

The following sample was collected
from Martin Hall room 253.



Report for:

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

Regarding: Project: Martin Hall
EML ID: 1933804

Approved by:

Operations Manager
Joshua Cox

Dates of Analysis:
Spore trap analysis: 05-29-2018

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #102297

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 items tested.

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EMLab P&K'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: Eastern Washington University
C/O: Mr. Chad Johnson
Re: Martin HallDate of Sampling: 05-24-2018
Date of Receipt: 05-25-2018
Date of Report: 05-29-2018**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	2602 7863: MAR 253		2602 7857: MAR Courtyard	
Comments (see below)	None		None	
Lab ID-Version‡:	9098878-1		9098879-1	
Analysis Date:	05/29/2018		05/29/2018	
	raw ct.	spores/m ³	raw ct.	spores/m ³
Alternaria			23	310
Ascospores			28	1,500
Basidiospores	2	110	139	7,400
Chaetomium				
Cladosporium			96	5,100
Curvularia				
Epicoccum			2	27
Fusarium				
Myrothecium				
Nigrospora				
Other brown	1	13	3	40
Other colorless			2	27
Penicillium/Aspergillus types†				
Pithomyces				
Rusts			6	80
Smuts, Periconia, Myxomycetes	3	40	103	5,500
Stachybotrys				
Stemphylium			1	13
Torula			5	67
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	2+		2+	
Hyphal fragments/m ³	< 13		27	
Pollen/m ³	< 13		110	
Skin cells (1-4+)	1+		< 1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m³		160		20,000

Comments:

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

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

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

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³. The limit of detection is the analytical sensitivity (in spores/m³) multiplied by the sample volume (in liters) divided by 1000 liters.

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.



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Spore trap analysis: 05-29-2018

Service SOPs: Spore trap analysis (EM-MY-S-1038)
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Client: Eastern Washington University
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 Re: Martin Hall

Date of Sampling: 05-24-2018
 Date of Receipt: 05-25-2018
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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	2602 7863: MAR 253				2602 7857: MAR Courtyard			
Comments (see below)	None				None			
Lab ID-Version‡:	9098878-1				9098879-1			
Analysis Date:	05/29/2018				05/29/2018			
Sample volume (liters)	75				75			
Background debris (1-4+)††	2+				2+			
	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments					2	27	13	n/a
Pollen					8	110	13	n/a
§ TOTAL FUNGAL SPORES	6	160	n/a	100	408	20,000	n/a	100
Alternaria					23	310	13	2
Ascospores					28	1,500	53	7
Basidiospores	2	110	53	67	139	7,400	53	37
Chaetomium								
Cladosporium					96	5,100	53	25
Epicoccum					2	27	13	< 1
Other brown	1	13	13	8	3	40	13	< 1
Other colorless					2	27	13	< 1
Penicillium/Aspergillus types								
Rusts					6	80	13	< 1
Smuts, Periconia, Myxomycetes	3	40	13	25	103	5,500	53	27
Stachybotrys								
Stemphylium					1	13	13	< 1
Torula					5	67	13	< 1

Comments:

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

The analytical sensitivity/limit of detection is the Count/m³ divided by the raw count, expressed in Count/m³.

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

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

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

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



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Operations Manager
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Dates of Analysis:

Spore trap analysis other particles-Supplement: 05-29-2018

Service SOPs: Spore trap analysis other particles-Supplement (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #102297

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Client: Eastern Washington University
C/O: Mr. Chad Johnson
Re: Martin HallDate of Sampling: 05-24-2018
Date of Receipt: 05-25-2018
Date of Report: 05-29-2018**OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY**

Location:	2602 7863: MAR 253		2602 7857: MAR Courtyard	
Comments (see below)	None		None	
Lab ID-Version‡:	9102589-1		9102590-1	
	raw ct.	particles/m3	raw ct.	particles/m3
POLLEN				
Eucalyptus (Eucalyptus)				
Grass (Poaceae)				
Mulberry (Morus)				
Oak (Quercus)				
Other			5	67
Pine (Pinaceae)			3	40
Ragweed (Ambrosieae)				
Sycamore (Platanus)				
OTHER PLANT				
Algae				
Diatoms				
Fern, moss, etc. spores				
Other (wood, trichomes, etc.)			6	80
OTHER PARTICLES:				
ANIMAL				
Epithelial (skin) cells	39	2,100	9	120
Hair				
Insect parts			1	13
Mites				
FUNGI				
Hyphal fragments			2	27
NON-BIOLOGICAL				
Cellulose fibers	12	160	6	80
Glass fiber	1	13	1	13
Starch particles	2	27		
Synthetic fibers	1	13		
Background debris (1-4+)†	2+		2+	
Sample volume (liters)	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".
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