

Testing by:
Indoor Air Science
75 Executive Drive
Suite 202
Aurora, IL 60504



Report: MOLD ASSESSMENT
Function: IAQ - Indoor Air Quality
Date: 2/10/2023

PROJECT

NVA ALLEGAN, MI VETERINARY CLINIC

845 MARSHALL ST

ALLEGAN, MI 49010

Client
S4(X) GLOBAL, LLC

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Background

Indoor Science was retained by National TAB to perform a mold assessment at 845 Marshall Street in Allegan, MI. On 02-02-2023, Scott Wieringa of Indoor Science met with the manager to access the project site and perform the field work.

The property is 1 story tall, with exterior walls made of the following materials: brick, wood siding, and glass. The primary building use is as a veterinary clinic.

The purpose of the site visit was to provide a general mold assessment of the property.

Mold is a branching fungus that forms distinct colonies. It grows on damp surfaces that have ample nutrients. Dampness and mold have consistent positive associations with multiple allergic and respiratory effects.¹




Visual Inspection

¹ *Respiratory and Allergic Health Effects of Dampness, Mold, and Dampness-Related Agents: A Review of the Epidemiologic Evidence*, Mark J. Mendell, Anna G. Mirer, Kerry Cheung, My Tong, and Jeroen Douwes, *Environmental Health Perspectives* Volume 119, no. 6, June 2011.

An inspection was performed using a 50+ point checklist that focused on identifying mold, water damage, and other indoor environmental issues. Indoor Science performed an inspection for visible mold and used an infrared camera to help identify areas of possible dampness. The infrared camera was used to highlight thermal anomalies which are typically present on damp materials. Dampness was confirmed using a dual-mode moisture meter with pin and pinless functions. Photographs and descriptions of important findings are included in the tables below.

Interior Inspection

During the inspection of the occupied areas of the building, the following items were identified.

Location	Observation
Operating and Treatment Rooms	 <ul style="list-style-type: none"> • No water damage was identified throughout the clinic. • There was no suspect visible mold growth identified throughout the building. • There was no current dampness measured in these areas.

Relative Humidity

Elevated relative humidity (RH) indoors can lead to mold problems. The exact relative humidity that leads to mold growth depends on the exact species, but generally growth happens when RH exceeds 60%. RH even below 60% can condense on cold surfaces, which can result in mold growth. This is especially a concern during cold weather. Therefore, Indoor Science uses the following interpretation scale:

- When outdoor temperatures are above freezing, RH should be less than 60%.
- When outdoor temperatures are near freezing, RH should generally be less than 35% to reduce condensation risks

The table below summarizes the measurements of relative humidity in the property.

Location	Relative Humidity (%RH)	Interpretation
Operating room	26.0	Not elevated
Treatment Room	26.0	Not elevated
Pharmacy	26.0	Not elevated
Reception Room	25.0	Not elevated

Air Sampling

Air samples for mold were collected on this project using Air-O-Cell spore trap cassettes and a high volume pump calibrated to 15 liters per minute. Samples were analyzed via microscopy in a laboratory accredited by AIHA Laboratory Accreditation Programs, LLC.

The government has not established safe or acceptable levels of mold in the air. In fact, outdoor air and indoor air always contain a background amount of airborne mold. To interpret the meaning of the results, multiple samples are taken and their concentrations compared. When mold is growing in one area of a property, it is presumed that the airborne levels will be higher than the control samples. The findings are summarized below with the full laboratory results attached in Appendix A.

Total Mold Spore Concentrations

Location	Total Mold Spore Concentration (spores/m3)
Treatment Room	0
Dental Room	0
Surgical Room	0
Exam Room	0
Kennel	0
Ultra Sound	0
X-ray	0
Pharmacy	53
Exam Room #3	110
Office #124	53
Break Room	0
Office #128	0
Office 127	0
Reception	110
Outdoors	160

There were no elevated airborne mold concentrations identified on this project.

The full laboratory report is attached in Appendix A.

Conclusions and Recommendations

The bulleted list below summarizes our conclusions and recommendations.

Conclusions

- Mold Growth
 - No visual mold growth was visually identified on this project.
- Moisture
 - We inspected the subject property with an infrared camera and a moisture meter and we were unable to detect any current dampness. There were no visible water stains or presumed mold growth discovered throughout the interior of the building.
 - We did not observed elevated levels of relative humidity at the time of the assessment.
- Air Samples
 - The types and concentrations of airborne mold in the area of concern were reflective of the types and concentrations found in the control samples. There were no water-damage indicating mold types such as Stachybotrys, Chaetomium, Ulocladium, Acremonium, Fusarium or Trichoderma.

Recommendations

Indoor Science does not have recommendations for any corrective actions.

Limitations

Indoor Science used all reasonable care to diligently assess the potential for hazardous conditions at the subject project site related to the scope of work. However, the absence of a hazardous condition being found in this assessment does not constitute a guarantee from Indoor Science that no other hazardous conditions are present, nor does the identification of hazardous conditions imply that all potentially hazardous conditions have been identified.

Indoor Science conducted this assessment following industry best practices and performed assessment protocols that are consistent with those exercised by other reputable consultants, based on current industry standards of practice for projects of similar scope and scale. No warranty, representation, or guarantee, express or implied, is included or intended in this assessment report.

As with all environmental consulting services, this assessment was limited to the defined scope and does not purport to set forth all hazards, nor indicate that other hazards do not exist.

Respectfully submitted by:



Scott Wieringa
Senior Consultant
Indoor Science
swieringa@indoorscience.com

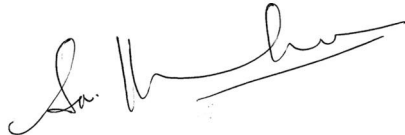
Appendix A: Lab Results

Report for:

Scott Wieringa
Indoor Science
75 Executive Drive
Suite 200
Aurora, IL 60504

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: 4201853
EML ID: 3156469

Approved by:



Cluster Leader
Dr. Kamash Pillai

Dates of Analysis:
Spore trap analysis: 02-06-2023

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #176641

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested. Information supplied by the client which can affect the validity of results: sample air volume.

Eurofins EPK Built Environment Testing, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EPK Built Environment Testing, LLC's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: Indoor Science
 C/O: Scott Wieringa
 Re: 4201853

Date of Sampling: 02-02-2023
 Date of Receipt: 02-06-2023
 Date of Report: 02-07-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	3503 4626: Treatment Room			3503 3154: Dental Room		
Comments (see below)	None			None		
Lab ID-Version‡:	15262247-1			15262248-1		
Analysis Date:	02/06/2023			02/06/2023		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Ascospores						
Basidiospores						
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+			1+		
Hyphal fragments/m3	< 13			< 13		
Pollen/m3	< 13			< 13		
Skin cells (1-4+)	1+			< 1+		
Sample volume (liters)	75			75		
§ TOTAL SPORES/m3			< 13			< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³, per spore and per sample.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m³ has been rounded to two significant figures to reflect analytical precision.

Client: Indoor Science
 C/O: Scott Wieringa
 Re: 4201853

Date of Sampling: 02-02-2023
 Date of Receipt: 02-06-2023
 Date of Report: 02-07-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	3503 3126: Surgical Room			3503 3120: Exam Room		
Comments (see below)	None			None		
Lab ID-Version‡:	15262249-1			15262250-1		
Analysis Date:	02/06/2023			02/06/2023		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Ascospores						
Basidiospores						
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+			2+		
Hyphal fragments/m3	< 13			< 13		
Pollen/m3	< 13			< 13		
Skin cells (1-4+)	< 1+			1+		
Sample volume (liters)	75			75		
§ TOTAL SPORES/m3			< 13			< 13

Comments:

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 C/O: Scott Wieringa
 Re: 4201853

Date of Sampling: 02-02-2023
 Date of Receipt: 02-06-2023
 Date of Report: 02-07-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	3503 3143: Kennel			3503 3138: Ultra Sound		
Comments (see below)	None			None		
Lab ID-Version‡:	15262251-1			15262252-1		
Analysis Date:	02/06/2023			02/06/2023		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Ascospores						
Basidiospores						
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+			1+		
Hyphal fragments/m3	< 13			< 13		
Pollen/m3	< 13			< 13		
Skin cells (1-4+)	< 1+			< 1+		
Sample volume (liters)	75			75		
§ TOTAL SPORES/m3			< 13			< 13

Comments:

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 C/O: Scott Wieringa
 Re: 4201853

Date of Sampling: 02-02-2023
 Date of Receipt: 02-06-2023
 Date of Report: 02-07-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	3503 3135: X-Ray			3503 4602: Pharmacy		
Comments (see below)	None			None		
Lab ID-Version‡:	15262253-1			15262254-1		
Analysis Date:	02/06/2023			02/06/2023		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Ascospores						
Basidiospores				1	25	53
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+			2+		
Hyphal fragments/m3	27			< 13		
Pollen/m3	< 13			< 13		
Skin cells (1-4+)	1+			3+		
Sample volume (liters)	75			75		
§ TOTAL SPORES/m3			< 13			53

Comments:

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 C/O: Scott Wieringa
 Re: 4201853

Date of Sampling: 02-02-2023
 Date of Receipt: 02-06-2023
 Date of Report: 02-07-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	3503 4617: Exam Rm/#3			3503 4612: Office #124		
Comments (see below)	None			None		
Lab ID-Version‡:	15262255-1			15262256-1		
Analysis Date:	02/06/2023			02/06/2023		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Ascospores						
Basidiospores	1	25	53			
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium	1	25	53	1	25	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+			2+		
Hyphal fragments/m3	40			< 13		
Pollen/m3	< 13			< 13		
Skin cells (1-4+)	3+			2+		
Sample volume (liters)	75			75		
§ TOTAL SPORES/m3			110			53

Comments:

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Client: Indoor Science
 C/O: Scott Wieringa
 Re: 4201853

Date of Sampling: 02-02-2023
 Date of Receipt: 02-06-2023
 Date of Report: 02-07-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	3503 4613: Break Room			3503 4606: Office #128		
Comments (see below)	None			None		
Lab ID-Version‡:	15262257-1			15262258-1		
Analysis Date:	02/06/2023			02/06/2023		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Ascospores						
Basidiospores						
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+			1+		
Hyphal fragments/m3	< 13			< 13		
Pollen/m3	< 13			< 13		
Skin cells (1-4+)	2+			< 1+		
Sample volume (liters)	75			75		
§ TOTAL SPORES/m3			< 13			< 13

Comments:

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 Re: 4201853

Date of Sampling: 02-02-2023
 Date of Receipt: 02-06-2023
 Date of Report: 02-07-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	3503 3232: Office #127			3503 3157: Reception		
Comments (see below)	None			None		
Lab ID-Version‡:	15262259-1			15262260-1		
Analysis Date:	02/06/2023			02/06/2023		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Ascospores						
Basidiospores						
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium				1	25	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†				1	25	53
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+			3+		
Hyphal fragments/m3	< 13			< 13		
Pollen/m3	< 13			< 13		
Skin cells (1-4+)	1+			2+		
Sample volume (liters)	75			75		
§ TOTAL SPORES/m3			< 13			110

Comments:

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 C/O: Scott Wieringa
 Re: 4201853

Date of Sampling: 02-02-2023
 Date of Receipt: 02-06-2023
 Date of Report: 02-07-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	3503 3184: Outdoors		
Comments (see below)	None		
Lab ID-Version‡:	15262261-1		
Analysis Date:	02/06/2023		
	raw ct.	% read	spores/m3
Ascospores			
Basidiospores	1	25	53
Bipolaris/Drechslera group			
Botrytis			
Chaetomium			
Cladosporium	2	25	110
Curvularia			
Epicoccum			
Fusarium			
Myrothecium			
Nigrospora			
Other colorless			
Penicillium/Aspergillus types†			
Pithomyces			
Rusts			
Smuts, Periconia, Myxomycetes			
Stachybotrys			
Stemphylium			
Torula			
Ulocladium			
Zygomycetes			
Background debris (1-4+)††	3+		
Hyphal fragments/m3	27		
Pollen/m3	< 13		
Skin cells (1-4+)	< 1+		
Sample volume (liters)	75		
§ TOTAL SPORES/m3			160

Comments:

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The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³, per spore and per sample.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

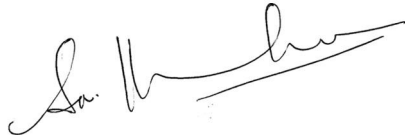
§ Total Spores/m³ has been rounded to two significant figures to reflect analytical precision.

Report for:

Scott Wieringa
Indoor Science
75 Executive Drive
Suite 200
Aurora, IL 60504

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: 4201853
EML ID: 3156469

Approved by:



Cluster Leader
Dr. Kamash Pillai

Dates of Analysis:
Spore trap analysis: 02-06-2023

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #176641

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested. Information supplied by the client which can affect the validity of results: sample air volume.

Eurofins EPK Built Environment Testing, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EPK Built Environment Testing, LLC's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: Indoor Science
 C/O: Scott Wieringa
 Re: 4201853

Date of Sampling: 02-02-2023
 Date of Receipt: 02-06-2023
 Date of Report: 02-07-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	3503 4626: Treatment Room				3503 3154: Dental Room				3503 3126: Surgical Room				3503 3120: Exam Room			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	15262247-1				15262248-1				15262249-1				15262250-1			
Analysis Date:	02/06/2023				02/06/2023				02/06/2023				02/06/2023			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	2+				1+				1+				2+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments																
Pollen																
§ TOTAL FUNGAL SPORES		< 13	n/a	100		< 13	n/a	100		< 13	n/a	100		< 13	n/a	100
Ascospores																
Basidiospores																
Chaetomium																
Cladosporium																
Other colorless																
Penicillium/Aspergillus types																
Pithomyces																
Rusts																
Smuts, Periconia, Myxomycetes																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³, per spore and per sample.

*The detection limit/limit of detection (DL) per cubic meter (m³) has been rounded to two significant figures to reflect analytical precision.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Client: Indoor Science
 C/O: Scott Wieringa
 Re: 4201853

Date of Sampling: 02-02-2023
 Date of Receipt: 02-06-2023
 Date of Report: 02-07-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	3503 3143: Kennel				3503 3138: Ultra Sound				3503 3135: X-Ray				3503 4602: Pharmacy			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	15262251-1				15262252-1				15262253-1				15262254-1			
Analysis Date:	02/06/2023				02/06/2023				02/06/2023				02/06/2023			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	1+				1+				2+				2+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments									2	27	13	n/a				
Pollen																
§ TOTAL FUNGAL SPORES		< 13	n/a	100		< 13	n/a	100		< 13	n/a	100	1	53	n/a	100
Ascospores																
Basidiospores													1	53	53	100
Chaetomium																
Cladosporium																
Other colorless																
Penicillium/Aspergillus types																
Pithomyces																
Rusts																
Smuts, Periconia, Myxomycetes																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³, per spore and per sample.

*The detection limit/limit of detection (DL) per cubic meter (m³) has been rounded to two significant figures to reflect analytical precision.

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§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Client: Indoor Science
 C/O: Scott Wieringa
 Re: 4201853

Date of Sampling: 02-02-2023
 Date of Receipt: 02-06-2023
 Date of Report: 02-07-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	3503 4617: Exam Rm/#3				3503 4612: Office #124				3503 4613: Break Room				3503 4606: Office #128			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	15262255-1				15262256-1				15262257-1				15262258-1			
Analysis Date:	02/06/2023				02/06/2023				02/06/2023				02/06/2023			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)††	2+				2+				2+				1+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	3	40	13	n/a												
Pollen																
§ TOTAL FUNGAL SPORES	2	110	n/a	100	1	53	n/a	100		< 13	n/a	100		< 13	n/a	100
Ascospores																
Basidiospores	1	53	53	50												
Chaetomium																
Cladosporium	1	53	53	50	1	53	53	100								
Other colorless																
Penicillium/Aspergillus types																
Pithomyces																
Rusts																
Smuts, Periconia, Myxomycetes																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³, per spore and per sample.

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††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Client: Indoor Science
 C/O: Scott Wieringa
 Re: 4201853

Date of Sampling: 02-02-2023
 Date of Receipt: 02-06-2023
 Date of Report: 02-07-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	3503 3232: Office #127				3503 3157: Reception				3503 3184: Outdoors			
Comments (see below)	None				None				None			
Lab ID-Version‡:	15262259-1				15262260-1				15262261-1			
Analysis Date:	02/06/2023				02/06/2023				02/06/2023			
Sample volume (liters)	75				75				75			
Background debris (1-4+)††	2+				3+				3+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments									2	27	13	n/a
Pollen												
§ TOTAL FUNGAL SPORES		< 13	n/a	100	2	110	n/a	100	3	160	n/a	100
Ascospores												
Basidiospores									1	53	53	33
Chaetomium												
Cladosporium					1	53	53	50	2	110	53	67
Other colorless												
Penicillium/Aspergillus types					1	53	53	50				
Pithomyces												
Rusts												
Smuts, Periconia, Myxomycetes												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³, per spore and per sample.

*The detection limit/limit of detection (DL) per cubic meter (m³) has been rounded to two significant figures to reflect analytical precision.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Fungal Spores has been rounded to two significant figures to reflect analytical precision.

Client: Indoor Science
 C/O: Scott Wieringa
 Re: 4201853

Date of Sampling: 02-02-2023
 Date of Receipt: 02-06-2023
 Date of Report: 02-07-2023

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 3503 3184, Outdoors

Fungi Identified	Outdoor data	Typical Outdoor Data for: February in Illinois† (n‡=2391)						Typical Outdoor Data for: The entire year in Illinois† (n‡=47538)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	7	7	13	27	53	12	13	13	53	170	320	53
Bipolaris/Drechslera group	-	7	13	13	33	53	2	7	7	13	27	48	8
Chaetomium	-	7	7	13	34	91	5	7	7	13	27	67	4
Cladosporium	110	27	27	67	240	530	58	53	110	640	2,600	4,800	86
Curvularia	-	7	13	13	40	59	2	7	7	13	40	80	11
Nigrospora	-	7	7	13	27	40	5	7	13	20	53	110	20
Penicillium/Aspergillus types	-	27	27	53	160	270	44	27	53	110	370	690	42
Stachybotrys	-	7	13	20	93	280	3	7	7	13	53	130	2
Torula	-	7	7	13	40	53	1	7	7	13	47	75	7
Seldom found growing indoors**													
Ascospores	-	13	27	53	220	510	30	53	110	430	1,600	3,000	76
Basidiospores	53	27	53	110	320	1,000	58	53	160	910	3,600	6,500	87
Rusts	-	7	7	13	25	33	2	7	13	27	110	200	29
Smuts, Periconia, Myxomycetes	-	7	7	13	40	67	22	13	13	40	120	210	51
§ TOTAL SPORES/m3	160												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by Eurofins EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, Eurofins EMLab P&K may not have received and tested a representative number of samples for every region or time period. Eurofins EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.



EMLab P&K

Marlton, NJ: 3000 Lincoln Dr E, Ste. A, Marlton, NJ 08053 * (866) 871-1984
 Phoenix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 * (800) 651-4802
 SSF, CA: 6000 Shoreline Ct, Ste. 205, S. San Francisco, CA 94080 * (866) 888-6653

WEATHER	Fog	Rain	Snow	Wind	Clear
None					
Light					
Moderate					
Heavy					

REQUESTED SERVICE	
Non-Culturable	Spore Trap
Culturable	Tape, Swab, Bulk, BioCassette™ Andersen, S Swab, Water, Bulk, Dust, S Contact Plate



CONTACT INFORMATION

Company: Taylor Science
 Contact: Scott Wieringa
 Phone: 312-920-9393
 Address: Special Instructions: labresults@indorscience.com
 Scott@indorscience.com

PROJECT INFORMATION

Project ID: 4201853

TURN AROUND TIME CODES - (TAT)

Project Description: Treatment Room
 Project: Dental Room
 Zip Code: 60312
 Sampling Date/Time: 2/2/2023
 Sampled By: Scott Wieringa
 STD - Standard (Default)
 ND - Next Business Day
 SD - Same Business Day
 WH - Weekend/Holiday/SAP
 Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

SAMPLE ID	DESCRIPTION	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	NOTES (Time of day, Temp, RH, etc.)
3503 4626	Treatment Room	ST	ND	75L	
3503 3154	Dental Room	ST	ND	75L	
3503 3126	Surgical Room	ST	ND	75L	
3503 3120	Exam Room	ST	ND	75L	
3503 3143	Kenel	ST	ND	75L	
3503 3138	Ultrasound	ST	ND	75L	
3503 3135	X-Ray	ST	ND	75L	
3503 4602	Pharmacy	ST	ND	75L	
3503 4617	Exam Rm/#3	ST	ND	75L	
3503 4612	Office #124	ST	ND	75L	
3503 4613	Break Room	ST	ND	75L	
3503 4606	Office #128	ST	ND	75L	
3503 3232	Office #127	ST	ND	75L	
3503 3157	Reception	ST	ND	75L	
3503 3184	Reception	ST	ND	75L	

SAMPLE TYPE CODES

BC - BioCassette™	CP - Contact Plate	T - Tape	O - Other
ATS - Andersen	ST - Spore Trap	SW - Swab	
SAS - Surface Air Sampler	B - Bulk	SO - Soil	
NP - Non-potable Water	P - Potable Water	D - Dust	

RELINQUISHED BY

DATE & TIME

Scott Wieringa 2/2/2023

RECEIVED BY

DATE & TIME

FEB 03 2023
 MPA

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at http://www.emlab.com/terms-of-service