Degan Elementary Limited Mold Assessment Room D104

Treadway, David <treadwayd@lisd.net>

Wed 8/9/2023 9:15 AM

To:Wilson, Lashundra <wilsonl@lisd.net>;Carpenter, Lisa <carpenterl@lisd.net>
Cc:Allgood, DeeDee <allgoodd@lisd.net>;Hughes, Jason <hughesjk@lisd.net>;Jones, Steven <jonessa@lisd.net>;Cashman, Jinger <cashmans@lisd.net>

Mrs Wilson,

Good morning. I am sending this email to follow up with the results of the limited mold assessment conducted in room D104 per a campus request. Ensolum LLC conducted the assessment on August 1st,2023. It is typically assumed that indoor spore levels in an area with filtered or air-conditioned air, and activity levels associated with schools, average below the outdoor levels. Data from the airborne fungi sampling indicated that the total indoor concentration of mold/fungi in **Room D104 was 6% of the outdoor levels.** The results of this test indicate that the indoor concentration levels were well within the acceptable guidelines for areas with filtered or air-conditioned air. The full report will be available on the LISD website once I have received it from Ensolum. Please let me know if you have any questions.

Sincerely,
David Treadway

David Treadway
LISD Environmental Coordinator
Facility Services Department
469-948-7823

ENSOLUM

Limited Mold Assessment Report

LISD Degan Elementary
Room D104
1680 College Pkwy.
Lewisville, TX 75077

August 1, 2023
Ensolum Project No. 01A1288190

Prepared for:

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

Prepared by:

Ensolum, LLC
8330 LBJ Freeway, Suite 830
Dallas, Texas 75243

Colton Turner
Mold Assessment Consultant
License MAC1866
Expiration Date – 06/22/2024

Darren G. Bowden
Principal
License No. MAC0321
Expiration Date - 2/15/2024

Table of Contents

LIMITED MOLD ASSESSMENT REPORT

LISD Degan Elementary
Room D104
1680 College Pkwy.
Lewisville, TX 75077

1.0 INTRODUCTION

Ensolum was retained by Lewisville ISD, to complete a Limited Mold Assessment within Room D104 of Degan Elementary School, 1680 College Pkwy., Lewisville TX 75077. 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 August 1, 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 Classroom D104. Water damage was not observed in the following locations:

VISIBLE WATER DAMAGE		
LOCATION	DATE	EXPLANATION
Classroom D104	8/1/2023	None Observed
Outside 1	8/1/2023	None Observed
Outside 2	8/1/2023	None Observed

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
Classroom D104	8/1/2023	77.3°F	41.4%	57.92%
Outside 1	8/1/2023	99.6°F	29.8%	85.45%
Outside 2	8/1/2023	99.7°F	29.9%	86.11%

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**
467446	Classroom D104
467578	Outside 1
467460	Outside 2

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 within the investigation area were considerably lower and were qualitatively similar to those measured outside of the building at the time the sampling was performed.

4.0 CONCLUSIONS

Based on Ensolum's limited assessment and the analytical results, it appears that the indoor air quality, as it relates to airborne fungi, was within recommended guidelines on the day of the assessment.

APPENDIX A: ANALYTICAL DATA

IAQ Mold Report
Version Addendum

2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client:	Ensolum, LLC	**Lab Job No.:**	23F-09206 (version 2)
Project:	LISD Degan Elementary	**Report Date:**	08/01/2023
Project #:	01A.1288.190	**Sample Date:**	08/01/2023
Sample Type:	Spore Trap, Non-cultured		
Test Method:	Mold: MLQ – 0112 – Standard Profile		Page 1 of 1

Change requested by: Client

Reason: Change to Project Number

Original text / values: Not Provided

Changed text / values: 01A.1288.190

Location on report: Project Number

Are analytical values changed? No

Analyst(s): Savanna Meeks

Report Revised by: Natasha Tyler

Lab Director: Heather Lopez

Approved Signatory: Heather Lopez

Lab Director: Bruce Crabb

Approved Signatory: Bruce Crabb

Thank you for choosing Moody Labs

IAQ Mold Report

Summary

Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : LISD Degan Elementary
Project # : 01A.1288.190
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No. : 23F-09206 (version 2)
Report Date : 08/01/2023
Sample Date: 08/01/2023
Spore Trap Type: Allergenco D

On 8/1/2023, three (3) 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	Concentration spores/cubic meter	
467446	75	Room D104	Cladosporium	67	33%
			Aspergillus / Penicillium	53	26%
			Hyphal / Spore Fragments - Dematiaceous	27	13%
			Myxomycete / Periconia / Rust / Smut	27	13%
			Basidiospores	27	13%
			Total:	201	100%
467378	75	Outdoor 1 * See Analytical Notes report for further details	Cladosporium	1569	41%
			Basidiospores	813	21%
			Aspergillus / Penicillium	520	14%
			Hyphal / Spore Fragments - Dematiaceous	333	9%
			Fusarium	120	3%
			Ascospores	120	3%
			Myxomycete / Periconia / Rust / Smut	67	2%
			Nigrospora	67	2%
			Cercospora / Pseudocercospora	53	1%
			Alternaria	40	1%
			Hyphal / Spore Fragments - Hyaline	27	<1%
			Curvularia	27	<1%
			Torula	13	<1%
			Drechslera / Bipolaris / Helminthosporum / Exserohilum group	13	<1%
			Total:	3782	100%

IAQ Mold Report

Summary

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2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460
TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : LISD Degan Elementary
Project # : 01A.1288.190
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No. : 23F-09206 (version 2)
Report Date : 08/01/2023
Sample Date: 08/01/2023
Spore Trap Type: Allergenco D

On 8/1/2023, three (3) 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	Concentration spores/cubic meter	
467460	75	Outdoor 2 * See Analytical Notes report for further details	Cladosporium	1943	50%
			Basidiospores	587	15%
			Aspergillus / Penicillium	480	12%
			Myxomycete / Periconia / Rust / Smut	173	4%
			Hyphal / Spore Fragments - Dematiaceous	147	4%
			Drechslera / Bipolaris / Helminthosporum / Exserohilum group	133	3%
			Curvularia	93	2%
			Alternaria	53	1%
			Hyphal / Spore Fragments - Hyaline	53	1%
			Cercospora / Pseudocercospora	53	1%
			Ascospores	40	1%
			Ganoderma	27	<1%
			Nigrospora	27	<1%
			Fusarium	27	<1%
			Coprinus group	13	<1%
			Chaetomium	13	<1%
			Total:	3862	100%

Analyst(s): Ashe Udie

Lab Director : Heather Lopez

Approved Signatory : Heather Lopez

Lab Director : Bruce Crabb

Approved Signatory : Bruce Crabb

End of Summary section (23F-09206)

Thank you for choosing Moody Labs

IAQ Mold Report

Data Detail

Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : LISD Degan Elementary
Project # : 01A.1288.190
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No. : 23F-09206 (version 2)
Report Date : 08/01/2023
Sample Date: 08/01/2023 Page 1 of 1
Spore Trap Type: Allergenco D

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:	467446					467378					467460				
Location:	Room D104					Outdoor 1					Outdoor 2				
Media Expires On:	Sep 2023					Sep 2023					Sep 2023				
Notes Included:						See Analytical Notes					See Analytical Notes				
Volume:	75					75					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
Alternaria						3	13	40	1%	40	4	13	53	1%	50
Ascospores						9	13	120	3%	120	3	13	40	1%	40
Aspergillus / Penicillium	4	13	53	26%	50	39	13	520	14%	520	36	13	480	12%	480
Basidiospores	2	13	27	13%	30	61	13	813	21%	810	44	13	587	15%	590
Cercospora / Pseudocercospora						4	13	53	1%	50	4	13	53	1%	50
Chaetomium											1	13	13	<1%	10
Cladosporium	5	13	67	33%	70	102	15	1569	41%	1600	102	19	1943	50%	1900
Coprinus group											1	13	13	<1%	10
Curvularia						2	13	27	<1%	30	7	13	93	2%	90
Drechslera / Bipolaris / Helminthosporum /						1	13	13	<1%	10	10	13	133	3%	130
Fusarium						9	13	120	3%	120	2	13	27	<1%	30
Ganoderma											2	13	27	<1%	30
Hyphal / Spore Fragments - Dematiaceous	2	13	27	13%	30	25	13	333	9%	330	11	13	147	4%	150
Hyphal / Spore Fragments - Hyaline						2	13	27	<1%	30	4	13	53	1%	50
Myxomycete / Periconia / Rust / Smut	2	13	27	13%	30	5	13	67	2%	70	13	13	173	4%	170
Nigrospora						5	13	67	2%	70	2	13	27	<1%	30
Stachybotrys															
Torula						1	13	13	<1%	10					
TOTALS	15		201	100%	200	268		3782	100%	3800	246		3862	100%	3900
Analyst	Ashe Udie					Ashe Udie					Ashe Udie				
Analysis Date	8/1/2023					8/1/2023					8/1/2023				
Debris Rating	2					3					3				
Debris Composition															
Fibers	2/5					1/5					1/5				
Inorganic/Other	1/5					3/5					3/5				
Insect Parts	0/5					0/5					0/5				
Pollen	1/5					1/5					0/5				
Skin/Dander	2/5					1/5					1/5				

End of Data Detail section
23F-09206

IAQ Mold Report

Analytical Notes

Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : LISD Degan Elementary
Project # : 01A.1288.190
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No. : 23F-09206 (version 2)
Report Date : 08/01/2023
Sample Date : 08/01/2023
Spore Trap Type: Allergenco D

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:	467378 : Outdoor 1
Notes:	Please note: the minimum reporting limit for Cladosporium is 15 spores / cubic meter. When comparing results to other samples, use calculated results, not raw numbers.
Sample No:	467460 : Outdoor 2
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.

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 LAP, LLC, 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.

IAQ Mold Report

Analytical Notes

Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460
TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : LISD Degan Elementary
Project # : 01A.1288.190
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No. : 23F-09206 (version 2)
Report Date : 08/01/2023
Sample Date : 08/01/2023
Spore Trap Type: Allergenco D

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.

Lab ID # 102577

End of Analytical Notes section
23F-09206

Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

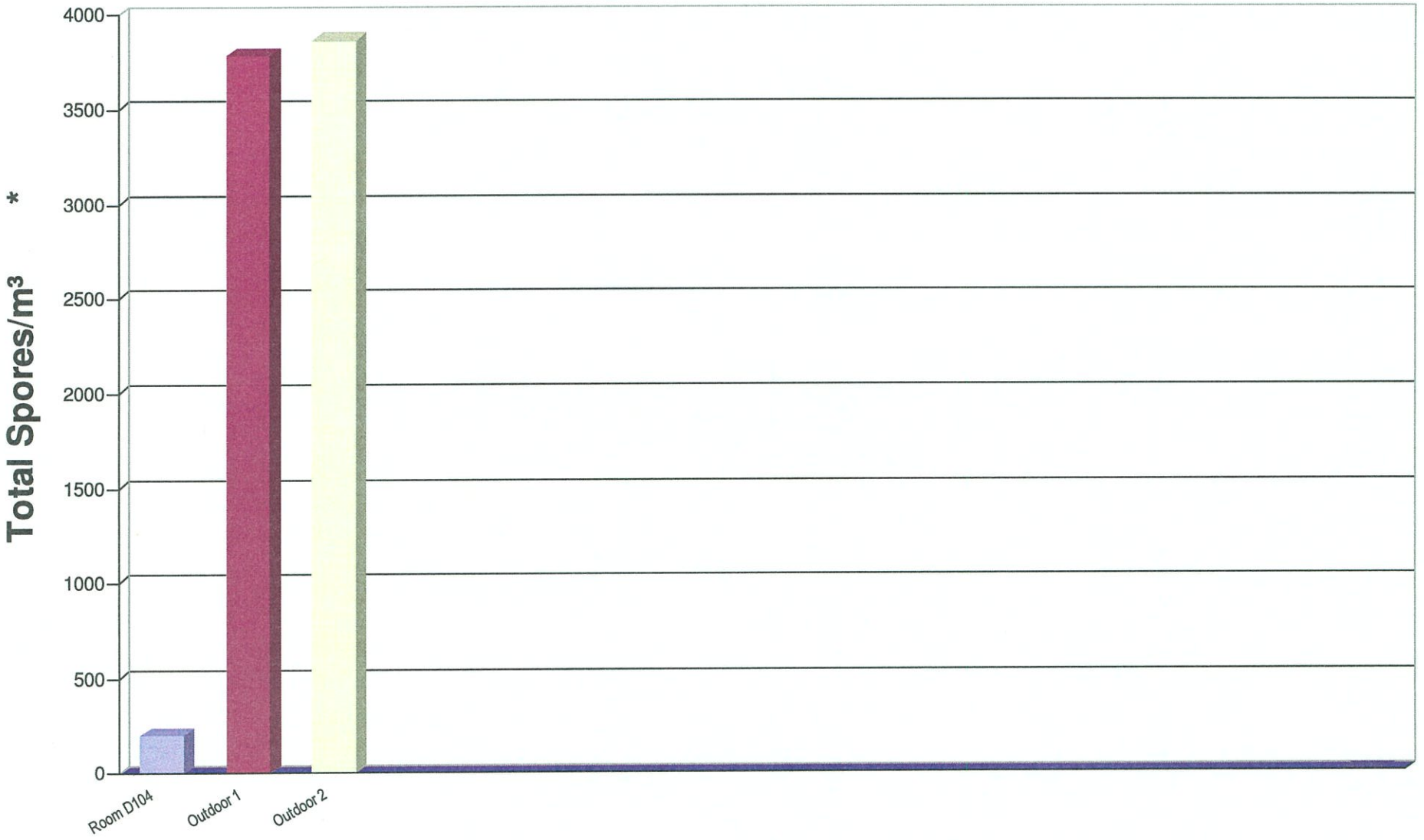
IAQ Mold Report

Supplemental Overview

TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : LISD Degan Elementary
Project # : 01A.1288.190

Lab Job No. 23F-09206
Report Date 08/01/2023
Sample Date : 08/01/2023



Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

IAQ Mold Report

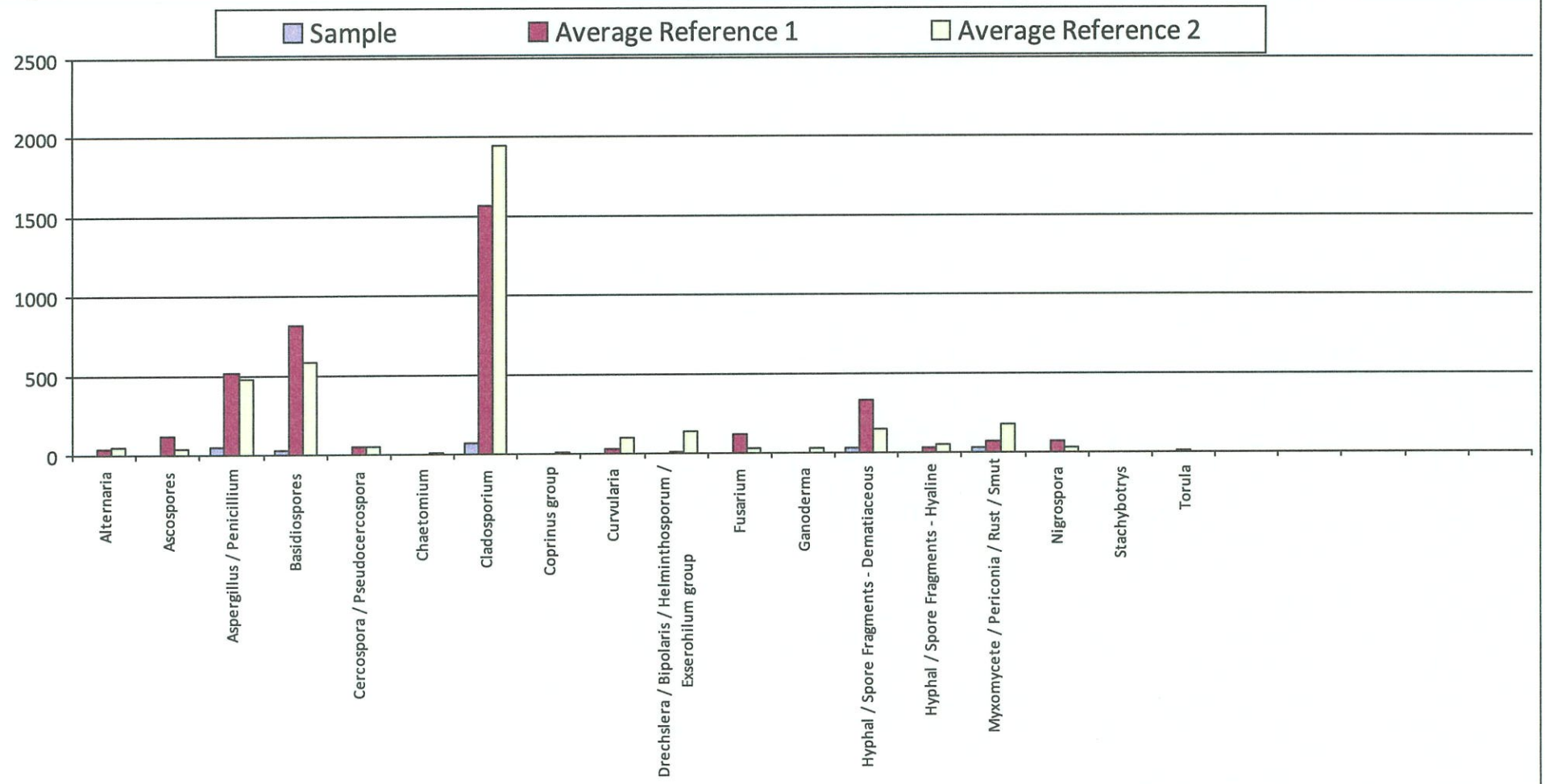
Supplemental Overview

TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : LISD Degan Elementary
Project # : 01A.1288.190

Room D104

Lab Job No. 23F-09206
Report Date 08/01/2023
Sample Date : 08/01/2023



Average Reference 1 = Outdoor 1

Average Reference 2 = Outdoor 2

Moody Labs

IAQ Mold Report

Supplemental Overview

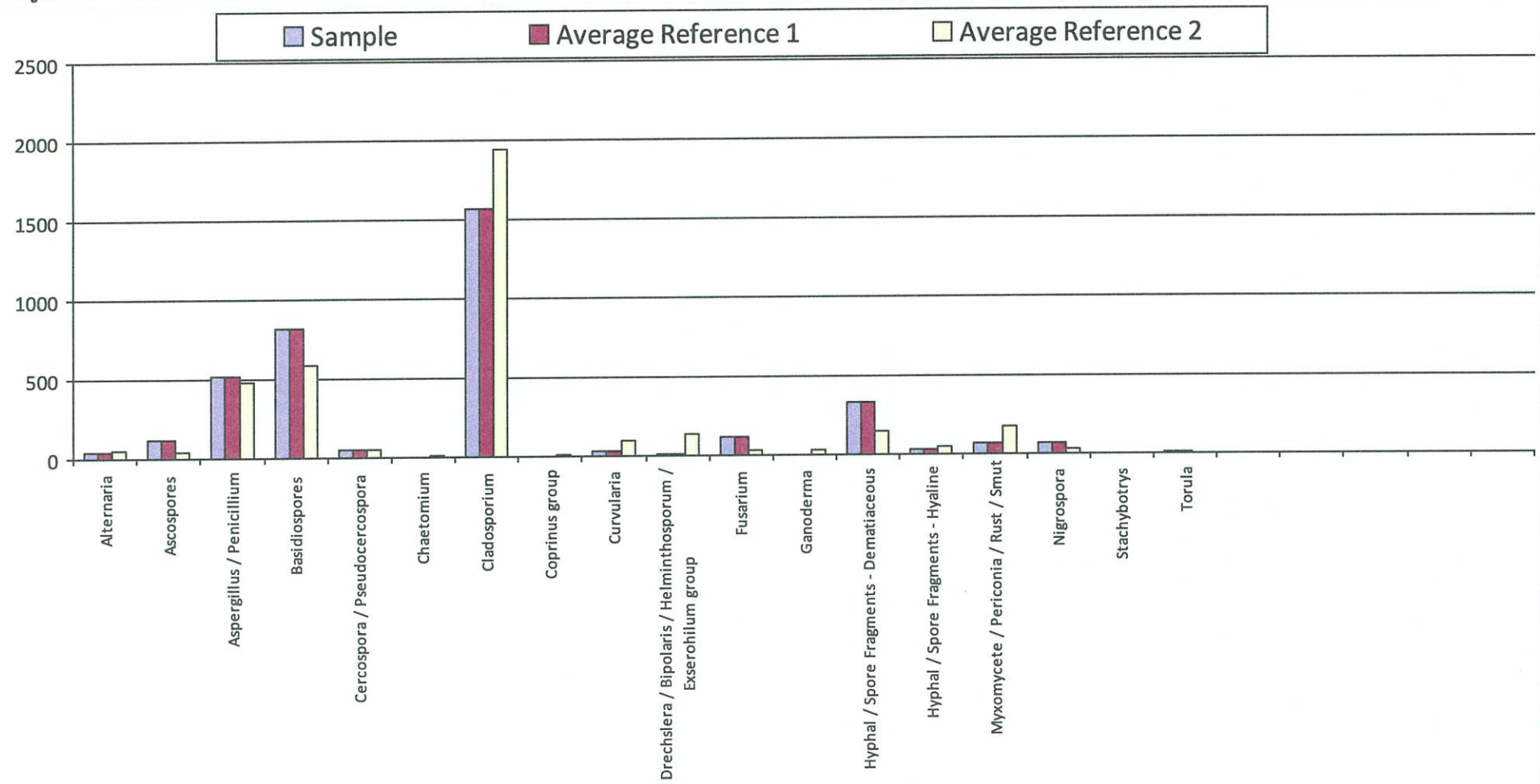
TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

Client : Ensolum, LLC
Project : LISD Degan Elementary
Project # : 01A.1288.190

Lab Job No. 23F-09206
Report Date 08/01/2023
Sample Date : 08/01/2023

Outdoor 1



Average Reference 1 = Outdoor 1

Average Reference 2 = Outdoor 2

Moody Labs

IAQ Mold Report

Supplemental Overview

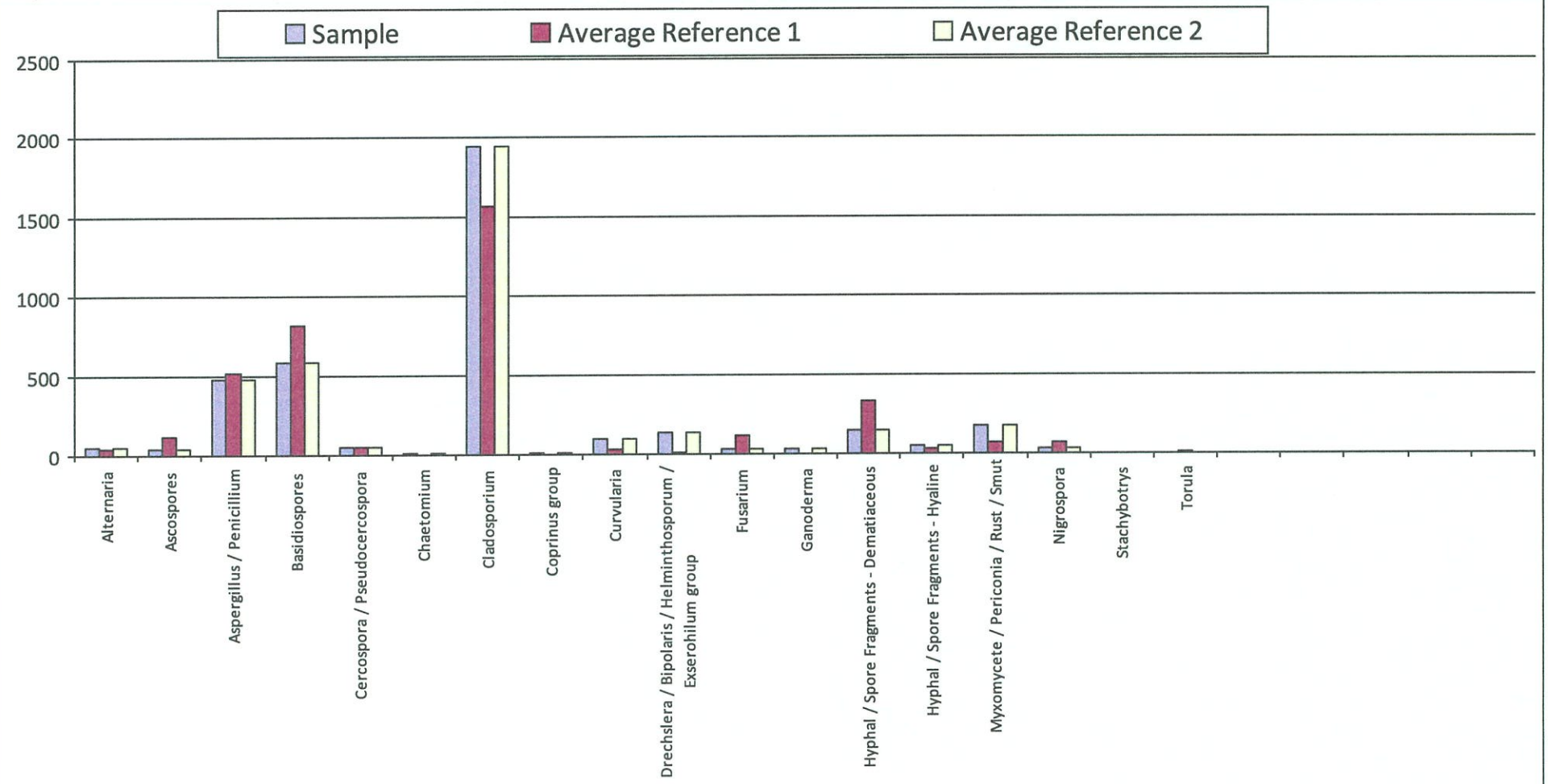
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : LISD Degan Elementary
Project # : 01A.1288.190

Lab Job No. 23F-09206
Report Date 08/01/2023
Sample Date : 08/01/2023

Outdoor 2



Average Reference 1 = Outdoor 1

Average Reference 2 = Outdoor 2

End of Supplemental Overview section (23F-09206)

Chain of Custody

Lab Job # 23E-09206
Lab Job # Allegheny 3
Lab Job #

AFTER HOURS / WEEKEND WORK: ☐ YES ☐ NO
Please call in advance for after hours / immediate pricing & availability

Page 1 of 1

ASBESTOS PLM

Bulk ☐ Immediate ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5-7 day
☐ **Analyze All** ☐ **Positive Stop**

PCM Air (7400)

☐ Immediate ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5 day
Analyze Blanks ☐ **Yes** ☐ **No**

TOTAL DUST(0500/0600)

☐ 1 day ☐ 2 day

ASBESTOS TEM

Air AHERA Method ☐ Late Night* ☐ 6 hr ☐ 12 hr ☐ 24 hr
Air 7402 (Modified) ☐ 1 day ☐ 2 day ☐ 3 day
Bulk ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5 day
Water/Wipe/Micro Vac ☐ 1 day ☐ 2 day ☐ 3 day
Analyze Blanks ☐ **Yes** ☐ **No**

*Late night analysis surcharges apply

MOLD

Direct Exam ☐ Immed ☐ 1 day ☐ 2 day ☐ 5 day
Standard Air ☒ Immed ☐ 1 day ☐ 2 day ☐ 5 day
Expanded Air ☐ Immed ☐ 1 day ☐ 2 day ☐ 5 day
TPC w/ Yeast & Mold (TYMC)** ☐ 5 day
Culture** ☐ 10-14 days
Analyze Blanks ☐ **Yes** ☐ **No**

BACTERIA**

Total Plate Count (TAMC) ☐ 2 day
Coliform & E. coli (P/A) ☐ 1 day
Coliform & E. coli (Q) ☐ 1 day
Enterococci (P/A) ☐ 1 day

Please note Beteria / Mold Culture turnarounds are approximate and subject to analytical requirements

OTHER:

Billing Company / City: Ensolum # of Samples: 3 Sample Date: 8/1/23

Project: Lisd Degan Elementary Project #:

Contact Information: Name: Phone #:

E-mail Results to: dhowden@ensolum.com Mobile #:

Invoice Address: P.O. #:

Please review paperwork and samples before submitting to lab. Unsealed / improperly packaged / damaged / expired samples or excessive administrative requests may incur additional fees

Notes:

Sample #	Sample Description	Vol. / Area (If applicable)	Location / Notes
467446	Room D104	75L	
467378	outdoor 1	1	
~~467446~~	●	1	
467460	outdoor 2	1	

Released By:	Date / Time:	Received By:	Date / Time:
Released By:	Date / Time:	Received By:	Date / Time: 8/1/23 1530

DS 34

APPENDIX B: DEFINITIONS AND LIMITATIONS

ENSOLUM

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: LICENCES

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.

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

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

Brian E. Francis
Executive Director

Mold Analysis Laboratory

MOODY LABS LLC

2051 VALLEY VIEW LN FARMERS BRANCH

License Number: LAB0117

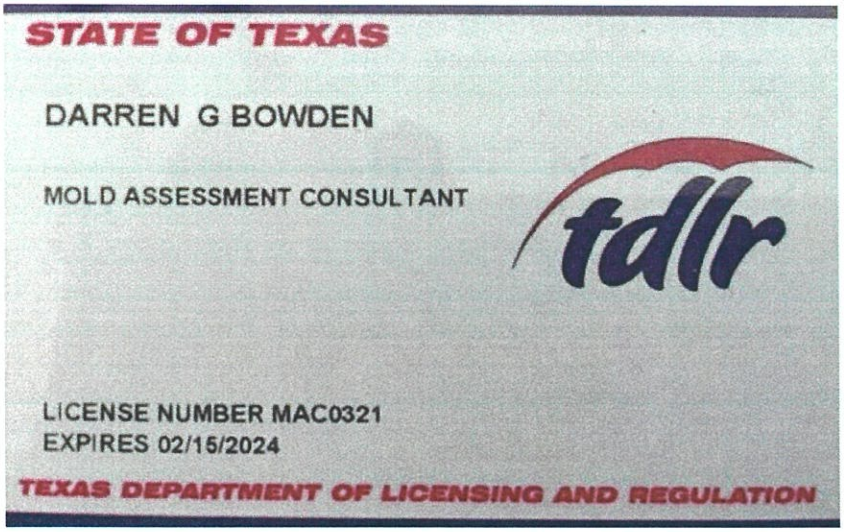
The entity named above is licensed by the Texas Department of Licensing and Regulation.

License Expires: March 01, 2024

Mike Arismendez, Jr.
Executive Director

ENSOLUM

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



GEBCO ASSOCIATES

certifies that

Darren G. Bowden

has successfully completed and passed the exam given on the final day for the Environmental Training Program entitled

Mold Assessment Consultant Refresher

Conducted at Hurst, Texas on February 13, 2023

This 8-hour course covers topics specified in the Texas Mold Assessment and Remediation Rules for the Mold Assessment Consultant at 78.68 (f).

GEBCO

Owner

Instructor: Dana Brown

Date of Issue 02/13/2023

Exam Date: 02/13/2023

Certificate Number: 23017 2202

Certificate Expires 02/13/2025

GEBCO's Training Programs are provided in cooperation with federal and state regulatory agencies, and fulfill all applicable requirements for accreditation. GEBCO is licensed through TDLR for Mold Training under the Texas Mold Assessors and Remediators Rules.

GEBCO Associates, LP * 815 Trailwood Dr, Suite 200 * Hurst, TX 76053 * (817)268-4006

ENSOLUM

Texas Department of Licensing and Regulation
Mold Assessment Consultant
Colton Turner
License No. MAC1866 Expires June 22, 2024

STATE OF TEXAS

COLTON TURNER

MOLD ASSESSMENT CONSULTANT

tdlr

LICENSE NUMBER MAC1866
EXPIRES 06/22/2024

TEXAS DEPARTMENT OF LICENSING AND REGULATION

GEBCO ASSOCIATES

certifies that

Colton D Turner

has successfully completed and passed the exam given on the final day for the Environmental Training Program entitled

Mold Assessment Consultant

Conducted at Hurst, Texas on February 7 - 11, 2022

This 40-hour course covers topics specified in the Texas Mold Assessment and Remediation Rules for the Mold Assessment Consultant at 295.320 (c).

GEBCO

Owner

Instructor: Dana Brown

Date of Issue 02/11/2022

Exam Date: 02/11/2022

Certificate Number: 22006 6049

Certificate Expires 02/11/2024

GEBCO's Training Programs are provided in cooperation with federal and state regulatory agencies, and fulfill all applicable requirements for accreditation. GEBCO is licensed for Asbestos Training under the Texas Asbestos Health Protection Rules.

GEBCO Associates, LP * 815 Trailwood Dr, Suite 200 * Hurst, TX 76053 * (817)268-4006