

DATE: May 9, 2019

TO: Lea Devers, Principal

SUBJECT: Central ES - IAQ - Air Test Results - Room 523

On Friday 5/3, Ensolum LLC Air tested Room 523. 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 523, was **5.8%** of the outdoor levels. Utilizing this theory, the indoor concentrations are well within the acceptable guidelines for areas with filtered air or air conditioning. If you have any questions, please call me. Thanks, Paul

Paul Siddall Maintenance Energy Auditor (IAQ) Facility Services Lewisville ISD 340 Lake Haven Rd Lewisville, TX 75057



May 15, 2019

Lewisville Independent School District 340 Lake Haven Lewisville, Texas 75057 Attn: Mr. Paul Siddall

Re:

Limited Mold Assessment Central Elementary School – Room 523 400 High School Street Lewisville, Texas Ensolum Project No. 01A.1288.023

Ensolum, LLC (Ensolum) was retained to perform limited mold assessment services for Lewisville Independent School District the within Room 523 of Central Elementary School located at 400 High School Drive in Lewisville, 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,

Valan Famain

Nolan Domain Mold Assessment Consultant MAC1479 EXP: 11/9/2019

Do A Forle

Darren G. Bowden Principal MAC0321 EXP: 2/15/2020

1.0 INTRODUCTION

Ensolum was retained by Mr. Paul Siddall, LISD, to complete a Limited Mold Assessment of classroom 523 within the Central Elementary School addressed at 400 High School Drive, Lewisville, Texas. The purpose of this investigation was to determine if elevated concentrations of airborne fungal spores and structures were present within the abovereferenced office.

Mr. Nolan Domain completed the on-site investigation on May 3, 2019. The Limited Mold Assessment was performed in response to a complaint of possible indoor air quality issues within the classroom.

2.0 PROCEDURE

Ensolum visually inspected accessible areas of the office. No visible water damage or odors were observed in the following locations:

| | VISIBLE W | ATER DAMAGE |
|---------------|-----------|--------------|
| LOCATION | DATE | EXPLAINATION |
| Classroom 523 | 5-3-2019 | N/A |

It is possible that water-damaged building materials are present within the adjacent areas but were not reasonably accessible due to access limitations.

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 a Vaisala HM40 Humidity and Temperature Meter. Measurements recorded during the investigation are listed in the chart below:

| TEMPERA | TURE, REL | ATIVE HUMIDITY | & SPECIFIC H | JMIDITY |
|---------------|-----------|----------------|----------------------|----------------------|
| LOCATION | DATE | Temperature: F | Relative Humidity | Specific Humidity |
| Classroom 523 | 5-3-2019 | 72.3° | 47.4% | 51.19 |

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 of time (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 of time (75 liters) at a height of approximately five (5) minutes period of time (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 TR/ | AP LOCATIONS |
|---------------|--------------------------------|
| SAMPLE NUMBER | LOCATION |
| #1 S/N-245203 | Classroom 523 |
| #2 S/N-245196 | Outdoor South West Exit by Gym |
| #3 S/N-245198 | Outdoor Front Entry |

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 room 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 this day.

APPENDIX A

ANALYTICAL DATA

Moody Labs

IAQ Mold Report

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 : LISD - Central ES Room 523

01A.1288.023 Project # :

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: ASTM D7391-17e1 - Standard Profile

Lab Job No. : 19F-05242 Report Date : 05/06/2019 11:26 AM Sample Date: 05/03/2019

Spore Trap Type: Allergenco D

Page 1 of 2

On 5/3/2019, three (3) samples were submitted by Nolan Domain of Ensolum, LLC (located at 2351 W. Northwest Hwy Suite #1203, Dallas, TX 75220) 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 | | | ntration |
|---------------|--------------------|---|--|--------|--|--|
| 1 | 75 | Room 523 * See Analytical Notes report for further details | Basidiospores Aspergillus / Penicillium Ascospores Cladosporium Drechslera / Bipolaris group Hyphal / Spore Fragments - Dematiaceous Myxomycete / Rust / Smut Coprinus group Curvularia | otal: | 1471 147 80 53 40 27 27 13 13 13 | 79% 8% 4% 3% 2% 1% 1% <1% <1% |
| 2 | 75 | Outside Southwest Exit by Gym * See Analytical Notes report for further details | Basidiospores Ascospores Coprinus group Cladosporium Aspergillus / Penicillium Diatrypaceae Agaricales group Drechslera / Bipolaris group Fusarium Cercospora Alternaria | | 17333 2000 933 187 160 93 80 40 27 13 13 | 83% 10% 4% <1% <1% <1% <1% <1% <1% |
| | | | Т | 'otal: | 20879 | 100% |

Moody Labs

IAQ Mold Report

Summary

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

2051 Valley View Lane

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

Test Method: Mold: ASTM D7391-17e1 - Standard Profile

Client : Ensolum, LLC

Project : LISD - Central ES Room 523

Project # : 01A.1288.023

Sample Type: Spore Trap, Non-cultured

Lab Job No. : 19F-05242

Report Date : 05/06/2019 11:26 AM

Sample Date: 05/03/2019 Spore Trap Type: Allergenco D

Page 2 of 2

On 5/3/2019, three (3) samples were submitted by Nolan Domain of Ensolum, LLC (located at 2351 W. Northwest Hwy Suite #1203, Dallas, TX 75220) 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 | Conces spores/cu | ntratior ibic mete |
|-------------------|-----------------|---|---|---------------------|-----------------------|
| 3 | 75 | Outside Front Entry | Basidiospores | 29000 | 89% |
| | | * See Analytical Notes report for | Ascospores | 1333 | 4% |
| | | further details | Cladosporium | 613 | 2% |
| | | | Coprinus group | 547 | 2% |
| | | | Diatrypaceae | 480 | 1% |
| | | | Aspergillus / Penicillium | 187 | <1% |
| | | | Cercospora | 80 | <1% |
| | | | Myxomycete / Rust / Smut | 80 | <1% |
| | | | Agaricales group | 67 | <1% |
| | | | Fusarium | 53 | <1% |
| | | | Hyphal / Spore Fragments - Dematiaceous | 13 | <1% |
| | | | Helicomyces | 13 | <1% |
| | | | Alternaria | 13 | <1% |
| | | | Total: | 32479 | 100% |
| | | | | | |
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| | | I. Data contained in this test report relates only to the should be made by a qualified professional. | e samples tested. This report does not express or imply interpreta | tion of | |
| | | or the manner in which these samples were collected ations of personnel performing sampling and/or inter | or handled prior to being received at this laboratory. Moody Lab pretations of this data. | S | |
| Analyst(s): M. G | Garcia | | Mathed | | |
| Lab Director : He | eather Lop | pez A | Approved Signatory : | 5 | |
| | 1 | | | ~ <i>\</i> | |

Lab Director : Bruce Crabb

Approved Signatory : Bune Cull

SMLMS v13.10

IAQ Mold Report

Data Detail

2051 Valley View Lane

Moody Labs

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

Client : Ensolum, LLC

Project : LISD - Central ES Room 523

Project # : 01A.1288.023

Sample Type: Spore Trap, Non-cultured

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

Lab Job No. : 19F-05242 Report Date : 05/06/2019 11:26 AM Sample Date: 05/03/2019 Spore Trap Type: Allergenco D

Test Method: Mold: ASTM D7391-17e1 - Standard Profile

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: | | | 1 | 1 | | | | 2 | 2 | | | | 3 | | |
|--------------------------------------|---------|----|-----------------------|----------|--------------------------|---------|-------|-----------------------|----------|--------------|---------|-----|-----------------------|---------|--------------------------|
| Location: | | | Roon | n 523 | | Οι | utsid | le Southw | est Exit | by Gym | | (| Outside Fr | ont En | try |
| Media Expires On: | | | Dec | 2019 | | | | Dec 2 | 2019 | | | | Dec 2 | 2019 | |
| Notes Included: | | S | See Analy | tical No | tes | | S | See Analyt | tical No | tes | | S | See Analyt | ical No | tes |
| Volume: | | | 7 | 5 | | | | 7 | 5 | | | | 75 | 5 | |
| | raw ct. | RL | spores/m ³ | %total | spores/m ³ SF | raw ct. | RL | spores/m ³ | %total | spores/m³ SF | raw ct. | RL | spores/m ³ | %total | spores/m ³ SF |
| Agaricales group | | | | | | 6 | 13 | 80 | <1% | 80 | 5 | 13 | 67 | <1% | 70 |
| Alternaria | | | | | | 1 | 13 | 13 | <1% | 10 | 1 | 13 | 13 | <1% | 10 |
| Ascospores | 6 | 13 | 80 | 4% | 80 | 100 | 20 | 2000 | 10% | 2000 | 100 | 13 | 1333 | 4% | 1300 |
| Aspergillus / Penicillium | 11 | 13 | 147 | 8% | 150 | 12 | 13 | 160 | <1% | 160 | 14 | 13 | 187 | <1% | 190 |
| Basidiospores | 103 | 14 | 1471 | 79% | 1500 | 130 | 133 | 17333 | 83% | 17000 | 145 | 200 | 29000 | 89% | 29000 |
| Cercospora | | | | | | 1 | 13 | 13 | <1% | 10 | 6 | 13 | 80 | <1% | 80 |
| Chaetomium | | | | | | | | | | | | | | | |
| Cladosporium | 4 | 13 | 53 | 3% | 50 | 14 | 13 | 187 | <1% | 190 | 46 | 13 | 613 | 2% | 610 |
| Coprinus group | 1 | 13 | 13 | <1% | 10 | 70 | 13 | 933 | 4% | 930 | 41 | 13 | 547 | 2% | 550 |
| Curvularia | 1 | 13 | 13 | <1% | 10 | | | | | | | | | | |
| Diatrypaceae | | | | | | 7 | 13 | 93 | <1% | 90 | 36 | 13 | 480 | 1% | 480 |
| Drechslera / Bipolaris group | 3 | 13 | 40 | 2% | 40 | 3 | 13 | 40 | <1% | 40 | | | | | |
| Fusarium | | | | | | 2 | 13 | 27 | <1% | 30 | 4 | 13 | 53 | <1% | 50 |
| Helicomyces | | | | | | | | | | | 1 | 13 | 13 | <1% | 10 |
| Hyphal / Spore Fragments - Dematiace | 2 | 13 | 27 | 1% | 30 | | | | | | 1 | 13 | 13 | <1% | 10 |
| Hyphal / Spore Fragments - Hyaline | | | | | | | | | | | | | | | |
| Memnoniella | | | | | | | | | | | | | | | |
| Myxomycete / Rust / Smut | 2 | 13 | 27 | 1% | 30 | | | | | | 6 | 13 | 80 | <1% | 80 |
| Stachybotrys | | | | | | | | | | | | | | | |
| TOTALS | 133 | | 1871 | 100% | 1900 | 346 | | 20879 | 100% | 21000 | 406 | | 32479 | 100% | 32000 |
| Analyst | | | M. G | arcia | | | | M. G | arcia | | | | M. Ga | arcia | |
| Analysis Date | | | 5/6/2 | 2019 | | | | 5/6/2 | 2019 | | | | 5/6/2 | 019 | |
| Debris Rating | | | 2 | 2 | | | | 2 | 2 | | | | 2 | | |
| Debris Composition | | | | | | | | | | | | | | | |
| Fibers | | | 1/ | /5 | | | | 1/ | 5 | | | | 1/ | 5 | |
| Inorganic/Other | | | 1/ | /5 | | | | 1/ | '5 | | | | 1/ | 5 | |
| Insect Parts | | | 0/ | /5 | | | | 0/ | 5 | | | | 0/ | 5 | |
| Pollen | | | 1/ | /5 | | | | 1/ | 5 | | | | 1/ | 5 | |
| Skin/Dander | | | 1/ | /5 | | | | 1/ | 5 | | | | 1/ | 5 | |

End of Data Detail section 19F-05242

SMLMS v13.10

| | IAQ Mold | Report |
|--------------------|--|--|
| Moody L | Analytical | Notes TDLR License No.: LAB011 |
| 2051 Valley V | View Lane | AIHA EMPAT ID: 10257 |
| Farmers Bran | ch, TX 75234 Phone: (972) 241-8460 | |
| Client : | Ensolum, LLC | Lab Job No.: 19F-05242 |
| Project : | LISD - Central ES Room 523 | Report Date : 05/06/2019 11:26 AM |
| Project # : | 01A.1288.023 | Sample Date : 05/03/2019 |
| Sample Type | : Spore Trap, Non-cultured | Spore Trap Type: Allergenco D |
| Test Method | : Mold: ASTM D7391-17e1 - Standard Profile | Page 1 of 3 |
| This report consis | sts of three sections; a summary section, a data detail section, and an a | nalytical notes section. Results may not be reported except in full. |
| Samples Ar | nalyzed | |
| Sample No | 1 : Room 523 | |
| Notes: | Please note: the minimum detection limit for Basidi results to other samples, use calculated results, not n | ospores is 14 spores / cubic meter. When comparing raw numbers. |
| Sample No | 2 : Outside Southwest Exit by Gym | |
| Notes: | Please note: the minimum detection limit for Basidi comparing results to other samples, use calculated r Please note: the minimum detection limit for Ascos results to other samples, use calculated results, not r | esults, not raw numbers. pores is 20 spores / cubic meter. When comparing |
| Sample No | 3 : Outside Front Entry | |
| Notes: | Please note: the minimum detection limit for Basidi comparing results to other samples, use calculated r | |
| Field Blank | S | |
| No discernab | le field blanks were submitted with this set of samples. | |
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IAQ Mold Report

Analytical Notes

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

2051 Valley View Lane

Moody Labs

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

Client : Ensolum, LLC

Project : LISD - Central ES Room 523

Project # : 01A.1288.023

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: ASTM D7391-17e1 - Standard Profile

Lab Job No. : 19F-05242 Report Date : 05/06/2019 11:26 AM Sample Date : 05/03/2019

Spore Trap Type: Allergenco D

Page 2 of 3

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.

Methods

Method: ASTM D7391-17e1: Categorization and Quantification of Airborne Fungal Structures in an Inertial Impaction Sample by Optical Microscopy.

Samples are read at 100% 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 D7391-17e1.

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.

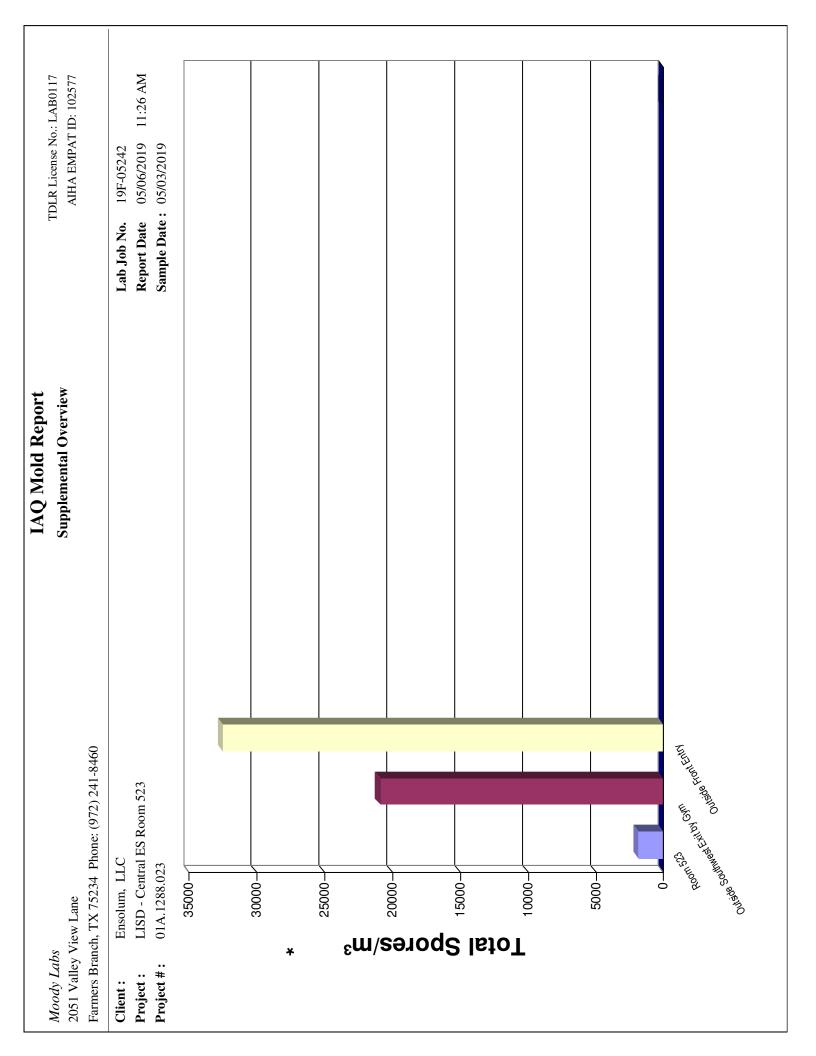
Debris Rating Key

- 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.



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| Moody L | Labs | | | | | | | 31 | IAQ I Supplen | IAQ Mold Report Supplemental Overview | Repor Dvervie | t v | | | | TDLR License No.: LAB0117 | se No.: I | AB0117 | |
|---|---|--|--|------------|------------|--------------|----------------|----------------------------|------------------------------|---|------------------|--|------------------------------------|----------------------|---|---|-----------|----------|--|
| 2051 Valley View Lane Farmers Branch, TX 752 | 2051 Valley View Lane Farmers Branch, TX 75234 Phone: (972) 241-8460 | 34 Phone: | : (972) 24 | 1-8460 | | | | | - | | | | | | | AIHA EMPAT ID: 102577 | PAT ID | : 102577 | |
| Client : Project : Project # : | Ensolum, LLC LISD - Central 01A.1288.023 | Ensolum, LLC LISD - Central ES Room 523 01A.1288.023 | Room 523 | | | | | Roo | Room 523 | | | | | Lab. Repo Samp | Lab Job No. Report Date Sample Date : | 19F-05242 05/06/2019 : 05/03/2019 | | 11:26 AM | |
| | | | Sample | e | | Ave | Average R | Reference | ce 1 | | | Average Reference | e Ref | erence | 2 | | | | |
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| | quorg səlisingA Alternaria | səroqsoosA | muillioin99 \ zulligr9qzA Basidiospores | Cercospora | muimotəsdD | muinoqeobalD | Coprinus group | Curvularia Diatrypaceae | Drechslera / Bipolaris group | muinesuf | Helicomyces | zuoeseitemed - ztnemgert - Spore Fragmen | ənileyH - stnəmgərə Əroq2 \ lenqyH | slləinonməM | tum2 \ fzuA \ 9192ymoxyM | ςτοφάροτιλο | | | |
| Average Reference 1 = Outside Southwest Exit by Gym | srence 1 = Ou | utside Sou | thwest Exi | it by Gym | | | | | Averag | Average Reference 2 = Outside Front Entry | nce 2 = (| Jutside F | ⁻ ront En | ry | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| eT fipooW | Labs | | | | | | | | IA | Q Mo | IAQ Mold Report | port | | | | TDLF | TDLR License No.: LAB0117 | No.: LA | B0117 | |
|---|---|--|---------------------------|---------------|--------------------------|------------|----------------|-------------------------------|--------------|------------------------------|-----------------|-------------|---|-------------|---|--------------|---------------------------------------|----------|----------|--|
| 2051 Valley View Lane Farmers Branch, TX 75 | 2051 Valley View Lane Farmers Branch, TX 75234 Phone: (972) 241-8460 | 34 Phone | e: (972) 2 | 41-846(| ~ | | | | 2 | | | | | | | AI | AIHA EMPAT ID: 102577 | AT ID: 1 | 02577 | |
| Client : Project : Project # : | Ensolum, LLC LISD - Central 01A.1288.023 | Ensolum, LLC LISD - Central ES Room 523 01A.1288.023 | Room 52 | 23 | | | Out | Outside Southwest Exit by Gym | uthwes | tt Exit b | oy Gym | | | L K X | Lab Job No. Report Date Sample Date : | | 19F-05242 05/06/2019 05/03/2019 | | 11:26 AM | |
| | | | Sample | ple | | A | verage | Average Reference 1 | rence | 1 | | Ave | Average Reference | eferei | nce 2 | | | | | |
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| | quorg səlisəinggA sinsennətlA | Ascospores | muillioin99 \ zullig19qzA | Basidiospores | eroqsoon90 muimoteen0 | muinorsens | Coprinus group | Curvularia | Diatrypaceae | Drechslera / Bipolaris group | muiaezua | Helicomyces | Hyphal / Spore Fragments - Dematiaceous Hyphal / Spore Fragments - Hyaline | ɛlləinonməM | tum2 \ fzuf \ 9195ymoxyM | Stachybotrys | | | | |
| Average Reference 1 = Outside Southwest Exit by Gym | erence 1 = 0 | utside Soi | uthwest E | ixit by C | jym | | | | Ą | verage R | eference | 2 = Outs | Average Reference 2 = Outside Front Entry | t Entry | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

| MoodyLa | Labs | | | | | | | | I S | AQ N upplem | IAQ Mold Report Supplemental Overview | keport verviev | | | | T | TDLR License No.: LAB0117 AIHA FMPAT ID- 107577 | se No.: I IPAT ID | AB0117 | |
|---|---|--|--------------------------------|---------------|-----------------|-----------------|-------------------|-------------------------------|---------------------|-----------------------------------|---|-------------------|---------------------------------------|-------------|------------------|--|--|----------------------|----------|---|
| 2051 Valley View Lane Farmers Branch, TX 75: | 2051 Valley View Lane Farmers Branch, TX 75234 Phone: (972) 241-8460 | 34 Phone | : (972) | 241-840 | 00 | | | | | | | | | | | | | | | |
| Client : | Ensolum, | LLC | ŭ L | Ş | | | | | | | | | | | Lab J | Lab Job No. | 19F-05242 | | | |
| Project # : | LISD - Centra 01A.1288.023 | LISD - Central ES Koom 323 01A.1288.023 | C moox | 57 | | | | Õ | Outside Front Entry | ront En | ıtry | | | | Kepoi Samp | Keport Date Sample Date : | 05/06/2019 05/03/2019 | | 11:26 AM | |
| | | | Sample | ple | | | Avera | ige Re | Average Reference 1 | e 1 | | A | Average Reference | e Refe | rence | 2 | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 25000 | | | | | | | | | | | | | | | | | | | | |
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| Average Reference 1 = Outside Southwest Exit by Gym | erence $1 = 0$ | utside Sou | ithwest H | txit by | Gym | | | | | Average | Average Reference 2 = Outside Front Entry | ce 2 = 0 | utside F1 | ont Entr | y | | | | | |
| End of Supplemental Overview section 19F-05242 | ntal Overview s | ection | | | | | | | | | | | | | | | | | | |

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.