E=Emer. Renovation): Renovation				
III. FACILITY DESCRIPTION (Include building name, number and floor or room number):				
Bldg. Name: Harlhorn Hall / Mississippi State University 2nd Floor north wing only/ 5th floor entire floor				
Address: 76 Magruder Street				
City: Starkville		State: MS	Zip: 39759	
Site Location: Harlhorn Hall		Tel: 662-717-0143		
Building Size: 75,000		# of Floors: 5	Age in Years: 60+	
Present Use: Dormitory		Prior Use: Dormitory		
IV. FACILITY INFORMATION (Identify owner, asbestos removal contractor, and other operator)				
OWNER NAME: Mississippi State University				
Address: P.O. Box 6334/ 25 Old Main/ 101 Montgomery Hall				
City: Mississippi State		State: MS	Zip: 39762	
Contact: Jacob Forester (Ethos Contracting Group, llc)		Tel: 662-325-2224 662-418-6514		
ASBESTOS REMOVAL CONTRACTOR: EAI / Environmental Abatement Inc.				
Address: 340 Rockland Road				
City: Hendersonville		State: Tn	Zip: 37075	
Contact: Scott Klaus		Tel: 615-264-2711		
Certification Number: NO. 24120-SC ABC-00009155		Expiration Date: FEB 18th, 2025 Jan 26th, 2025		
OTHER OPERATOR:				
Address:				
City:		State:	Zip:	
Contact:		Tel:		
V. WAS SITE INSPECTED TO DETERMINE PRESENCE OF ASBESTOS? (Yes/No): YES				
WAS ASBESTOS PRESENT? (Yes/No): Yes		Inspection Date: 10/17/2023		
Inspector: Scott Cornish		Certification Number: ABI-00006892	Expiration Date: 2/15/2024	
VI. SUSPECT MATERIALS SAMPLED AND PROCEDURES USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL:				
See Attached paperwork / PLM				
VII. QUANTITY OF RACM TO BE REMOVED:				
Pipes (LN FT):	Surface Area (SQ FT): 24,000 Floor tile and Mastic		Volume of Facility Components (CU FT):	
VIII. QUANTITY OF NONFRIABLE ASBESTOS NOT REMOVED:				
Category I:		Category II:		
IX. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY) Start: 5/13/2024			Complete: 6/8/2024	
X. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY) Start:			Complete:	

XI. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK, AND METHOD(S) TO BE USED:

Remove under negative pressure enclosure, and wet methods of removal

XII. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE:

Contain each floor individually/ Remove ACBM / Run Clearance/ Tear down containment/ Move to the Next floor and repeat/ Negative air machines/ Wet removal /

XIII. WASTE TRANSPORTER #1

Name: Waste Pro

Address: 2187 Stalene Rd. West

City: Southaven

State: Ms

Zip: 38671

Contact Person: Julie Goodwin

Tel: 662-574-0028

WASTE TRANSPORTER #2

Name:

Address:

City:

State:

Zip:

Contact Person:

Tel:

XIV. WASTE DISPOSAL SITE

Name: Kemper Landfill

Address: 4205 Beasley Road

City: Gautier

State: MS

Zip: 39553

Contact Person: Julie Goodwin

Tel: 662-574-0028

XV. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, PLEASE IDENTIFY THE AGENCY BELOW:

Name:

Title:

Authority:

Date of Order (MM/DD/YY):

Date Ordered to Begin (MM/DD/YY):

XVI. FOR EMERGENCY RENOVATIONS: NA

Date and Hour of Emergency (MM/DD/YY):

Description of the sudden unexpected event:

Explanation of how the event caused unsafe condllons or would cause equipment damage or an unreasonable financial burden:

XVII. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASTESTOS MATERIAL BECOMES CRUMBLD, PULVERIZED, OR REDUCED TO POWDER:

Stop work / Contain area and Notify owner

XVIII. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ONSITE DURING THE DEMOLITION OR RENOVATION, AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS.

Scott Klaus

Type or Print Name

[Signature]

(Signature of Owner/Operator)

~~2/22/24~~

~~4/16/2024~~
4/19/2024

XIX. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT:

Scott Klaus

Type or Print Name

[Signature]

(Signature of Owner/Operator)

~~2/22/24~~

~~4/16/2024~~
4/19/2024

State of Mississippi

*Department of Environmental Quality
Office of Pollution Control*

Certificate of Licensure

In accordance with the Asbestos Abatement Accreditation and Certification Act,
Enacted as 1989 Mississippi Law, Chapter 505

Be it known that

Daniel R. Kempf

Having submitted acceptable evidence of qualifications and
training and other appropriate information, is hereby granted this

*Asbestos Contractor
Certification*



*Certificate No.: ABC-00009155
Expiration Date: Jun 26th, 2025
Training Expires on Jun 26th, 2025*

Chief, Asbestos & Lead Branch

40828 LIC20240001

State of Mississippi

BOARD OF CONTRACTORS

ENVIRONMENTAL ABATEMENT, INC.

ACTIVE

340 ROCKLAND RD
HENDERSONVILLE, TN 37075

is duly registered and entitled to perform

- 1) DEMOLITION
- 2) HAZARDOUS MAT. ABATEMENT & REMEDIATION

We have herewith set our hand and caused the Seal of the Mississippi Board of Contractors to be affixed this 13 day of Feb., 2024



CERTIFICATE OF RESPONSIBILITY

No. 24120-SC

Expires Feb. 18, 2025

Paul A. Cantrell

CHAIRMAN OF THE BOARD

CA Labs
Dedicated to
Quality

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Shafer & Associates
510 University Drive
Starkville, MS 39759

Attn: Scott Comish
Customer Project: Hothorn Hall Flooring
Reference #: CBR23108020

Date: 10/18/2023

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite-vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

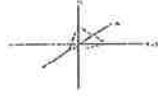
Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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CA Labs, L.L.C.
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Phone 225-751-5632
Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: Hothorn Hall Flooring CA Labs Project #: CBR23108020

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
26	26-1	Tan Floor Tile	6% Chrysotile	Tan Floor Tile Black Mastic
46	46-1	Tan Floor Tile	6% Chrysotile	
	46-2	Black Mastic	5% Chrysotile	
47	47-1	Tan Floor Tile	6% Chrysotile	
	47-2	Black Mastic	5% Chrysotile	
48	48-1	Tan Floor Tile	6% Chrysotile	
	48-2	Black Mastic	5% Chrysotile	

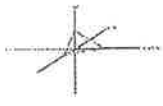
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

- | | | | |
|------------------|--------------|--------------------|--------------------------|
| ca - carbonate | pe - perlite | fg - fiberglass | pa - palygorskite (clay) |
| gyp - gypsum | qu - quartz | mw - mineral wool | |
| bl - binder | | wo - wollastinite | |
| or - organic | | ta - talc | |
| ma - matix | | sy - synthetic | |
| mi - mica | | ca - cellulose | |
| ve - vermiculite | | br - brucite | |
| ot - other | | ka - kaolin (clay) | |

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Scott Cornish
Shafer & Associates
510 University Drive
Starkville, MS 39759

Customer Project:
Hothorn Hall Flooring

CA Labs Project #:
CBR23108020

Phone # 662-323-1628
Fax # 662-324-8239

Turnaround Time: 2 day

Date: 10/18/2023
Samples Received: 10/17/2023
Date Of Sampling:
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
1		1-1		Brown Carpet	Y	None Detected	60% sy	40% qu, ma
2		2-1		Brown Carpet	Y	None Detected	60% sy	40% qu, ma
3		3-1		Tan Floor Tile	Y	None Detected		100% qu, ca
4		4-1		Tan Floor Tile	Y	None Detected		100% qu, ca
5		5-1		Gray Carpet	Y	None Detected	80% sy	20% qu, ma
6		6-1		Gray Carpet	Y	None Detected	80% sy	20% qu, ma
7		7-1		Tan Floor Tile	Y	None Detected		100% qu, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

Identification of asbestos types by dispersion staining / becke line method.

- | | | | |
|-----------------|------------------|-------------------|--------------------------|
| ca - carbonate | ml - mica | fg - fiberglass | ce - cellulose |
| gypsur - gypsum | ve - vermiculite | mw - mineral wool | br - brucite |
| bl - binder | ot - other | wc - wollastinite | ka - kaolin (clay) |
| or - organic | pe - perlite | ta - talc | pa - palygorskite (clay) |
| ma - matrix | qu - quartz | sy - synthetic | |

Approved Signatories:

Chris Williams
Chris Williams
Analyst

Alicia Stretz
Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damage affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation or vermiculite for possible analysis by another method
9. < 1% Result (total) counted positive
10. TEM analysis suggested

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Scott Comish
Shafer & Associates
510 University Drive
Starkville, MS 39759

Customer Project:
Hothorn Hall Flooring

CA Labs Project #:
CBR23108020

Date: 10/18/2023

Turnaround Time: 2 day

Samples Received: 10/17/2023

Phone # 662-323-1628

Date Of Sampling:

Fax # 662-324-8239

Purchase Order #:

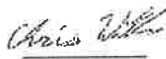
Sample #	Com mont	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		7-2		Tan Mastic	Y	None Detected		100% qu, bi
8		8-1		Tan Floor Tile	Y	None Detected		100% qu, ca
9	10	9-1		Brown Stairtread	Y	None Detected		100% qu, ma
10	10	10-1		Brown Stairtread	Y	None Detected		100% qu, ma
11		11-1		White Floor Tile	Y	None Detected		100% qu, ca
		11 2		Tan Mastic	Y	None Detected	2% ce	98% qu, bi
12		12 1		Gray Carpet	Y	None Detected	60% sy	40% qu, ma

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	ml - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	va - vermiculite	mw - mineral wool	br - brucite
li - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:


Chris Williams
Analyst


Senior Analyst
Alicia Stretz

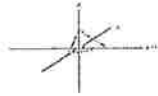
Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damage affecting fibers percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive fiber and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-19111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Scott Comish
Shafer & Associates
510 University Drive
Starkville, MS 39759

Customer Project:
Hothorn Hall Flooring

CA Labs Project #:
CBR23108020

Phone # 662-323-1628
Fax # 662-324-8239

Turnaround Time: 2 day

Date: 10/18/2023
Samples Received: 10/17/2023
Date Of Sampling:
Purchase Order #:

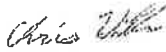
Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- gonco us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
13		13-1		Tan Floor Tile	Y	None Detected		100% qu, ca
		5		13-2 Tan Mastic	Y			
14		14-1		Tan Floor Tile	Y	None Detected		100% qu, ca
		5		14-2 Tan Mastic	Y			
15		15-1		Tan Floor Tile	Y	None Detected		100% qu, ca
		5		15-2 Tan Mastic	Y			
16		16-1		Brown Carpet	Y	None Detected	60% sy	40% qu, ma

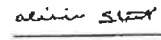
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

Identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	ml - mica	fg - fiberglass	ca - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bl - bladder	ul - uller	wo - wollastinite	ka - kaolin (clay)
or - organio	po - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:


Chris Williams
Analyst


Senior Analyst
Allcia Stretz

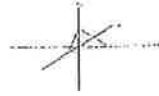
Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damage affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Scott Comish
Safer & Associates
510 University Drive
Starkville, MS 39759

Customer Project:
Hothorn Hall Flooring

CA Labs Project #:
GBR23108020

Turnaround Time: 2 day

Date: 10/18/2023
Samples Received: 10/17/2023

Phone # 662-323-1628
Fax # 662-324-8239

Date Of Sampling:
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- gonco us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
17		17-1	Brown Carpet	Y	None Detected	60% sy	40% qu, ma
18		10-1	Off-White Floor Tile	Y	None Detected		100% qu, ca
19		19-1	Off-White Floor Tile	Y	None Detected		100% qu, ca
20		20-1	Green Carpet	Y	None Detected	85% sy	15% qu, ma
21		21-1	Green Carpet	Y	None Detected	85% sy	15% qu, ma
22		22-1	Green Carpet	Y	None Detected	85% sy	15% qu, ma
23		23-1	Green Carpet	Y	None Detected	85% sy	15% qu, ma

Analysis Method: Interim (40CFR Part 763 Appendix E (o Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, all immersion for

Identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulosa
gypsur - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bl - bladder	ot - other	wu - wollastonite	ka - kaolin (clay)
or - organic	pa - perlite	tu - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Chris Williams
Analyst

Senior Analyst
Alicia Stretz

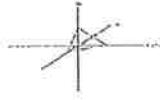
Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage reported percentages reflect smaller fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinofite in association with Vermiculite
4. Layer not analyzed - Attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Amphibolyite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result, point counted possible
10. TFM analysis suggested

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Polarized Light Asbestiform Materials Characterization

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CA Labs Project #:
CBR23108020

Date: 10/18/2023

Turnaround Time: 2 day

Samples Received: 10/17/2023

Phone # 662-323-1628

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Date Of Sampling:

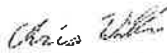
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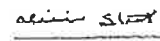
Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- gonous us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
24		24-1		Green Carpet	Y	None Detected	85% sy	15% qu, ma
25		25-1		Green Carpet	Y	None Detected	85% sy	15% qu, ma
26		26-1		Tan Floor Tile	Y	6% Chrysotile		94% qu, ma, ca
27		27-1		White Floor Tile	Y	None Detected		100% qu, ca
10		27-2		Black Mastic	Y	None Detected		100% qu, bi
28		28-1		Gray Carpet	Y	None Detected	85% sy	15% qu, ma
29		29-1		White Floor Tile	Y	None Detected		100% qu, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / backscattered light method.

ca - carbonate	ml - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	vt - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - oil/urea	wo - wollastonite	ka - kaolin (clay)
or - organic	po - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:


Chris Williams
Analyst


Senior Analyst
Alicia Stretz

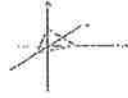
Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damage affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Amphibolyite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result panel reported positive
10. TEM analysis suggested

CA Labs
Dedicated to
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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Scott Comish
Shafer & Associates
510 University Drive
Starkville, MS 39759

Customer Project:
Hothorn Hall Flooring

CA Labs Project #:
CBR23108020

Turnaround Time: 2 day

Date: 10/18/2023
Samples Received: 10/17/2023
Date Of Sampling:
Purchase Order #:

Phone # 662-323-1628
Fax # 662-324-8239

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
30		30-1		White Floor Tile	Y	None Detected		100% qu, ca
		30-2		Tan Mastic	Y	None Detected		100% qu, bi
31		31-1		Brown Carpet	Y	None Detected	60% sy	40% qu, ma
32		32-1		Brown Carpet	Y	None Detected	60% sy	40% qu, ma
33		33-1		Gray Plaster	Y	None Detected		100% qu, ca, ma
34		34-1		Gray Plaster	Y	None Detected		100% qu, ca, ma
35		35-1		White Floor Tile	Y	None Detected		100% qu, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for
Identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	ml - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	va - vermiculite	mw - mineral wool	br - brucite
bl - binder	ot - other	wa - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Chris Williams
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage insignificant fiber damage affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result print counted positive
10. TEM analysis suggested

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TDSHS #300370
CDPHE #AL-18111
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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Scott Comish
Shafer & Associates
510 University Drive
Starkville, MS 39759

Customer Project:
Hothorn Hall Flooring

CA Labs Project #:
CBR23108020

Phone # 662-323-1628
Fax # 662-324-8239

Turnaround Time: 2 day

Date: 10/18/2023
Samples Received: 10/17/2023

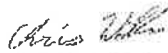
Date Of Sampling:
Purchase Order #:

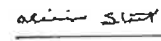
Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
36		36-1	Green Carpet	Y	None Detected	85% sy	15% qu, ma
37		37-1	Off-White Floor Tile	Y	None Detected		100% qu, ca
38		38-1	Green Carpet	Y	None Detected	85% sy	15% qu, ma
39		39-1	Brown Floor Tile	Y	None Detected		100% qu, ca
		39-2	Tan Mastic	Y	None Detected		100% qu, bi
40		40-1	Tan Mastic	Y	None Detected		100% qu, bi
		40-2	Tan Leveling Plaster	Y	None Detected		100% qu, ca, ma

Analysis Method: Interim (40CFR Part 783 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	ni - mica	lg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pc - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:


Chris Williams
Analyst


Senior Analyst
Allecia Stretz

Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damage affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Baton Rouge, LA 70809
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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Scott Comish
Shafer & Associates
510 University Drive
Starkville, MS 39759

Customer Project:
Holthorn Hall Flooring

CA Labs Project #:
CBR23108020

Date: 10/18/2023
Samples Received: 10/17/2023
Date Of Sampling:
Purchase Order #:

Phone # 662-323-1628
Fax # 662-324-8239

Turnaround Time: 2 day

Sample #	Com ment	Layer #	Analysis Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
41		41-1	Gray Carpet	Y	None Detected	85% sy	15% qu, ma
42		42-1	Gray Carpet	Y	None Detected	85% sy	15% qu, ma
43		43-1	Green Floor Tile	Y	None Detected		100% qu, ca
		43-2	Tan Mastic	Y	None Detected		100% qu, bi
44		44-1	Green Floor Tile	Y	None Detected		100% qu, ca
5		44-2	Tan Mastic	Y			
45		45-1	Green Floor Tile	Y	None Detected		100% qu, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, all immersion for
identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	vo - vermiculite	mw - mineral wool	br - brucite
bl - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
mx - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Chris Williams
Chris Williams
Analyst

Alicia Stretz
Senior Analyst
Alicia Stretz

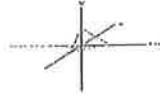
Laboratory Director
Chris Williams

1. Fibre Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fibre Damage no significant fiber damage affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and confirmation is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Phone 225-751-5632
Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Scott Cornish
Shafer & Associates
510 University Drive
Starkville, MS 39759

Customer Project:
Hothorn Hall Flooring

CA Labs Project #:
CBR23108020

Date: 10/18/2023

Turnaround Time: 2 day

Samples Received: 10/17/2023

Phone # 662-323-1628

Date Of Sampling:

Fax # 662-324-8239

Purchase Order #:

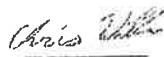
Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
5		45-2		Tan Mastic	Y			
46		46-1		Tan Floor Tile	Y	6% Chrysotile		94% qu, ma, ca
		46-2		Black Mastic	Y	5% Chrysotile		95% qu, bi
47		47-1		Tan Floor Tile	Y	6% Chrysotile		94% qu, ma, ca
		47-2		Black Mastic	Y	5% Chrysotile		95% qu, bi
48		48-1		Tan Floor Tile	Y	6% Chrysotile		94% qu, ma, ca
		48-2		Black Mastic	Y	5% Chrysotile		95% qu, bi

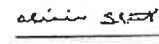
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/118)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

Identification of asbestos types by dispersion staining / backscat (line) method.

ca - carbonate	ml - mica	lg - filterglass	ce - cellulose
gypsur - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bl - binder	ot - other	wc - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - ta'o	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:


Chris Williams
Analyst


Senior Analyst
Alicia Stretz

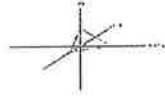
Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damage affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Ta'o
7. Contamination suspected from other building material
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEN analysis suggested

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NVLAP #200772-0
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CDPHE #AL-18111
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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Scott Comish
Shafer & Associates
510 University Drive
Starkville, MS 39759

Customer Project:
Hothorn Hall Flooring

CA Labs Project #:
CBR23108020

Date: 10/18/2023

Turnaround Time: 2 day

Samples Received: 10/17/2023

Phone # 662-323-1628

Date Of Sampling:

Fax # 662-324-8239

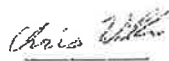
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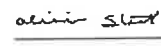
Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
49		49-1		Brown Carpet	Y	None Detected	60% sy	40% qu, ma
50		50-1		Black Mastic	Y	None Detected	2% ce	98% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for
identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:


Chris Williams
Analyst


Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damage affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable outcome for water separation on vermiculite for possible analysis by another method
9. < 1% Result count counted positive
10. TEM analysis suggested

State of Mississippi

*Department of Environmental Quality
Office of Pollution Control*

Certificate of Licensure

In accordance with the Asbestos Abatement Accreditation and Certification Act,
Enacted as 1989 Mississippi Law, Chapter 505

Be it known that

Scott Comish

Having submitted acceptable evidence of qualifications and
training and other appropriate information, is hereby granted this

Asbestos Inspector

Certification



Chief, Asbestos & Lead Branch

***Certificate No.: ABI-00006892
Expiration Date: Feb 15th, 2024
Training Expires on Feb 15th, 2024***

40829 LIC20230001

CERTIFICATE OF COMPLETION

Center for Continuing Education

Scott Comish

XXX-XX-9870

has attended and satisfactorily completed course exam with a passing score of 70% or better
Asbestos Inspection & Assessment Refresher

Accreditation



MISSISSIPPI STATE
UNIVERSITY

EXTENSION

ASBR-04-021523-01

COURSE NUMBER

2/15/24

EXPIRATION DATE

Matt Thomas

COURSE INSTRUCTOR

2/15/23

EXPIRATION DATE

Richard Swann

COURSE DIRECTOR

2/15/23

COURSE DATE(S)



MSBEQ Accredited Training Provider