

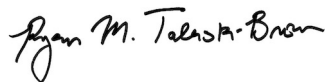
Report for:

Mr. Chad Johnson
Eastern Washington University
312 Eagle Lane
EH&S, 002 Martin Hall
Cheney, WA 99004

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library
EML ID: 3843943

Approved by:

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



Technical Manager
Ryan Talaski-Brown

Service SOPs: Spore trap analysis (EB-MY-S-1038)

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.

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Client: Eastern Washington University
C/O: Mr. Chad Johnson
Re: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library

Date of Sampling: 11-05-2024
Date of Receipt: 11-07-2024
Date of Report: 11-20-2024

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	39210748: Outside air @JFK back loading dock, near air intake.		39210733: Outside air JFK Penthouse in front of P01		39210729: JFK Room U02B		39210735: JFK Outside of Room L23	
Comments (see below)	None		None		A		None	
Lab ID-Version†:	19008541-1		19008543-1		19008545-1		19008547-1	
Analysis Date:	11/11/2024		11/11/2024		11/11/2024		11/11/2024	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores	1	53	4	210				
Basidiospores			5	270				
Bipolaris/Drechslera group	2	27	1	13				
Chaetomium								
Cladosporium	2	110	3	160				
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown			1	13			1	13
Other colorless			1	13				
Penicillium/Aspergillus types†			3	160				
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	36	480	35	470			2	27
Stachybotrys	1	13						
Stemphylium								
Torula								
Ulocladium	1	13						
Zygomycetes								
Background debris (1-4+)	1+		2+		< 1+		2+	
Hyphal fragments/m3	80		93		13		< 13	
Pollen/m3	< 13		80		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		690		1,300		< 13		40

Comments: A) No spores detected.

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: Eastern Washington University
C/O: Mr. Chad Johnson
Re: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library

Date of Sampling: 11-05-2024
Date of Receipt: 11-07-2024
Date of Report: 11-20-2024

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	39210751: JFK Inside of Room L23		39210736: JFK Inside Room MD4F		39210746: JFK Inside Room M14		39210727: JFK Inside Room M22	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	19008549-1		19008551-1		19008553-1		19008555-1	
Analysis Date:	11/11/2024		11/11/2024		11/11/2024		11/11/2024	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores								
Basidiospores			1	53				
Bipolaris/Drechslera group								
Chaetomium								
Cladosporium			3	160				
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†	1	53	1	53				
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes					1	13	1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)	2+		2+		2+		2+	
Hyphal fragments/m3	27		13		< 13		13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	2+		2+		2+		2+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		53		270		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.

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

Client: Eastern Washington University
C/O: Mr. Chad Johnson
Re: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library

Date of Sampling: 11-05-2024
Date of Receipt: 11-07-2024
Date of Report: 11-20-2024

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	39210749: JFK Inside Room M23C		39210725: JFK @ Refrence desk area		39208562: JFK Front Lobby area	
Comments (see below)	None		None		None	
Lab ID-Version†:	19008557-1		19008559-1		19008561-1	
Analysis Date:	11/11/2024		11/11/2024		11/11/2024	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores						
Basidiospores	1	53				
Bipolaris/Drechslera group						
Chaetomium						
Cladosporium			1	53		
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†	1	53	1	53	1	53
Pithomyces						
Rusts	1	13				
Smuts, Periconia, Myxomycetes	1	13				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)	2+		1+		1+	
Hyphal fragments/m3	< 13		< 13		27	
Pollen/m3	13		13		< 13	
Skin cells (1-4+)	2+		1+		2+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		130		110		53

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

Client: Eastern Washington University

C/O: Mr. Chad Johnson

Re: JFK Library; Air Quality Sampling of 11 sites in
and around JFK Library

Date of Sampling: 11-05-2024

Date of Receipt: 11-07-2024

Date of Report: 11-20-2024

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Alys Bos

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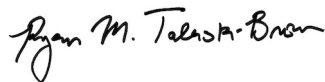
Report for:

Mr. Chad Johnson
Eastern Washington University
312 Eagle Lane
EH&S, 002 Martin Hall
Cheney, WA 99004

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library
EML ID: 3843943

Approved by:

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



Technical Manager
Ryan Talaski-Brown

Service SOPs: Spore trap analysis (EB-MY-S-1038)

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.

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Re: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library

Date of Sampling: 11-05-2024

Date of Receipt: 11-07-2024

Date of Report: 11-20-2024

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	39210748: Outside air @JFK back loading dock, near air intake.				39210733: Outside air JFK Penthouse in front of P01				39210729: JFK Room U02B				39210735: JFK Outside of Room L23			
Comments (see below)	None				None				A				None			
Lab ID-Version‡:	19008541-1				19008543-1				19008545-1				19008547-1			
Analysis Date:	11/11/2024				11/11/2024				11/11/2024				11/11/2024			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)	1+				2+				< 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	6	80	13	n/a	7	93	13	n/a	1	13	13	n/a				
Pollen					6	80	13	n/a								
§ TOTAL FUNGAL SPORES	43	690	n/a	100	53	1,300	n/a	100		< 13	n/a	100	3	40	n/a	100
Ascospores	1	53	53	8	4	210	53	16								
Basidiospores					5	270	53	20								
Bipolaris/Drechslera group	2	27	13	4	1	13	13	1								
Chaetomium																
Cladosporium	2	110	53	15	3	160	53	12								
Other brown					1	13	13	1					1	13	13	33
Other colorless					1	13	13	1								
Penicillium/Aspergillus types					3	160	53	12								
Smuts, Periconia, Myxomycetes	36	480	13	69	35	470	13	36					2	27	13	67
Stachybotrys	1	13	13	2												
Ulocladium	1	13	13	2												

Comments: A) No spores detected.

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.

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

Client: Eastern Washington University
C/O: Mr. Chad Johnson
Re: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library

Date of Sampling: 11-05-2024
Date of Receipt: 11-07-2024
Date of Report: 11-20-2024

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	39210751: JFK Inside of Room L23				39210736: JFK Inside Room MD4F				39210746: JFK Inside Room M14				39210727: JFK Inside Room M22			
Comments (see below)	None				None				None				None			
Lab ID-Version‡:	19008549-1				19008551-1				19008553-1				19008555-1			
Analysis Date:	11/11/2024				11/11/2024				11/11/2024				11/11/2024			
Sample volume (liters)	75				75				75				75			
Background debris (1-4+)	2+				2+				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	1	13	13	n/a					1	13	13	n/a
Pollen																
§ TOTAL FUNGAL SPORES	1	53	n/a	100	5	270	n/a	100	1	13	n/a	100	1	13	n/a	100
Ascospores																
Basidiospores					1	53	53	20								
Bipolaris/Drechslera group																
Chaetomium																
Cladosporium					3	160	53	60								
Other brown																
Other colorless																
Penicillium/Aspergillus types	1	53	53	100	1	53	53	20								
Rusts																
Smuts, Periconia, Myxomycetes									1	13	13	100	1	13	13	100
Stachybotrys																
Ulocladium																
Zygomycetes																

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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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	39210749: JFK Inside Room M23C				39210725: JFK @ Refrence desk area				39208562: JFK Front Lobby area			
Comments (see below)	None				None				None			
Lab ID-Version‡:	19008557-1				19008559-1				19008561-1			
Analysis Date:	11/11/2024				11/11/2024				11/11/2024			
Sample volume (liters)	75				75				75			
Background debris (1-4+)	2+				1+				1+			
	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	1	13	13	n/a	1	13	13	n/a				
§ TOTAL FUNGAL SPORES	4	130	n/a	100	2	110	n/a	100	1	53	n/a	100
Ascospores												
Basidiospores	1	53	53	40								
Bipolaris/Drechslera group												
Chaetomium												
Cladosporium					1	53	53	50				
Other brown												
Other colorless												
Penicillium/Aspergillus types	1	53	53	40	1	53	53	50	1	53	53	100
Rusts	1	13	13	10								
Smuts, Periconia, Myxomycetes	1	13	13	10								
Stachybotrys												
Ulocladium												
Zygomycetes												

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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Client: Eastern Washington University

C/O: Mr. Chad Johnson

Re: JFK Library; Air Quality Sampling of 11 sites in
and around JFK Library

Date of Sampling: 11-05-2024

Date of Receipt: 11-07-2024

Date of Report: 11-20-2024

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Alys Bos

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Mr. Chad Johnson
Eastern Washington University
312 Eagle Lane
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Cheney, WA 99004

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library
EML ID: 3843943

Approved by:

Dates of Analysis:

Spore trap analysis other particles-Supplement: 11-11-2024



Technical Manager
Ryan Talaski-Brown

Service SOPs: Spore trap analysis other particles-Supplement (EM-MY-S-1038)

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.

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C/O: Mr. Chad Johnson
Re: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library

Date of Sampling: 11-05-2024
Date of Receipt: 11-07-2024
Date of Report: 11-20-2024

OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

Location:	39210748: Outside air @JFK back loading dock, near air intake.		39210733: Outside air JFK Penthose in front of P01		39210729: JFK Room U02B		39210735: JFK Outside of Room L23	
Comments (see below)	None		None		None		None	
Lab ID-Version†:	19008542-1		19008544-1		19008546-1		19008548-1	
	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3
POLLEN								
Chenopods (Chenopodiaceae)			1	13				
Oak (Quercus)								
Other			5	67				
Pine (Pinaceae)								
Ragweed (Ambrosiaceae)								
Sycamore (Platanus)								
OTHER PLANT								
Algae								
Diatoms								
Fern, moss, etc. spores								
Other (wood, trichomes, etc.)			1	13				
OTHER PARTICLES:								
ANIMAL								
Epithelial (skin) cells	4	53	35	470	81	1,100	90	1,200
Hair								
Insect parts								
Lepidoptera wing scale					1	13		
Mites								
FUNGI								
Hyphal fragments	2	27	7	93	1	13		
NON-BIOLOGICAL								
Cellulose fibers			15	200	10	130	17	230
Glass fiber	1	13	3	40	1	13		
Starch particles	3	40	15	200	14	190	14	190
Synthetic fibers			1	13				
Background debris (1-4+)†	1+		2+		< 1+		2+	
Sample volume (liters)	75		75		75		75	

Comments:

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

Carbonaceous particles include soot and other combustion products. In most instances a detailed analysis of soot can be accomplished using scanning electron microscopy.

Note: Interpretation is left to the company and/or persons who conducted the field work.

† Background debris is an indication of the amounts of non-biological particulate matter present on the slide (dust in the air) and is graded from 1+ to 4+ with 4+ indicating the largest amounts. To evaluate dust levels it is important to account for differences in sample volume.

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Date of Receipt: 11-07-2024
Date of Report: 11-20-2024

OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

Location:	39210751: JFK Inside of Room L23		39210736: JFK Inside Room MD4F		39210746: JFK Inside Room M14		39210727: JFK Inside Room M22	
Comments (see below)	None		None		None		None	
Lab ID-Version†:	19008550-1		19008552-1		19008554-1		19008556-1	
	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3
POLLEN								
Chenopods (Chenopodiaceae)								
Oak (Quercus)								
Other								
Pine (Pinaceae)								
Ragweed (Ambrosiaceae)								
Sycamore (Platanus)								
OTHER PLANT								
Algae								
Diatoms								
Fern, moss, etc. spores								
Other (wood, trichomes, etc.)	2	27					1	13
OTHER PARTICLES:								
ANIMAL								
Epithelial (skin) cells	135	1,800	308	4,100	209	2,800	191	2,500
Hair								
Insect parts								
Lepidoptera wing scale								
Mites								
FUNGI								
Hyphal fragments	1	13	1	13			2	27
NON-BIOLOGICAL								
Cellulose fibers	33	440	43	570	26	350	37	490
Glass fiber			1	13			1	13
Starch particles	9	120	22	290	17	230	13	170
Synthetic fibers	3	40			2	27	3	40
Background debris (1-4+)†	2+		2+		2+		2+	
Sample volume (liters)	75		75		75		75	

Comments:

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

Carbonaceous particles include soot and other combustion products. In most instances a detailed analysis of soot can be accomplished using scanning electron microscopy.

Note: Interpretation is left to the company and/or persons who conducted the field work.

† Background debris is an indication of the amounts of non-biological particulate matter present on the slide (dust in the air) and is graded from 1+ to 4+ with 4+ indicating the largest amounts. To evaluate dust levels it is important to account for differences in sample volume.

‡ 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: Eastern Washington University
C/O: Mr. Chad Johnson
Re: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library

Date of Sampling: 11-05-2024
Date of Receipt: 11-07-2024
Date of Report: 11-20-2024

OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

Location:	39210749: JFK Inside Room M23C		39210725: JFK @ Reference desk area		39208562: JFK Front Lobby area	
Comments (see below)	None		None		None	
Lab ID-Version†:	19008558-1		19008560-1		19008562-1	
	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3
POLLEN						
Chenopods (Chenopodiaceae)						
Mulberry (Morus)						
Oak (Quercus)						
Other			1	13		
Pine (Pinaceae)	1	13				
Ragweed (Ambrosieae)						
Sycamore (Platanus)						
OTHER PLANT						
Algae						
Diatoms						
Fern, moss, etc. spores	1	13				
Other (wood, trichomes, etc.)	2	27				
OTHER PARTICLES:						
ANIMAL						
Epithelial (skin) cells	209	2,800	101	1,300	152	2,000
Hair						
Insect parts						
Lepidoptera wing scale						
Mites						
FUNGI						
Hyphal fragments	2	27			2	27
NON-BIOLOGICAL						
Cellulose fibers	32	430	23	310	23	310
Glass fiber	1	13				
Starch particles	29	390	12	160	17	230
Synthetic fibers						
Background debris (1-4+)‡	2+		1+		2+	
Sample volume (liters)	75		75		75	

Comments:

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

Carbonaceous particles include soot and other combustion products. In most instances a detailed analysis of soot can be accomplished using scanning electron microscopy.

Note: Interpretation is left to the company and/or persons who conducted the field work.

† Background debris is an indication of the amounts of non-biological particulate matter present on the slide (dust in the air) and is graded from 1+ to 4+ with 4+ indicating the largest amounts. To evaluate dust levels it is important to account for differences in sample volume.

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and around JFK Library

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Date of Receipt: 11-07-2024
Date of Report: 11-20-2024

OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY
PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Alys Bos

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Re: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library

Date of Sampling: 11-05-2024
Date of Receipt: 11-07-2024
Date of Report: 11-20-2024

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 39210748, Outside air @JFK back loading dock, near air intake.

Fungi Identified	Outdoor data	Typical Outdoor Data for:						Typical Outdoor Data for:					
		November in Washington† (n‡=1869)						The entire year in Washington† (n‡=24680)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	7	13	20	53	80	13	7	13	20	53	93	18
Bipolaris/Drechslera group	27	7	7	13	13	27	3	7	7	13	27	53	3
Chaetomium	-	7	7	13	32	67	4	7	7	13	27	53	5
Cladosporium	110	53	110	270	1,000	2,100	83	53	110	370	1,300	2,600	82
Curvularia	-	7	12	13	19	38	1	7	7	13	40	68	2
Nigrospora	-	7	7	13	16	46	2	7	7	13	27	53	2
Other brown	-	7	11	13	53	53	21	7	11	13	53	53	25
Other colorless	-	7	11	13	40	53	5	7	7	13	53	53	5
Penicillium/Aspergillus types	-	55	110	350	960	1,700	92	53	110	270	690	1,200	89
Stachybotrys	13	7	13	13	85	160	2	7	7	13	67	210	2
Torula	-	7	7	13	53	78	3	7	7	13	47	53	5
Ulocladium	13	7	7	13	13	13	2	7	7	13	24	36	2
Seldom found growing indoors**													
Ascospores	53	110	240	910	2,600	4,300	93	53	110	490	1,700	3,100	90
Basidiospores	-	230	650	2,900	9,500	17,000	97	110	270	1,100	4,000	7,700	96
Rusts	-	7	7	13	40	53	12	7	13	20	53	110	17
Smuts, Periconia, Myxomycetes	480	13	13	40	110	230	48	13	13	47	170	470	49
§ TOTAL SPORES/m3	690												

†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.

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Client: Eastern Washington University
C/O: Mr. Chad Johnson
Re: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library

Date of Sampling: 11-05-2024
Date of Receipt: 11-07-2024
Date of Report: 11-20-2024

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 39210733, Outside air JFK Penthouse in front of P01

Fungi Identified	Outdoor data	Typical Outdoor Data for:						Typical Outdoor Data for:					
		November in Washington† (n‡=1869)						The entire year in Washington† (n‡=24680)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	7	13	20	53	80	13	7	13	20	53	93	18
Bipolaris/Drechslera group	13	7	7	13	13	27	3	7	7	13	27	53	3
Chaetomium	-	7	7	13	32	67	4	7	7	13	27	53	5
Cladosporium	160	53	110	270	1,000	2,100	83	53	110	370	1,300	2,600	82
Curvularia	-	7	12	13	19	38	1	7	7	13	40	68	2
Nigrospora	-	7	7	13	16	46	2	7	7	13	27	53	2
Other brown	13	7	11	13	53	53	21	7	11	13	53	53	25
Other colorless	13	7	11	13	40	53	5	7	7	13	53	53	5
Penicillium/Aspergillus types	160	55	110	350	960	1,700	92	53	110	270	690	1,200	89
Stachybotrys	-	7	13	13	85	160	2	7	7	13	67	210	2
Torula	-	7	7	13	53	78	3	7	7	13	47	53	5
Ulocladium	-	7	7	13	13	13	2	7	7	13	24	36	2
Seldom found growing indoors**													
Ascospores	210	110	240	910	2,600	4,300	93	53	110	490	1,700	3,100	90
Basidiospores	270	230	650	2,900	9,500	17,000	97	110	270	1,100	4,000	7,700	96
Rusts	-	7	7	13	40	53	12	7	13	20	53	110	17
Smuts, Periconia, Myxomycetes	470	13	13	40	110	230	48	13	13	47	170	470	49
§ TOTAL SPORES/m3	1,300												

†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.

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Client: Eastern Washington University
C/O: Mr. Chad Johnson
Re: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library

Date of Sampling: 11-05-2024
Date of Receipt: 11-07-2024
Date of Report: 11-20-2024

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 39210735, JFK Outside of Room L23

Fungi Identified	Outdoor data	Typical Outdoor Data for:						Typical Outdoor Data for:					
		November in Washington† (n‡=1869)						The entire year in Washington† (n‡=24680)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	7	13	20	53	80	13	7	13	20	53	93	18
Bipolaris/Drechslera group	-	7	7	13	13	27	3	7	7	13	27	53	3
Chaetomium	-	7	7	13	32	67	4	7	7	13	27	53	5
Cladosporium	-	53	110	270	1,000	2,100	83	53	110	370	1,300	2,600	82
Curvularia	-	7	12	13	19	38	1	7	7	13	40	68	2
Nigrospora	-	7	7	13	16	46	2	7	7	13	27	53	2
Other brown	13	7	11	13	53	53	21	7	11	13	53	53	25
Other colorless	-	7	11	13	40	53	5	7	7	13	53	53	5
Penicillium/Aspergillus types	-	55	110	350	960	1,700	92	53	110	270	690	1,200	89
Stachybotrys	-	7	13	13	85	160	2	7	7	13	67	210	2
Torula	-	7	7	13	53	78	3	7	7	13	47	53	5
Ulocladium	-	7	7	13	13	13	2	7	7	13	24	36	2
Seldom found growing indoors**													
Ascospores	-	110	240	910	2,600	4,300	93	53	110	490	1,700	3,100	90
Basidiospores	-	230	650	2,900	9,500	17,000	97	110	270	1,100	4,000	7,700	96
Rusts	-	7	7	13	40	53	12	7	13	20	53	110	17
Smuts, Periconia, Myxomycetes	27	13	13	40	110	230	48	13	13	47	170	470	49
§ TOTAL SPORES/m3	40												

†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.

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and around JFK Library

Date of Sampling: 11-05-2024
Date of Receipt: 11-07-2024
Date of Report: 11-20-2024

MoldRANGE™: Extended Outdoor Comparison

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Alys Bos

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Date of Sampling: 11-05-2024
 Date of Receipt: 11-07-2024
 Date of Report: 11-20-2024

MoldSTAT™: Supplementary Statistical Spore Trap Report


Outdoor Summary: 39210748: Outside air @JFK back loading dock, near air intake.

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				53	13 - 210 - 5,300	73
Basidiospores				< 13	13 - 370 - 22,000	88
Bipolaris/Drechslera group				27	7 - 13 - 170	13
Cladosporium				110	27 - 440 - 7,800	87
Penicillium/Aspergillus types				< 13	20 - 200 - 2,600	59
Smuts, Periconia, Myxomycetes				480	7 - 53 - 730	62
Stachybotrys				13	7 - 13 - 390	2
Ulocladium				13	7 - 13 - 150	4
Total				690		



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: 39210729: JFK Room U02B

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
None Detected				< 13

Location: 39210751: JFK Inside of Room L23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 7%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.0000	dF: 7 Result: -0.0536 Critical value: 0.6786 Outside Similar: No	Score: 108 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Penicillium/Aspergillus types				53
Total				53

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Date of Sampling: 11-05-2024
 Date of Receipt: 11-07-2024
 Date of Report: 11-20-2024

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 39210736: JFK Inside Room MD4F

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)									
Result: 38%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: -0.0655 Critical value: 0.6190 Outside Similar: No	Score: 109 Result: Low									
Species Detected		Spores/m3											
		<100			1K			10K			>100K		
Basidiospores		<div><div></div></div>											53
Cladosporium		<div><div></div></div>											160
Penicillium/Aspergillus types		<div><div></div></div>											53
Total		<div><div></div></div>	<div><div></div></div>										270

Location: 39210746: JFK Inside Room M14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.7286 Critical value: 0.7714 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div> 13
Total		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div> 13

Location: 39210727: JFK Inside Room M22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)										
Result: 1%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.7286 Critical value: 0.7714 Outside Similar: No	Score: 102 Result: Low										
Species Detected		Spores/m3												
		<100			1K			10K			>100K			
Smuts, Periconia, Myxomycetes		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	13
Total		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	13

Client: Eastern Washington University
C/O: Mr. Chad Johnson
Re: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library

Date of Sampling: 11-05-2024
Date of Receipt: 11-07-2024
Date of Report: 11-20-2024

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 39210749: JFK Inside Room M23C

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)										
Result: 18%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: -0.3792 Critical value: 0.5833 Outside Similar: No	Score: 108 Result: Low										
Species Detected		Spores/m3												
		<100			1K			10K			>100K			
Basidiospores		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	53
Penicillium/Aspergillus types		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	53
Rusts		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	13
Smuts, Periconia, Myxomycetes		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	13
Total		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	130

Location: 39210725: JFK @ Reference desk area

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 15%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.0714 Critical value: 0.6786 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div> 53
Penicillium/Aspergillus types		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div> 53
Total		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div> 110

Location: 39208562: JFK Front Lobby area

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 7%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.0000	dF: 7 Result: -0.0536 Critical value: 0.6786 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>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Client: Eastern Washington University

C/O: Mr. Chad Johnson

Re: JFK Library; Air Quality Sampling of 11 sites in
and around JFK Library

Date of Sampling: 11-05-2024

Date of Receipt: 11-07-2024

Date of Report: 11-20-2024

MoldSTAT™: Supplementary Statistical Spore Trap Report

* 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.

**** 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.

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 ranges" 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. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. Eurofins EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Alys Bos

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 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.









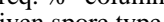
‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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


Outdoor Summary: 39210733: Outside air JFK Penthouse in front of P01

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				210	13 - 210 - 5,300	73
Basidiospores				270	13 - 370 - 22,000	88
Bipolaris/Drechslera group				13	7 - 13 - 170	13
Cladosporium				160	27 - 440 - 7,800	87
Other brown				13	7 - 13 - 160	25
Other colorless				13	7 - 27 - 490	4
Penicillium/Aspergillus types				160	20 - 200 - 2,600	59
Smuts, Periconia, Myxomycetes				470	7 - 53 - 730	62
Total				1,300		







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: 39210729: JFK Room U02B

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
None Detected				

Location: 39210751: JFK Inside of Room L23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.3631 Critical value: 0.6190 Outside Similar: No	Score: 108 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
Penicillium/Aspergillus types				
Total				

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 39210736: JFK Inside Room MD4F

% 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: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: 0.3631 Critical value: 0.6190 Outside Similar: No	Score: 109 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
Basidiospores				53
Cladosporium				160
Penicillium/Aspergillus types				53
Total				270

Location: 39210746: JFK Inside Room M14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.6964 Critical value: 0.6190 Outside Similar: Yes	Score: 102 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
Smuts, Periconia, Myxomycetes				13
Total				13

Location: 39210727: JFK Inside Room M22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.6964 Critical value: 0.6190 Outside Similar: Yes	Score: 102 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
Smuts, Periconia, Myxomycetes				13
Total				13

Client: Eastern Washington University
 C/O: Mr. Chad Johnson
 Re: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library

Date of Sampling: 11-05-2024
 Date of Receipt: 11-07-2024
 Date of Report: 11-20-2024

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 39210749: JFK Inside Room M23C

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)										
Result: 10%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.5000	dF: 9 Result: 0.4333 Critical value: 0.5833 Outside Similar: No	Score: 107 Result: Low										
Species Detected		Spores/m3												
		<100			1K			10K			>100K			
Basidiospores		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	53
Penicillium/Aspergillus types		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	53
Rusts		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	13
Smuts, Periconia, Myxomycetes		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	13
Total		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	130

Location: 39210725: JFK @ Reference desk area

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)										
Result: 8%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.2440 Critical value: 0.6190 Outside Similar: No	Score: 107 Result: Low										
Species Detected		Spores/m3												
		<100	1K				10K				>100K			
Cladosporium		<div></div>												53
Penicillium/Aspergillus types		<div></div>												53
Total		<div></div>												110

Location: 39208562: JFK Front Lobby area

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 4%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.3631 Critical value: 0.6190 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>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Client: Eastern Washington University

C/O: Mr. Chad Johnson

Re: JFK Library; Air Quality Sampling of 11 sites in
and around JFK Library

Date of Sampling: 11-05-2024

Date of Receipt: 11-07-2024

Date of Report: 11-20-2024

MoldSTAT™: Supplementary Statistical Spore Trap Report

* 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.

**** 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.

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 ranges" 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. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. Eurofins EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Alys Bos

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 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".

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Date of Sampling: 11-05-2024
Date of Receipt: 11-07-2024
Date of Report: 11-20-2024

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 39210735: JFK Outside of Room L23

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
Other brown					7 - 13 - 160	25
Penicillium/Aspergillus types					20 - 200 - 2,600	59
Smuts, Periconia, Myxomycetes					7 - 53 - 730	62
Total						

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: 39210729: JFK Room U02B

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					< 13

Location: 39210751: JFK Inside of Room L23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 132%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.0000	dF: 3 Result: -0.6250 Critical value: N/A Outside Similar: N/A	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>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Client: Eastern Washington University
 C/O: Mr. Chad Johnson
 Re: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library

Date of Sampling: 11-05-2024
 Date of Receipt: 11-07-2024
 Date of Report: 11-20-2024

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 39210736: JFK Inside Room MD4F

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 665%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.0000	dF: 5 Result: -0.6000 Critical value: 0.8000 Outside Similar: No	Score: 110 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
Basidiospores				53
Cladosporium				160
Penicillium/Aspergillus types				53
Total				270

Location: 39210746: JFK Inside Room M14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 32%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6667	dF: 2 Result: 1.0000 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
Smuts, Periconia, Myxomycetes				13
Total				13

Location: 39210727: JFK Inside Room M22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 32%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6667	dF: 2 Result: 1.0000 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
Smuts, Periconia, Myxomycetes				13
Total				13

Client: Eastern Washington University
 C/O: Mr. Chad Johnson
 Re: JFK Library; Air Quality Sampling of 11 sites in and around JFK Library

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 Date of Report: 11-20-2024

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 39210749: JFK Inside Room M23C

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)									
Result: 330%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.4000 Critical value: 0.8000 Outside Similar: No	Score: 108 Result: Low									
Species Detected		Spores/m3											
		<100	1K			10K			>100K				
Basidiospores		<div></div>											53
Penicillium/Aspergillus types		<div></div>											53
Rusts		<div></div>											13
Smuts, Periconia, Myxomycetes		<div></div>											13
Total		<div></div>											130

Location: 39210725: JFK @ Reference desk area

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)													
Result: 265%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.0000	dF: 4 Result: -0.6500 Critical value: N/A Outside Similar: N/A	Score: 108 Result: Low													
Species Detected		Spores/m3															
		<100				1K				10K				>100K			
Cladosporium		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	53	
Penicillium/Aspergillus types		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	53	
Total		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	110	

Location: 39208562: JFK Front Lobby area

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 132%	dF: 7 Result: 6.4833 Critical value: 14.0671 Inside Similar: Yes	Result: 0.0000	dF: 3 Result: -0.6250 Critical value: N/A Outside Similar: N/A	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>			53
Total		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>			53

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MoldSTAT™: Supplementary Statistical Spore Trap Report

* 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.

**** 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.

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 ranges" 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. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. Eurofins EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Alys Bos

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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".