

# Clay Point Associates, Inc.

[www.claypointassociates.com](http://www.claypointassociates.com)



December 20, 2024

Mr. David Garner  
Project Manager  
LB&B Associates, Inc.  
11 Elmwood Avenue  
Burlington, Vermont 05402

Re: Report of Air Sampling Activity/Airborne Mold Spores  
U.S. Federal Building, Basement Level, 87 State Street, Montpelier, Vermont  
CPAI Project #15965

Dear Mr. Garner:

The following documents on-site air sampling activities performed by Clay Point Associates, Inc. (CPAI) on November 18, 2024, within the basement level of the U.S. Federal Building, 87 State Street, Montpelier, Vermont. The purpose of the air sampling activity was to enumerate and identify airborne fungal spores at the time of air sample collection. Air sampling was performed following completion of environmental remediation activities and a thorough cleaning of all surfaces throughout the designated work area.

On November 18, 2024, CPAI collected ten (10) Zefon Air-O-Cell Cassette (spore trap) samples from within designated areas of the basement. One (1) additional sample was collected from the building exterior for comparison. The collection rate was 15.10 liters per minute and the sampling duration was 10 minutes per sample.

Upon completion of air sample collection, all samples were submitted for analysis in accordance with specified methods. Spore trap air samples were analyzed by Eurofins EPK Built Environment Testing, LLC of Marlton, New Jersey. Eurofins is accredited by the American Industrial Hygiene Association (AIHA) for environmental microbiology.

In general, the biodiversity of airborne fungal spores inside the basement was similar to the biodiversity of fungal spores detected on the exterior sample. Furthermore, the total airborne concentration of fungal spores for each of the inside samples was well below the airborne concentration of fungal spores on the exterior sample. In addition, the analytical services' proprietary mold score algorithm for each interior sample was reported as Low, indicating a greater likelihood that spores detected inside the building originated from an outside source.

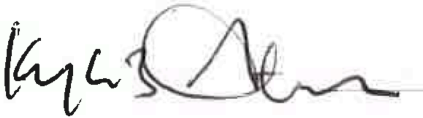
Based on our final visual inspection throughout the basement level and the results of microbiological air sampling, CPAI does not recommend any further activity with respect to previous flooding and the previous presence of visible fungal growth in the basement.

Mr. David Garner  
December 20, 2024  
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Included with this report is a drawing depicting microbiological air sample collection points and the analytical service report.

Thank you for the opportunity to service your professional environmental management needs. If you have any questions concerning this report, or require additional information, please contact us at (802) 879-2600, or by email at [hobson@claypointassociates.com](mailto:hobson@claypointassociates.com).

Sincerely,  
CLAY POINT ASSOCIATES, INC.

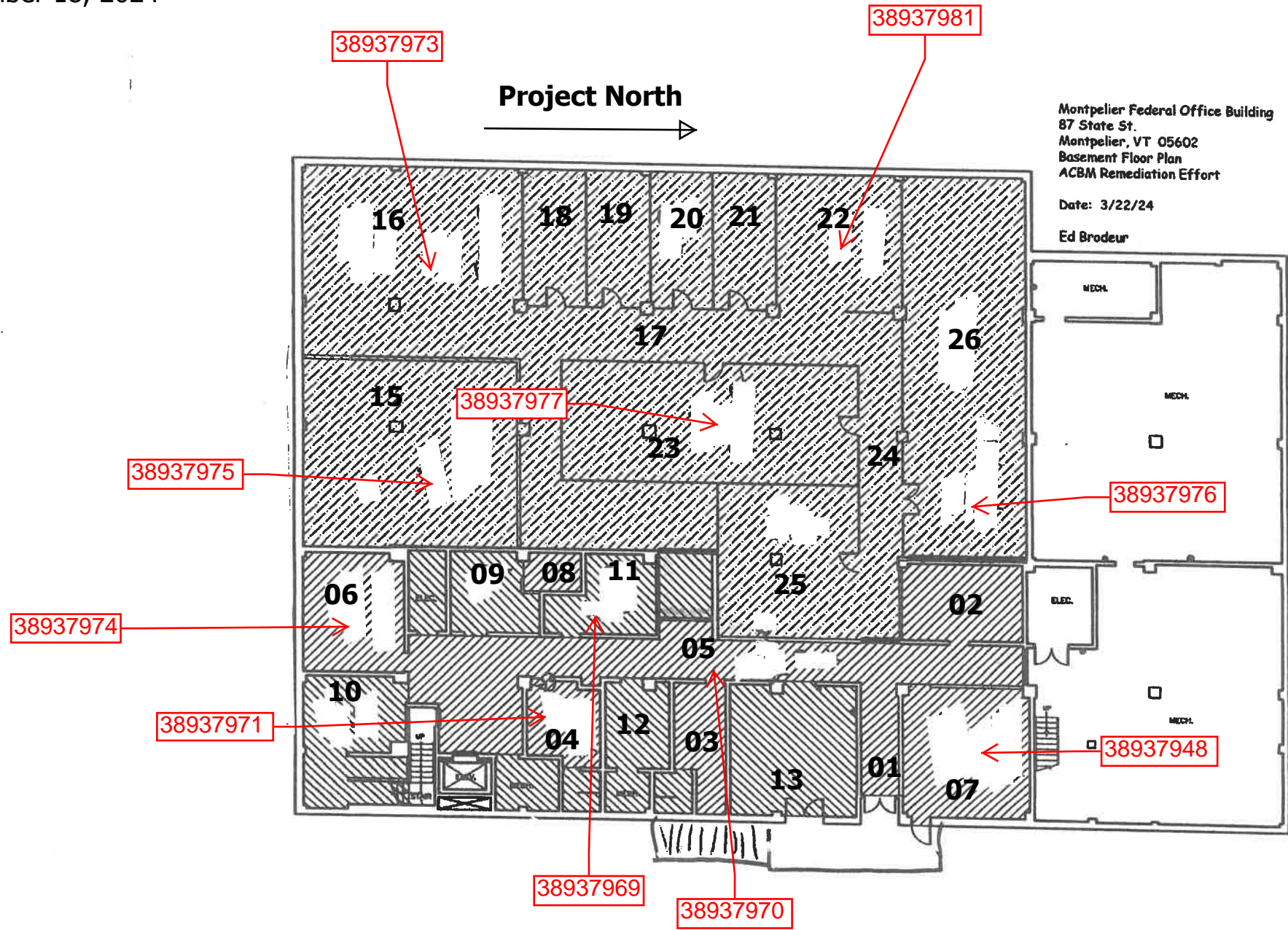
A handwritten signature in black ink, appearing to read "Kyle B. Austin". The signature is fluid and cursive, with a large initial "K" and "A".

Kyle B. Austin  
Environmental Associate

cc: Brent Morgenstern/Alloy Group, Inc.  
Ed Brodeur/U.S. GSA  
Kathy Boumil-Stimets/LB&B Associates, Inc.

Spore Trap Sample Locations  
November 18, 2024

00 = CPAI Area Nos.



Exterior Sample  
38937959

Report for:

**Mr. Kyle Austin**  
**Clay Point Associates, Inc.**  
P.O. Box 1254  
Williston, VT 05495

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Regarding: Eurofins EPK Built Environment Testing, LLC  
Project: 15965; Montpalian Federal Bldg  
EML ID: 3856939

Approved by:

Dates of Analysis:  
Spore trap analysis: 11-20-2024



Technical Manager  
Ariunaa Jalsrai

Service SOPs: Spore trap analysis (EB-MY-S-1038)  
AIHA LAP, LLC accredited service, Lab ID #103005

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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: Clay Point Associates, Inc.  
 C/O: Mr. Kyle Austin  
 Re: 15965; Montpalian Federal Bldg

Date of Sampling: 11-18-2024  
 Date of Receipt: 11-19-2024  
 Date of Report: 11-20-2024

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	38937975: W. Bsmnt - SW			38937973: W. Bsmnt - MW		
Comments (see below)	None			None		
Lab ID-Version‡:	19079776-1			19079777-1		
Analysis Date:	11/20/2024			11/20/2024		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Ascospores						
Basidiospores	2	25	53	5	25	130
Botrytis						
Chaetomium						
Cladosporium	7	25	190	5	25	130
Curvularia						
Epicoccum	1	100	7			
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	8	100	53			
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)	1+			1+		
Hyphal fragments/m3	< 7			< 7		
Pollen/m3	< 7			< 7		
Skin cells (1-4+)	1+			1+		
Sample volume (liters)	151			151		
<b>§ TOTAL SPORES/m3</b>			<b>300</b>			<b>260</b>

**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/m<sup>3</sup> divided by the raw count, expressed in spores/m<sup>3</sup>, 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/m<sup>3</sup> has been rounded to two significant figures to reflect analytical precision.

Client: Clay Point Associates, Inc.  
 C/O: Mr. Kyle Austin  
 Re: 15965; Montpalian Federal Bldg

Date of Sampling: 11-18-2024  
 Date of Receipt: 11-19-2024  
 Date of Report: 11-20-2024

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	38937981: W. Bsmnt - CTR			38937977: W. Bsmnt - NE		
Comments (see below)	None			None		
Lab ID-Version‡:	19079778-1			19079779-1		
Analysis Date:	11/20/2024			11/20/2024		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Ascospores						
Basidiospores	9	25	240	8	25	210
Botrytis						
Chaetomium						
Cladosporium	6	25	160	5	25	130
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes				4	100	26
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)	1+			1+		
Hyphal fragments/m3	< 7			< 7		
Pollen/m3	< 7			< 7		
Skin cells (1-4+)	1+			1+		
Sample volume (liters)	151			151		
<b>§ TOTAL SPORES/m3</b>			<b>400</b>			<b>370</b>

**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.

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Date of Sampling: 11-18-2024  
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 Date of Report: 11-20-2024

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	38937976: W. Bsmnt - SE			38937948: E. Bsmnt - SE		
Comments (see below)	None			None		
Lab ID-Version‡:	19079780-1			19079781-1		
Analysis Date:	11/20/2024			11/20/2024		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Ascospores						
Basidiospores	6	25	160	17	25	450
Botrytis						
Chaetomium						
Cladosporium	5	25	130	11	25	290
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts	1	100	7			
Smuts, Periconia, Myxomycetes	2	100	13	1	100	7
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)	1+			1+		
Hyphal fragments/m3	< 7			< 7		
Pollen/m3	< 7			< 7		
Skin cells (1-4+)	1+			1+		
Sample volume (liters)	151			151		
<b>§ TOTAL SPORES/m3</b>			<b>310</b>			<b>750</b>

**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.

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The analytical sensitivity is the spores/m<sup>3</sup> divided by the raw count, expressed in spores/m<sup>3</sup>, per spore and per sample.

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

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§ Total Spores/m<sup>3</sup> has been rounded to two significant figures to reflect analytical precision.

Client: Clay Point Associates, Inc.  
 C/O: Mr. Kyle Austin  
 Re: 15965; Montpalian Federal Bldg

Date of Sampling: 11-18-2024  
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 Date of Report: 11-20-2024

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	38937970: E. Bsmnt - CTR Hall			38937969: E. Bsmnt - N. CTR		
Comments (see below)	None			None		
Lab ID-Version‡:	19079782-1			19079783-1		
Analysis Date:	11/20/2024			11/20/2024		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Ascospores						
Basidiospores	14	25	370	16	25	420
Botrytis						
Chaetomium						
Cladosporium	8	25	210	20	25	530
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	6	100	40	7	100	46
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)	1+			1+		
Hyphal fragments/m3	< 7			< 7		
Pollen/m3	< 7			< 7		
Skin cells (1-4+)	1+			1+		
Sample volume (liters)	151			151		
<b>§ TOTAL SPORES/m3</b>			<b>620</b>			<b>1,000</b>

**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.

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The analytical sensitivity is the spores/m<sup>3</sup> divided by the raw count, expressed in spores/m<sup>3</sup>, per spore and per sample.

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

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§ Total Spores/m<sup>3</sup> has been rounded to two significant figures to reflect analytical precision.

Client: Clay Point Associates, Inc.  
 C/O: Mr. Kyle Austin  
 Re: 15965; Montpalian Federal Bldg

Date of Sampling: 11-18-2024  
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 Date of Report: 11-20-2024

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	38937971: E. Bsmnt - S/ CTR			38937974: E. Bsmnt - NW		
Comments (see below)	None			None		
Lab ID-Version‡:	19079784-1			19079785-1		
Analysis Date:	11/20/2024			11/20/2024		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Ascospores						
Basidiospores	18	25	480	14	25	370
Botrytis						
Chaetomium						
Cladosporium	16	25	420	3	25	79
Curvularia						
Epicoccum	1	100	7	1	100	7
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	5	100	33	2	100	13
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)	1+			1+		
Hyphal fragments/m3	< 7			< 7		
Pollen/m3	< 7			< 7		
Skin cells (1-4+)	1+			1+		
Sample volume (liters)	151			151		
<b>§ TOTAL SPORES/m3</b>			<b>940</b>			<b>470</b>

**Comments:**

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The analytical sensitivity is the spores/m<sup>3</sup> divided by the raw count, expressed in spores/m<sup>3</sup>, 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/m<sup>3</sup> has been rounded to two significant figures to reflect analytical precision.

Client: Clay Point Associates, Inc.  
 C/O: Mr. Kyle Austin  
 Re: 15965; Montpalian Federal Bldg

Date of Sampling: 11-18-2024  
 Date of Receipt: 11-19-2024  
 Date of Report: 11-20-2024

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	38937959: Exterior		
Comments (see below)	None		
Lab ID-Version‡:	19079786-1		
Analysis Date:	11/20/2024		
	raw ct.	% read	spores/m3
Ascospores	3	25	79
Basidiospores	19	25	500
Botrytis			
Chaetomium			
Cladosporium	14	25	370
Curvularia			
Epicoccum	1	100	7
Fusarium			
Myrothecium			
Nigrospora			
Other colorless			
Penicillium/Aspergillus types†			
Pithomyces			
Rusts			
Smuts, Periconia, Myxomycetes	81	100	540
Stachybotrys			
Stemphylium			
Torula			
Ulocladium			
Zygomycetes			
Background debris (1-4+)	1+		
Hyphal fragments/m3	< 7		
Pollen/m3	< 7		
Skin cells (1-4+)	< 1+		
Sample volume (liters)	151		
<b>§ TOTAL SPORES/m3</b>			<b>1,500</b>

**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.

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The analytical sensitivity is the spores/m<sup>3</sup> divided by the raw count, expressed in spores/m<sup>3</sup>, per spore and per sample.

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

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§ Total Spores/m<sup>3</sup> has been rounded to two significant figures to reflect analytical precision.

**Eurofins EPK Built Environment Testing, LLC**  
3000 Lincoln Drive East, Suite A, Marlton, NJ 08053  
(866) 871-1984 www.eurofinsus.com/Built

Client: Clay Point Associates, Inc.  
C/O: Mr. Kyle Austin  
Re: 15965; Montpalian Federal Bldg

Date of Sampling: 11-18-2024  
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**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

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**PROJECT ANALYST AND SIGNATORY REPORT**

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**Project Analyst**



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**Analyst:** Katherine Vezza

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by AIHA LAP, LLC, or any agency of the federal government. The Company reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

‡ 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".

Client: Clay Point Associates, Inc.  
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Date of Sampling: 11-18-2024  
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**MoldRANGE™, Local Climate; Extended Outdoor Comparison**  
**Outdoor Location: 38937959, Exterior**

Fungi Identified	Outdoor data	Typical Outdoor Data for: November in Northeast† EMLab Regional Climate code¹						Typical Outdoor Data for: The entire year in Northeast† EMLab Regional Climate code¹					
		B Annual Temp, A Elev., B Rain, A Temp. Range (n‡=331)						B Annual Temp, A Elev., B Rain, A Temp. Range (n‡=3719)					
Project zip code 05602	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
<b>Generally able to grow indoors*</b>													
Alternaria	-	7	7	13	40	53	34	7	13	27	80	130	41
Bipolaris/Drechslera group	-	-	-	-	-	-	4	7	7	13	27	40	6
Chaetomium	-	-	-	-	-	-	2	7	7	13	13	13	2
Cladosporium	370	53	59	240	780	1,300	82	53	110	530	1,900	3,400	82
Curvularia	-	-	-	-	-	-	5	7	7	13	53	110	12
Epicoccum	7	7	13	20	53	54	43	7	13	27	53	110	38
Nigrospora	-	7	7	13	27	27	10	7	7	13	29	53	10
Penicillium/Aspergillus types	-	27	53	110	320	480	45	53	53	160	490	910	41
Stachybotrys	-	-	-	-	-	-	< 1	-	-	-	-	-	< 1
Torula	-	-	-	-	-	-	3	7	10	13	40	53	6
<b>Seldom found growing indoors**</b>													
Ascospores	79	53	80	200	520	930	81	53	110	590	1,900	3,300	80
Basidiospores	500	160	270	1,200	3,100	5,500	97	89	210	1,900	7,100	12,000	95
Rusts	-	7	7	13	27	53	16	7	8	20	55	140	21
Smuts, Periconia, Myxomycetes	540	10	13	40	110	160	70	7	13	40	110	210	57
<b>§ TOTAL SPORES/m3</b>	<b>1,500</b>												

¹EMLab Regional Climate codes are a climate classification scheme for regional geographic areas containing multiple states. The MoldRANGE™ Local Climate report uses the sampling location zip code to identify the EMLab Regional Climate code in that area. Using information available from the NOAA weather database, the EMLab Regional Climate code sharpens the precision of the MoldRANGE™ reporting system, providing more reliable estimates of the range and average concentrations of the different airborne fungal spore types for each region. Additional information on the EMLab Regional Climate code system can be found on the last page of this report.

†The Typical Outdoor Data represents the typical outdoor spore levels across the region's group of states for the time period and EMLab Regional Climate code 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 not enough data is available to make a statistically meaningful assessment, it is indicated with a dash.

‡ n is the sample size used to calculate the MoldRANGE™ Local Climate data summarized in the table.

\* 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.

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

Client: Clay Point Associates, Inc.  
C/O: Mr. Kyle Austin  
Re: 15965; Montpalian Federal Bldg

Date of Sampling: 11-18-2024  
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## Understanding EMLab Regional Climate Codes

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Outdoor airborne spore concentrations are strongly influenced by climate and weather patterns, often resulting in pronounced seasonal and diurnal cycles (Burge 1995). The seasonal climatic changes directly affect the growth cycle of plants, thereby influencing fungal growth, spore maturation, and release cycles. By evaluating outdoor spore concentrations across similar climatic zones rather than for the state as a whole, it is possible to provide a more representative estimate of typical outdoor spore levels and frequency of occurrence for different airborne fungal spore types in a given area.

The EMLab Regional Climate code system is a novel classification system that uses data from the NOAA - National Oceanic and Atmospheric Administration database to define unique climate zones. The following climate variables, for each regional zip code, are obtained from NOAA and assigned a letter code of A (above the regional average for that variable) or B (below the regional average for that variable):

1. Annual High Temperature
2. Elevation
3. Rainfall/Precipitation
4. Monthly Temperature Range

The result is a 4-character code assigned to each statewide zip code, referred to as the Regional Climate Code. Below are some examples of decoded Regional Climate Codes:

**AAAA** = Above avg. Annual High Temperature, Above avg. Elevation, Above avg. Rainfall/Precipitation, Above avg. Monthly Temperature Range  
**AABB** = Above avg. Annual High Temperature, Above avg. Elevation, Below avg. Rainfall/Precipitation, Below avg. Monthly Temperature Range  
**BBA A** = Below avg. Annual High Temperature, Below avg. Elevation, Above avg. Rainfall/Precipitation, Above avg. Monthly Temperature Range

The actual outdoor air sample data from matching regional climate codes in each group of states are then compiled in a manner relating typical spore concentrations and frequency of occurrence.

**The data presented in this report is from the Northeast Region which includes the states of: CT, DE, MA, MD, ME, NH, NJ, NY, PA, RI, and VT**

The NOAA regional climate variables were selected by mapping data points from a subset of approximately 145,000 weather and geographic database entries to over 80,000 outdoor spore trap samples with known zip codes and assessing them using orthogonal array experimental design techniques. The results were then compared to the typical ranges of spore types found when grouping zip codes using the Koppen-Geiger climatic classification system; a commonly used climatic system that provides an objective numerical definition in terms of climatic elements such as temperature, rainfall, and other seasonal characteristics. The EMLab Regional Climate codes showed improved granularity and refinement of the zip code groupings, implying a better representation of the expected range of spore types to be found within an individual zip code.

The values on this report were calculated by obtaining the four variables listed above from the over 585 million data points of weather and geographic information available in the NOAA database, and determining the frequencies and percentile values of spore types by utilizing over 180,000 Eurofins EMLab P&K outdoor spore trap samples with known zip codes.

This report groups regional zip codes in relation to these EMLab Regional Climate codes and summarizes MoldRANGE™ data by month and year within each EMLab Regional Climate code.

### References:

Burge, Harriet, A. Bioaerosols: Boca Raton: Lewis Publishers, pp. 163-171, 1995.

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.

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Client: Clay Point Associates, Inc.  
C/O: Mr. Kyle Austin  
Re: 15965; Montpalian Federal Bldg

Date of Sampling: 11-18-2024  
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Date of Report: 11-20-2024

**MoldRANGE™, Local Climate; Extended Outdoor Comparison**

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**PROJECT ANALYST AND SIGNATORY REPORT**

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**Project Analyst**



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**Analyst:** Katherine Vezza

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‡ 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".

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**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Outdoor Summary:** 38937959: Exterior

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					13 - 210 - 5,300	73
Basidiospores					13 - 370 - 22,000	88
Cladosporium					27 - 440 - 7,800	87
Epicoccum					7 - 27 - 290	18
Penicillium/Aspergillus types					20 - 200 - 2,600	59
Smuts, Periconia, Myxomycetes					7 - 53 - 730	62
<b>Total</b>						

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

**Indoor Samples**

**Location:** 38937975: W. Bsmnt - SW

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)		
Result: 20%	dF: 9 Result: 10.6145 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8889	dF: 5 Result: 0.5750 Critical value: 0.8000 Outside Similar: No	Score: 109 Result: Low		
Species Detected		Spores/m3				
		<100	1K	10K	>100K	
	Basidiospores					53
	Cladosporium					190
	Epicoccum					7
	Smuts, Periconia, Myxomycetes					53
	<b>Total</b>					300

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**Location:** 38937973: W. Bsmnt - MW

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 17%	dF: 9 Result: 10.6145 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.3750 Critical value: 0.8000 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					130
Cladosporium					130
<b>Total</b>					270

**Location:** 38937981: W. Bsmnt - CTR

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 26%	dF: 9 Result: 10.6145 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.4000 Critical value: 0.8000 Outside Similar: No	Score: 115 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					240
Cladosporium					160
<b>Total</b>					400

**Location:** 38937977: W. Bsmnt - NE

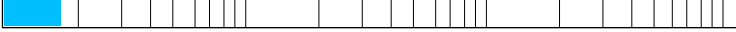

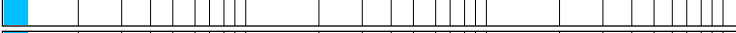
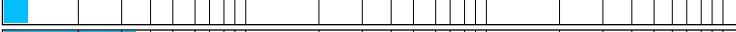

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 24%	dF: 9 Result: 10.6145 Critical value: 16.9190 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.6750 Critical value: 0.8000 Outside Similar: No	Score: 113 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					210
Cladosporium					130
Smuts, Periconia, Myxomycetes					26
<b>Total</b>					370

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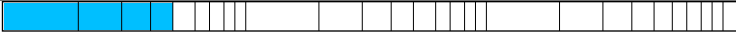
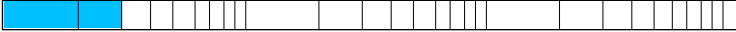
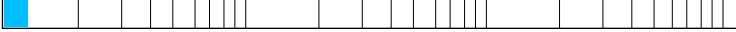

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**Location:** 38937976: W. Bsmnt - SE

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 20%	dF: 9 Result: 10.6145 Critical value: 16.9190 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.6429 Critical value: 0.7714 Outside Similar: No	Score: 109 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					160
Cladosporium					130
Rusts					7
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					310

**Location:** 38937948: E. Bsmnt - SE

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 49%	dF: 9 Result: 10.6145 Critical value: 16.9190 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.6750 Critical value: 0.8000 Outside Similar: No	Score: 128 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					450
Cladosporium					290
Smuts, Periconia, Myxomycetes					7
<b>Total</b>					750

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**Location:** 38937970: E. Bsmnt - CTR Hall

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 41%	dF: 9 Result: 10.6145 Critical value: 16.9190 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.6750 Critical value: 0.8000 Outside Similar: No	Score: 123 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					370
Cladosporium					210
Smuts, Periconia, Myxomycetes					40
<b>Total</b>					620

**Location:** 38937969: E. Bsmnt - N. CTR

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 66%	dF: 9 Result: 10.6145 Critical value: 16.9190 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.5750 Critical value: 0.8000 Outside Similar: No	Score: 122 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					420
Cladosporium					530
Smuts, Periconia, Myxomycetes					46
<b>Total</b>					1,000

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**Location:** 38937971: E. Bsmnt - S/ CTR

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 62%	dF: 9 Result: 10.6145 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8889	dF: 5 Result: 0.6000 Critical value: 0.8000 Outside Similar: No	Score: 126 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					480
Cladosporium					420
Epicoccum					7
Smuts, Periconia, Myxomycetes					33
<b>Total</b>					940

**Location:** 38937974: E. Bsmnt - NW

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 31%	dF: 9 Result: 10.6145 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8889	dF: 5 Result: 0.6000 Critical value: 0.8000 Outside Similar: No	Score: 127 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					370
Cladosporium					79
Epicoccum					7
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					470

\* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

\*\* An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

\*\*\* The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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\*\*\*\* MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. Eurofins EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

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**MoldSTAT™: Supplementary Statistical Spore Trap Report**

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**Project Analyst**



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**Analyst:** Katherine Vezza

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