

April 10, 2023

Lewisville Independent School District 340 Lake Haven Lewisville, Texas 75057 Attn: David Treadway

Re: Limited Mold Assessment

Ethridge Elementary School - Rooms A16, A17, Art Room

6001 Ethridge Drive The Colony, TX 75056

Ensolum Project No. 01A1288187

Ensolum, LLC (Ensolum) was retained to perform limited mold assessment services within the Ethridge Elementary School (Rooms A16, A17, and Art Room) located at 6001 Ethridge Drive in The Colony, Texas. Enclosed is the report, including analytical data.

Ensolum appreciates this opportunity to be of service and looks forward to our continued work together. Please contact the undersigned with any questions or concerns you may have.

Sincerely,

Darren G. Bowden

Principal

MAC0321 EXP: 2/15/2024

1.0 INTRODUCTION

Ensolum was retained by David Treadway, LISD, to complete a Limited Mold Assessment within the Ethridge Elementary School (Rooms A16, A17, and Art Room) located at 6001 Ethridge Drive in The Colony, Texas. The purpose of this investigation was to determine if elevated concentrations of airborne fungal spores and structures were present within the above-referenced areas. Ensolum completed the on-site investigation on April 5, 2023. The Limited Mold Assessment was performed in response to a complaint of possible indoor air quality issues within specific areas.

2.0 PROCEDURE

Ensolum visually inspected accessible areas of the Rooms A16, A17, and Art Room area. Water damage or odors were observed in the following locations:

VISIBLE WATER DAMAGE							
LOCATION	DATE	EXPLANATION					
Classroom A16	4/5/2023	Leaky pipe above ceiling on sink wall 10' x 15' wet sheetrock.					

Following the inspection of potential water-damaged building materials, Ensolum conducted a moisture investigation in the identified areas to determine if nonvisible water-damaged materials and other building materials within the investigation area were present. The moisture investigation was completed with a GE Protimeter BLD5364 moisture meter on accessible porous and semi-porous building materials in each area of concern. At the time of investigation, monitored building materials did not exhibit elevated moisture concentrations in comparison with similar and non-affected building materials in the structure and standard scientific guidelines.

Representative Relative Humidity readings were collected and recorded using an Extech Instruments Humidity / Temperature Pen. Measurements recorded during the investigation are listed in the chart below:

TEMPERATURE, RELATIVE HUMIDITY & SPECIFIC HUMIDITY							
LOCATION	DATE	Temperature: F	Relative Humidity	Specific Humidity			
Exterior, South	4/5/2023	54°	36%	22%			
Exterior, North	4/5/2023	53°	38%	23%			
Classroom A16	4/5/2023	66°	51%	48%			
Classroom A17	4/5/2023	68°	50%	57%			
Art Room	4/5/2023	71°	50%	56%			

Area air samples were collected with Allergenco-D spore trap cassettes and analyzed for airborne fungal spores and structures. Samples were collected at a rate of 15 liters per minute. Indoor air sample(s) were collected for a five (5) minute period (75 liters) at a height of approximately five (5) feet above finished floor (AFF). Outdoor air samples were collected for a five (5) minutes period (75 liters) at a height of approximately five (5) feet above level ground. American Conference of Governmental Industrial Hygienists (ACGIH) guidelines were followed for the sample collection. Fungal air samples were collected in the following areas:

SPORE TRAP LOCATIONS					
SAMPLE NUMBER LOCATION					
1	Exterior, South				
2	Exterior, North				
3	Classroom A16				
4	Classroom A17				
5	Art Room				

3.0 RESULTS

Currently, there are no regulatory standards for airborne fungal contamination. Therefore, results of the fungal analysis are compared against scientific guidelines. Bioaerosol samples are evaluated by comparing the indoor samples against the outdoor sample. The same types of fungi should be found in both the indoor and outdoor samples.

Should higher fungal concentrations occur in the indoor sample(s) or complaint areas, this generally indicates there is a source of fungal growth in the area. The types of fungi are also evaluated-the same types/genus of fungi should be present in both the indoor/complaint and outdoor/non-complaint samples.

The results of the fungal air samples collected were evaluated. Air testing performed using spore traps found that airborne mold spores in the rooms were considerably lower and were qualitatively similar to those measured outside of the building at the time the sampling was performed. Total fungal spore concentration within the investigation area ranged from 626 to 1,519 counts/m³, while the exterior level ranged from 3,631 to 4,053 counts/m³. However, specific types of mold was identified in higher concentrations inside the rooms as compared to the exterior of the building.

Room A16 - Two (2) types of mold spores were reported at higher concentrations inside the classroom as compared to the exterior of the building. Stachybotrys and Curvularia was reported as 13 spores/m³ while no spores were identified in the exterior samples.

Room A17 - Two (2) types of mold spores were reported at higher concentrations inside the classroom as compared to the exterior of the building. Aspergillus/Penicillium was reported as 760 spores/m³ while exterior concentrations were reported at 467 spores/m³. Epicoccum was reported as 13 spores/m³ while no spores were identified in the exterior samples.

Art Room - Two (2) types of mold spores were reported at higher concentrations inside the classroom as compared to the exterior of the building. Stachybotrys 13 spores/m³ and Curvularia was reported as 13 spores/m³ while no spores were identified in the exterior samples.

CONCLUSIONS

Ensolum recommends that the wall containing elevated moisture reading be removed. In addition, the rooms should be cleaned and addition testing performed.

APPENDIX A

ANALYTICAL RESULTS



Summary

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

Page 1 of 4

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client:

Ensolum, LLC

Project:

Ethridge ES, Classrooms A16, A17 & Art Room

Project #:

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

01A 1288187

Spore Trap Type: Zefon - Air-O-Cell

Lab Job No.: 23F-03972

Report Date: 04/05/2023

Sample Date: 04/05/2023

On 4/5/2023, five (5) samples were submitted by a representative of Ensolum, LLC (located at 8330 LBJ Freeway, Suite 830 8330 LBJ Freeway, Suite 830, Dallas, TX 75243) for Spore Trap, Non-cultured mold analysis. This report consists of three sections; a summary section,

a data detail section, and an analytical notes section.

Sample Number	Volume (liters)	Sample Description	Identification	Concer spores/cu	ntration bic meter
1	75	Exterior, South * See Analytical Notes report for further details	Cladosporium Aspergillus / Penicillium Hyphal / Spore Fragments - Dematiaceous Alternaria Myxomycete / Periconia / Rust / Smut Basidiospores	2057 440 307 280 160 107 107	57% 12% 8% 8% 4% 3% 3%
			Ascospores Hyphal / Spore Fragments - Hyaline Cercospora / Pseudocercospora Coprinus group Torula Drechslera / Bipolaris / Helminthosporum / Exserohilum group	80 40 27 13 13	2% 1% <1% <1% <1%
			Total:	3631	100%



Summary

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client:

Ensolum, LLC

Project:

Ethridge ES, Classrooms A16, A17 & Art Room

Project #:

01A 1288187

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

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Page 2 of 4

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Sample Number Volume (liters)		Sample Description	Identification	Concentration spores/cubic me		
2	75	Exterior, North	Cladosporium	2080	51%	
		* See Analytical Notes report for	Aspergillus / Penicillium	467	12%	
		further details	Hyphal / Spore Fragments - Dematiaceous	440	11%	
			Alternaria	280	7%	
			Basidiospores	227	6%	
			Myxomycete / Periconia / Rust / Smut	173	4%	
			Ascospores	147	4%	
			Coprinus group	93	2%	
			Hyphal / Spore Fragments - Hyaline	53	1%	
			Chaetomium	40	<1%	
			Fusarium	27	<1%	
			Cercospora / Pseudocercospora	13	<1%	
			Torula	13	<1%	
			Total:	4053	100%	
3	75	Classroom A16	Aspergillus / Penicillium	427	47%	
			Cladosporium	227	25%	
			Basidiospores	80	9%	
			Hyphal / Spore Fragments - Dematiaceous	67	7%	
			Myxomycete / Periconia / Rust / Smut	27	3%	
			Stachybotrys	13	1%	
			Drechslera / Bipolaris / Helminthosporum / Exserohilum group	13	1%	
			Curvularia	13	1%	
			Chaetomium	13	1%	
			Ascospores	13	1%	
			Alternaria	13	1%	
			Total:	906	100%	



Summary

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

2051 Valley View Lane

Project:

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client: Ensolum, LLC

Ethridge ES, Classrooms A16, A17 & Art Room

Project #: 01A 1288187

Sample Type: Spore Trap, Non-cultured

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Page 3 of 4

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Sample Number Volume (liters)		Sample Description	Identification	Concentration		
4	75	Classroom A17	Aspergillus / Penicillium	760	50%	
			Cladosporium	253	17%	
			Basidiospores	160	11%	
			Hyphal / Spore Fragments - Dematiaceous	147	10%	
			Alternaria	120	8%	
			Myxomycete / Periconia / Rust / Smut	40	3%	
			Epicoccum	13	<1%	
			Curvularia	13	<1%	
			Chaetomium	13	<1%	
			Total:	1519	100%	
5	75	Art Room	Cladosporium	160	26%	
			Aspergillus / Penicillium	160	26%	
			Hyphal / Spore Fragments - Dematiaceous	107	17%	
			Alternaria	53	8%	
			Basidiospores	40	6%	
			Drechslera / Bipolaris / Helminthosporum / Exserohilum group	27	4%	
			Ascospores	27	4%	
			Myxomycete / Periconia / Rust / Smut	13	2%	
			Stachybotrys	13	2%	
			Curvularia	13	2%	
			Chaetomium	13	2%	
			Total:	626	100%	



Summary

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client: Ensolum, LLC

Project: Ethridge ES, Classrooms A16, A17 & Art Room

Project #: 01A 1288187

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No.: 23F-03972

Report Date: 04/05/2023

Sample Date: 04/05/2023

Spore Trap Type: Zefon - Air-O-Cell

Page 4 of 4

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This report shall not be reproduced except in full, without approval of the laboratory. Data contained in this test report relates only to the samples tested. This report does not express or imply interpretation of the results contained herein. Interpretation should be made by a qualified professional. Moody Labs assumes no responsibility for the manner in which these samples were collected or handled prior to being received at this laboratory. Volume, area, and/or weight is provided by the customer. Moody Labs assumes no responsibility for the qualifications of personnel performing sampling and/or interpretations of this data.

Thank you for choosing Moody Labs

Analyst(s): Ashe Udie

Lab Director: Heather Lopez

Lab Director: Bruce Crabb

End of Summary section (23F-03972)

Approved Signatory: Bene Call



Data Detail

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client:

Ensolum, LLC

Project:

Project #:

01A 1288187

Test Method: Mold: MLQ - 0112 - Standard Profile

Sample Type: Spore Trap, Non-cultured

Ethridge ES, Classrooms A16, A17 & Art Room

Lab Job No.: 23F-03972 Report Date: 04/05/2023

Sample Date: 04/05/2023

Page 1 of 2

TDLR License No.: LAB0117

AIHA EMPAT ID: 102577

Spore Trap Type: Zefon - Air-O-Cell

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full. Sample ID: 3 Exterior, South Exterior, North Classroom A16 Location: Media Expires On: Jan 2024 Jan 2024 Jan 2024 Notes included: See Analytical Notes See Analytical Notes 75 Volume: 75 Raw Ct RL spores/m³ %Total spores/m³ SF Raw Ct RL spores/m³ %Total spores/m³ SF Raw Ct RL spores/m³ %Total spores/m³ SF 280 13 10 21 13 280 8% 280 21 13 280 13 1% Alternaria 7% 1 13 4% 150 13 13 1% 10 Ascospores 8 13 107 3% 100 11 147 1 33 13 440 12% 440 13 12% 470 13 427 47% 430 Aspergillus / Penicillium 35 467 32 13 227 6% 230 13 80 9% 80 Basidiospores 8 13 107 3% 100 17 6 Cercospora / Pseudocercospora 3 13 40 1% 40 1 13 13 <1% 10 40 10 Chaetomium 3 13 40 <1% 13 13 1% 1 2100 227 230 2100 2080 13 25% Cladosporium 108 19 2057 57% 104 20 51% 17 Coprinus group 2 13 27 <1% 30 7 13 93 2% 90 13 1% 10 Curvularia 1 13 10 Drechslera / Bipolaris / Helminthosporum / 1 13 13 <1% 10 1 13 13 1% Epicoccum Fusarium 13 27 <1% 30 2 11% 440 70 Hyphal / Spore Fragments - Dematiaceou 23 13 307 8% 310 33 13 440 5 13 67 7% 6 13 1% 50 Hyphal / Spore Fragments - Hyaline 80 2% 80 4 13 53 Myxomycete / Periconia / Rust / Smut 12 160 13 173 4% 170 27 3% 30 13 160 4% 13 2 13 Stachybotrys 1 13 13 1% 10 13 <1% 10 13 13 <1% 10 Torula 13 1 1 906 100% 3600 4053 100% 4100 910 **TOTALS** 226 3631 100% 252 68 Analyst Ashe Udie Ashe Udie Ashe Udie 4/5/2023 Analysis Date 4/5/2023 4/5/2023 3 4 Debris Rating 3 Debris Composition 3/5 Fibers 2/5 1/5 Inorganic/Other 3/5 3/5 2/5 Insect Parts 0/5 0/5 0/5 1/5 2/5 2/5 Pollen Skin/Dander 1/5 1/5 4/5



Data Detail

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client: Ensolum, LLC

Project: Ethridge ES, Classrooms A16, A17 & Art Room

Project #: 01A 1288187

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

AIHA EMPAT ID: 102577

TDLR License No.: LAB0117

Lab Job No.: 23F-03972

Report Date: 04/05/2023

Sample Date: 04/05/2023 Page 2 of 2

Spore Trap Type: Zefon - Air-O-Cell

Sample ID:			4				5						
Location:			Classroo	m A17		Art Room							
Media Expires On:			Jan 2	024		Jan 2024							
Notes Included:													
Volume:			75			75							
	Raw Ct	RL	spores/m³	%Total	spores/m³ SF	Raw Ct	RL	spores/m³	%Total	spores/m³ SF			
Alternaria	9	13	120	8%	120	4	13	53	8%	50		1000	
Ascospores						2	13	27	4%	30			
Aspergillus / Penicillium	57	13	760	50%	760	12	13	160	26%	160			
Basidiospores	12	13	160	11%	160	3	13	40	6%	40			
Cercospora / Pseudocercospora				100									
Chaetomium	1	13	13	<1%	10	1	13	13	2%	10			
Cladosporium	19	13	253	17%	250	12	13	160	26%	160			
Coprinus group												77.55	
Curvularia	1	13	13	<1%	10	1	13	13	2%	10			
Drechslera / Bipolaris / Helminthosporum /						2	13	27	4%	30			
Epicoccum	1	13	13	<1%	10								
Fusarium													
Hyphal / Spore Fragments - Dematiaceou	11	13	147	10%	150	8	13	107	17%	100			
Hyphal / Spore Fragments - Hyaline													
Myxomycete / Periconia / Rust / Smut	3	13	40	3%	40	1	13	13	2%	10			
Stachybotrys						1	13	13	2%	10			
Torula													
TOTALS	114		1519	100%	1500	47		626	100%	630	Church Holde Strip		
Analyst			Ashe	Udie				Ashe l	Jdie				
Analysis Date			4/5/2	023				4/5/20	023				
Debris Rating			4					3					
Debris Composition													
Fibers			3/	5				2/5	5				
Inorganic/Other			2/	5				2/5	5				
Insect Parts			0/	5				0/5	5				
Pollen			1/	5				1/5	5				
Skin/Dander			4/	5				3/5					

End of Data Detail section 23F-03972

SMLMS v13.73



Analytical Notes

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client: Ensolum, LLC

Project: Ethridge ES, Classrooms A16, A17 & Art Room

Project #: 01A 1288187

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

Spore Trap Type: Zefon - Air-O-Cell

Lab Job No.: 23F-03972

Report Date: 04/05/2023

Sample Date: 04/05/2023

TDLR License No.: LAB0117

AIHA EMPAT ID: 102577

Page 1 of 2

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.

Samples Analyzed

Sample No

1: Exterior, South

Notes:

Please note: the minimum reporting limit for Cladosporium is 19 spores / cubic meter. When comparing

results to other samples, use calculated results, not raw numbers.

Sample No

2: Exterior, North

Notes:

Please note: the minimum reporting limit for Cladosporium is 20 spores / cubic meter. When comparing

results to other samples, use calculated results, not raw numbers.

Field Blanks

No discernable field blanks were submitted with this set of samples.

NOTE: All remaining samples suitable for analysis.

Methods

Method: MLQ - 0112 / ASTM D7391: Categorization and Quantification of Airborne Fungal Structures in an Inertial Impaction.

Sample by Optical Microscopy.

Samples are read at 100% under 400x magnification unless noted. Partial readings may be employed when concentrations are elevated. Use final spore concentrations, not raw spore counts, for interpretation of results.

Calculation: Spores/cubic meter = (Raw spore count)*(RL)

Note: RL (Reporting Limit) is based upon 1 raw spore count.

Moody Labs recommends two significant figures for calculated values based on ASTM D7391.

This report must not be used by the customer to claim product certification, approval, or endorsement by AIHA, ISO, or any agency of the Federal Government.

Debris Rating Key

- 0 No linear trace detected
- 1 Trace particulate/debris
- 2 Light particulate/debris
- 3 Moderate particulate/debris
- 4 Substantial particulate/debris
- 5 Extensive particulate/debris
- 6 Field blank
- 10 Hold Sample
- 11 Modified Analysis per Client Instructions

NOTE: Particulate/debris are defined as skin, fibers, pollen grains, insect parts, fungal and/or other non-fungal particles.

SMLMS v13.73



Analytical Notes

2051 Valley View Lane

Client:

Farmers Branch, TX 75234 Phone: (972) 241-8460

Ensolum, LLC

Project: Ethridge ES, Classrooms A16, A17 & Art Room

Project #: 01A 1288187

Test Method: Mold: MLQ - 0112 - Standard Profile

Sample Type: Spore Trap, Non-cultured Spore Trap Type: Zefon - Air-O-Cell

Page 2 of 2

Lab Job No.: 23F-03972

Report Date: 04/05/2023

Sample Date: 04/05/2023

TDLR License No.: LAB0117

AIHA EMPAT ID: 102577

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Lab 10 # 102571





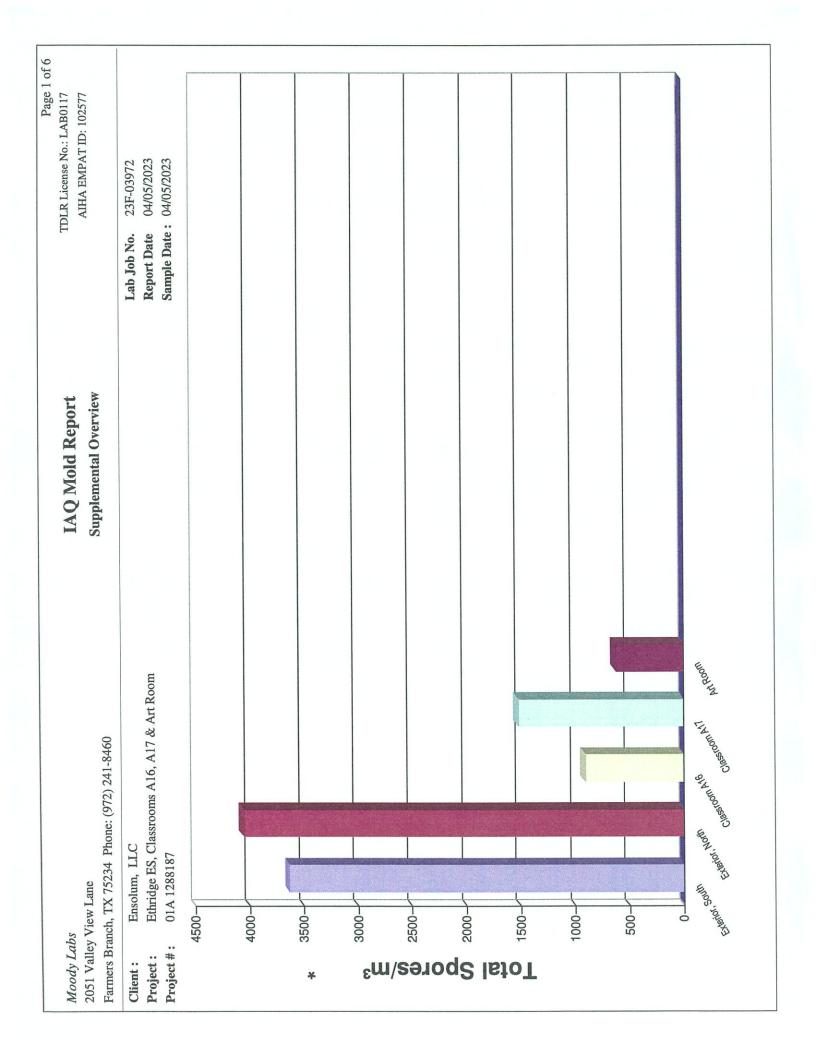






End of Analytical Notes section 23F-03972





TDLR License No.: LAB0117 **AIHA EMPAT ID: 102577** 04/05/2023 04/05/2023 23F-03972 Sample Date: Lab Job No. Report Date ☐ Average Reference 2 Torula Average Reference 2 = Exterior, North Stachybotrys Myxomycete / Periconia / Rust / Smut Supplemental Overview IAQ Mold Report Hyphal / Spore Fragments - Hyaline Hyphal / Spore Fragments - Dematiaceous Exterior, South Fusarium Average Reference 1 Epicoccum Exserohilum group Drechslera / Bipolaris / Helminthosporum / Curvularia Coprinus group Ethridge ES, Classrooms A16, A17 & Art Room Cladosporium Farmers Branch, TX 75234 Phone: (972) 241-8460 Chaetomium Sample Sample Cercospora / Pseudocercospora Average Reference 1 = Exterior, South Basidiospores Ensolum, LLC 01A 1288187 Aspergillus / Penicillium 2051 Valley View Lane Ascospores Alternaria Project #: Project: Client: 200 0 2500 2000 1500 1000

Page 3 of 6 TDLR License No.: LAB0117 AIHA EMPAT ID: 102577 04/05/2023 Sample Date: 04/05/2023 23F-03972 Report Date Lab Job No. ☐ Average Reference 2 Torula Average Reference 2 = Exterior, North Stachybotrys Myxomycete / Periconia / Rust / Smut Supplemental Overview IAQ Mold Report Hyphal / Spore Fragments - Hyaline Hyphal / Spore Fragments - Dematiaceous Exterior, North Fusarium Average Reference 1 Epicoccum Exserohilum group Drechslera / Bipolaris / Helminthosporum / Curvularia Coprinus group Ethridge ES, Classrooms A16, A17 & Art Room Cladosporium Chaetomium Farmers Branch, TX 75234 Phone: (972) 241-8460 Sample Cercospora / Pseudocercospora Average Reference 1 = Exterior, South Basidiospores Ensolum, LLC 01A 1288187 Aspergillus / Penicillium 2051 Valley View Lane Ascospores Alternaria Project #: Project: Client: 0 2500 2000 1500 1000 500

Page 4 of 6 TDLR License No.: LAB0117 AIHA EMPAT ID: 102577 04/05/2023 Sample Date: 04/05/2023 23F-03972 Report Date Lab Job No. ☐ Average Reference 2 Torula Average Reference 2 = Exterior, North Stachybotrys Myxomycete / Periconia / Rust / Smut Supplemental Overview IAQ Mold Report Hyphal / Spore Fragments - Hyaline Hyphal / Spore Fragments - Dematiaceous Classroom A16 Fusarium Average Reference 1 Epicoccum Exserohilum group Drechslera / Bipolaris / Helminthosporum / Curvularia Coprinus group Ethridge ES, Classrooms A16, A17 & Art Room Cladosporium Chaetomium Farmers Branch, TX 75234 Phone: (972) 241-8460 Sample Sample Cercospora / Pseudocercospora Average Reference 1 = Exterior, South Basidiospores Ensolum, LLC 01A 1288187 Aspergillus / Penicillium 2051 Valley View Lane Ascospores Alternaria Project #: Project: Client: 2500 500 2000 1500 1000 0

Page 5 of 6 TDLR License No.: LAB0117 AIHA EMPAT ID: 102577 04/05/2023 Sample Date: 04/05/2023 23F-03972 Report Date Lab Job No. ☐ Average Reference 2 Torula Average Reference 2 = Exterior, North Stachybotrys Myxomycete / Periconia / Rust / Smut Supplemental Overview IAQ Mold Report Hyphal / Spore Fragments - Hyaline Hyphal / Spore Fragments - Dematiaceous Classroom A17 Fusarium Average Reference 1 Epicoccum Exserohilum group Drechslera / Bipolaris / Helminthosporum / Curvularia Coprinus group Ethridge ES, Classrooms A16, A17 & Art Room Cladosporium Chaetomium Farmers Branch, TX 75234 Phone: (972) 241-8460 Sample Cercospora / Pseudocercospora Average Reference 1 = Exterior, South Basidiospores Ensolum, LLC 01A 1288187 Aspergillus / Penicillium 2051 Valley View Lane Ascospores Alternaria Project #: Project: Client: 2500 2000 1500 1000 200

Page 6 of 6 TDLR License No.: LAB0117 AIHA EMPAT ID: 102577 04/05/2023 Sample Date: 04/05/2023 23F-03972 Report Date Lab Job No. ☐ Average Reference 2 Torula Average Reference 2 = Exterior, North Stachybotrys Myxomycete / Periconia / Rust / Smut Supplemental Overview IAQ Mold Report Hyphal / Spore Fragments - Hyaline Hyphal / Spore Fragments - Dematiaceous Fusarium Average Reference 1 Epicoccum Exserohilum group Drechslera / Bipolaris / Helminthosporum / Curvularia Coprinus group Ethridge ES, Classrooms A16, A17 & Art Room Cladosporium Chaetomium Farmers Branch, TX 75234 Phone: (972) 241-8460 Sample Cercospora / Pseudocercospora Average Reference 1 = Exterior, South Basidiospores End of Supplemental Overview section (23F-03972) Ensolum, LLC 01A 1288187 Aspergillus / Penicillium 2051 Valley View Lane Ascospores Alternaria Project #: Project: Client: 500 2500 2000 1500 1000 0



Chain of Custody

Lab Job #	23 F - 03972
Lab Job #	SH. AOC. S
Lab Job #	

	HOURS / WEEKEND WORK: [] 'in advance for after hours / immediate pricing			!	Page <u>1</u> of <u>/</u>
SBESTOS PLI	4		MOLD		
CM Air (740)	mmediate 1 day 2 da Analyza Ali } 	Positive Stop y □ 3 day □ 5 day	Direct Exa Standard Expanded Culture** TPC w/ Ye	Air Immed Air Immed Immediately.	1 day 2 day 5 day 1 day 2 day 5 day 1 day 2 day 5 day 10-14 days 5 day
TOTAL DUST	•		Analyze Bla	nks 🗆 Yes 🔻	No
Air 7402 (Mod Bulk Water/Wipe/N Analyze Blan	## thod □ Late Night* □ 6 hr diffied) □ 1 day □ 2 da □ No	12 hr 24 hr y 3 day y 3 day 5 day y 3 day 5 day	Coliform 8 Staphyloc **Please	analytical requ	
Billing Compa	eny / City: Enselum	LLC Della	<u>*</u> # of	f Samples:5S	ample Date: 415 12023
Project: Eff	ersage ES Chassroom	MS AIL, AIR	Art Room	Project #:	OINIZABIBT
Contact Info	rmation: Name: Clint	Sech		Phone #:	(922) 989-1081
	to: Clint / Barren ss: tmartin@en		949	Mobile #: P.O. #:	
Notes: Sample #	Sample Desc	b. Unscaled / Improperly package	Vol. / Area (if applicable)	Location	ive requests rany incur additional feas*
1	Exterior, South		75	T: 54 " H = 36	1. SH= 22 1.
2	Exterior, North		75	T= 53 °H= 38	1. SH = 23 /
3	Classroom Alb		7-5	T= 66 0H= 5 M= 11. 22 1/.	1. SH= 48 1.
		· · · · · · · · · · · · · · · · · · ·			
1			1	See Note:	
4	Classroom A17		75		1. sH= 57 %
4	Classroom A17		75	T= 68 ° H= 50	•
5	Classroom A17 ART Room		75	T= 68 ° H= 50 M= 10 - 12 ·/ Nh=: V; (1), D= 51 T= 71 ° H= 50	•
				T= 68 ° H= 50	
				T- 68 ° H= 50 M: 10 · 12 · / Nh: V:6)1, 0-st o T- 7 1 ° H= 50 M = 9-13 /.	in Reduce 11 Just of Supply 5 1. 54-561.
				T- 68 ° H= 50 M: 10 · 12 · / Nho: Visil, 0-st o T- 7 l ° H= 50 M = 9-13 ·/ Abte: All Leaker On Sink Wall	•
		Pate / Time:		T- 68 ° H= 50 M: 10 · 12 · / Nh: V:6)1, 0-st o T- 7 1 ° H= 50 M = 9-13 /.	in Reduce 11 Just of Supply 5 1. 54-561.

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APPENDIX B

DEFINITIONS AND LIMITATIONS



Mold Services Definitions & Limitations

Ensolum performed services in accordance with generally accepted practices of the profession undertaken in similar services at the same time and in the same geographical area. No other warranties, express or implied, apply to the services hereunder or the final report.

Ensolum's services and any report have been prepared on behalf of and for the exclusive use of the Client solely for its use and reliance in assessing the presence of mold in the Investigation Areas of the site. The Client was the only party to which Ensolum explained the risks and limitations of the services and was solely involved in shaping the scope of services. Accordingly, reliance on this report by any other party may involve assumptions leading to an unintended interpretation of findings and opinions. With the consent of the Client, Ensolum may offer reliance to third parties or contract with other parties to develop findings and opinions related to such party's unique risk management concerns. Notwithstanding the foregoing, reliance by any and all third parties upon this deliverable, Ensolum's services or any subsequent report shall be limited in the aggregate to the fair market value of the services provided by Ensolum.

"Limited Mold Assessment". This deliverable uses the term "Limited Mold Assessment" to denote that Ensolum's mold assessment services are limited: (i) to certain portions of the building structure (e.g., the Investigation Areas), by non-destructive sampling methodologies, and/or by access limitations to building materials or components within the Investigation Area(s). In contrast to a "Limited Assessment" is a comprehensive assessment would involve destructive sampling methods with the assessment to be conducted throughout the entire building structure.

Time sensitive. One must keep in mind that mold assessments are essentially a "snap shot in time," and the results are only relevant at the time of site reconnaissance. Because mold, when biologically active, is a living organism, its presence is influenced and controlled by environmental conditions. Mold assessments, therefore, are "time sensitive" in that the presence and concentration of mold and similar organisms in building structures or in the air is directly influenced by environmental conditions (such as humidity, moisture, nutrients and substrates), whether natural or caused by man, which conditions may vary significantly over relatively short periods of time.

Methodologies. Currently, mold assessment methodologies and protocols in Texas are governed by persuasive guidelines (rather than promulgated federal/state or local regulations). Presently, there is no data that supports a threshold limit or dose-response relationship for exposure to mold aeroallergens, individual pathogens, opportunistic pathogens and/or mycotoxins. The Occupational Safety and Health Administration (OSHA), the National Institute of Occupational Safety and Health (NIOSH) and other non-governmental associations, have not yet established permissible exposure limits (PELs), recommended exposure limits (RELs), or other limit values for fungi. Because no limit values presently exist. Ensolum will not and cannot represent that the site contains no harmful microbes, mold, fungi, or their metabolites, or other latent conditions beyond those identified by the limited scope of this mold assessment.



Findings limited. Findings in an LMA are limited due to the nature of the information obtained such as a visual reconnaissance of readily accessible areas of building structures, interview information, anecdotal information, and limited sampling data derived from one or more specific sampling events. Ensolum cannot warrant the accuracy of prior or subsequent information/data, reports and services performed by other firms at the Site. Ensolum assumes no responsibility or liability for errors in information or data provided by or through the client or third party sources. Ensolum's services are not to be construed as legal or medical interpretation or advice.

Moisture Intrusion Limitation. Ensolum performs mold assessment services and is not a moisture intrusion, HVAC, plumbing or building envelope specialist. However, during the course of conducting its mold assessment services, Ensolum will report observed areas of apparent moisture intrusion. Ensolum does not and will not investigate the cause or causes of such observed moisture intrusion. In the event apparent moisture intrusion is observed, Ensolum will recommend that the client contact a specialist (i.e., plumbing contractor, building envelope specialist, HVAC contractor, water intrusion specialist, etc.) to assist the client in determining the specific cause or causes of the moisture intrusion and remedial options.

Certificate of Mold Damage Remediation (CMDR). For mold remediation projects (above certain size thresholds), applicable Texas law (i.e., Texas Occupation Code Section 1958.54 and T.A.C. Section 295.397 (the Texas Mold Assessment and Remediation Rules), requires that a "Certificate of Mold Damage Remediation" be issued by the Mold Remediation Contractor upon successful completion of the project. This certificate must be provided to property owners no later than the 10th day after the date on which the mold remediation is completed at a property. The Mold Remediation Certificate issued by the Mold Remediation Contractor must include a certification by the Mold Assessor that the mold remediation project has been successfully completed in accordance with the mold remediation protocol.

Be advised that Ensolum's issuance of a CMDR upon successful completion of a Mold Remediation project does not mean, warrant or otherwise guarantee that mold will not be subsequently found in any portion of an Investigation Area or the Site. In the event that Ensolum is engaged to render services in connection with a mold remediation project, ENSOLUM will require Client to provide to Ensolum written documentation that all sources of moisture which contributed to the presence of mold in the Investigation Area have been fully remediated and corrected prior to achieving clearance.

APPENDIX C LICENSES/CERTIFICATIONS



TEXAS DEPARTMENT OF LICENSING AND REGULATION

P.O. Box 12157 Austin, Texas 78711-2157 1-800-803-9202 (512) 463-6599 www.tdlr.texas.gov

If you cut around the border of the license it will fit in a standard 5" x 7" frame.

4 30

ENSOLUM, LLC SUITE 1203 2351 W NORTHWEST HWY DALLAS TX 75220-4433

> Rick Figueroa Chair

Thomas F. Butler Vice Chair



Gerald R. Callas, M.D., F.A.S.A. Helen Callier Nora Castañeda Joel Garza Gary F. Wesson, D.D.S., M.S.

Mold Assessment Company

ENSOLUM, LLC

2351 W NORTHWEST HWY SUITE 1203 DALLAS

License Number: ACO1138

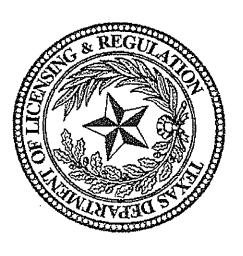
The entity named above is licensed by the Texas Department of Licensing and Regulation.

License Expires: February 07, 2024

Luis E. Turning

Brian E. Francis Executive Director

Rick Figueroa Chair Thomas F. Butler Vice Chair



Gerald R. Callas, M.D., F.A.S.A.

Helen Callier

Nora Castañeda

Joel Garza

Gary F. Wesson, D.D.S., M.S.

Mold Analysis Laboratory

MOODY LABS LLC

2051 VALLEY VIEW LN FARMERS BRANCH

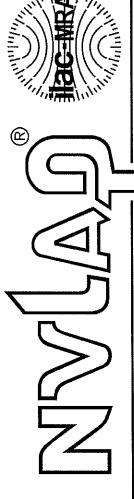
License Number: LAB0117

The entity named above is licensed by the Texas Department of Licensing and Regulation.

License Expires: March 01, 2024

Mike Arismendez, Jr. Executive Director

National Institute of Standards and Technology United States Department of Commerce



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 102056-0

Moody Labs, LLC

Farmers Branch, TX

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2022-07-01 through 2023-06-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program

National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Moody Labs, LLC

2051 Valley View Lane Farmers Branch, TX 75234-8956 Mr. Bruce Crabb

Phone: 972-241-8460 Fax: 972-241-8461 Email: bruce.crabb@moodylabs.com http://www.moodylabs.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 102056-0

Bulk Asbestos Analysis

Code

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of

Asbestos in Bulk Insulation Samples

Description

18/A03 EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

<u>Code</u> <u>Description</u>

18/A02 U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and

Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in

40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program



Texas Department of Licensing and Regulation
Mold Assessment Consultant
Darren G Bowden
License No. MAC0321 Expires February 15, 2024





Texas Department of Licensing and Regulation
Mold Assessment Consultant
Clinton S Jech
License No. MAC1444 Expires October 9, 2023

STATE OF TEXAS

CLINTON S JECH

MOLD ASSESSMENT CONSULTANT



LICENSE NUMBER MAC1444 EXPIRES 10/09/2023

TEXAS DEPARTMENT OF LICENSING AND REGULATION