

The following samples were collected from Martin Hall rooms:

- 114
- 249



Report for:

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

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Regarding: Project: Martin Hall; IAQ  
EML ID: 1929366

Approved by:

A handwritten signature in black ink that reads "Joshua T. Cox". The signature is written in a cursive style.

Operations Manager  
Joshua Cox

Dates of Analysis:  
Spore trap analysis: 05-18-2018

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

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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 items tested.

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Client: Eastern Washington University  
 C/O: Mr. Chad Johnson  
 Re: Martin Hall; IAQ

Date of Sampling: 05-15-2018  
 Date of Receipt: 05-17-2018  
 Date of Report: 05-18-2018

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

Location:	25999384: MAR114; Air-O-Cell		26001336: MAR Courtyard; Air-O-Cell		26001334: MAR249; Air-O-Cell	
Comments (see below)	None		None		None	
Lab ID-Version‡:	9074303-1		9074305-1		9074307-1	
Analysis Date:	05/18/2018		05/18/2018		05/18/2018	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			23	310	1	13
Ascospores	1	53	13	690	1	53
Basidiospores	3	160	24	1,300	1	53
Chaetomium						
Cladosporium			80	4,300		
Epicoccum	1	13	3	40		
Myrothecium						
Nigrospora						
Oidium			3	40		
Other brown	1	13			1	13
Other colorless						
Penicillium/Aspergillus types†			4	210	1	53
Pithomyces						
Rusts			2	27		
Smuts, Periconia, Myxomycetes	2	27	11	150	3	40
Stachybotrys						
Stemphylium			1	13		
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		3+		3+	
Hyphal fragments/m3	13		80		< 13	
Pollen/m3	27		1,600		13	
Skin cells (1-4+)	1+		< 1+		1+	
Sample volume (liters)	75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>270</b>		<b>7,000</b>		<b>230</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>. The limit of detection is the analytical sensitivity (in spores/m<sup>3</sup>) 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/m<sup>3</sup> has been rounded to two significant figures to reflect analytical precision.



Report for:

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

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Regarding: Project: Martin Hall; IAQ  
EML ID: 1929366

Approved by:

Operations Manager  
Joshua Cox

Dates of Analysis:  
Spore trap analysis: 05-18-2018

Service SOPs: Spore trap analysis (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 Hall; IAQ

Date of Sampling: 05-15-2018  
Date of Receipt: 05-17-2018  
Date of Report: 05-18-2018

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

Location:	25999384: MAR114; Air-O-Cell				26001336: MAR Courtyard; Air-O-Cell				26001334: MAR249; Air-O-Cell			
Comments (see below)	None				None				None			
Lab ID-Version†:	9074303-1				9074305-1				9074307-1			
Analysis Date:	05/18/2018				05/18/2018				05/18/2018			
Sample volume (liters)	75				75				75			
Background debris (1-4+)‡	3+				3+				3+			
	raw ct.	Count/m <sup>3</sup>	DL/m <sup>3</sup> *	%	raw ct.	Count/m <sup>3</sup>	DL/m <sup>3</sup> *	%	raw ct.	Count/m <sup>3</sup>	DL/m <sup>3</sup> *	%
Hyphal fragments	1	13	13	n/a	6	80	13	n/a				
Pollen	2	27	13	n/a	120	1,600	13	n/a	1	13	13	n/a
§ TOTAL FUNGAL SPORES	8	270	n/a	100	164	7,000	n/a	100	8	230	n/a	100
Alternaria					23	310	13	4	1	13	13	6
Ascospores	1	53	53	20	13	690	53	10	1	53	53	24
Basidiospores	3	160	53	60	24	1,300	53	18	1	53	53	24
Chaetomium												
Cladosporium					80	4,300	53	61				
Epicoccum	1	13	13	5	3	40	13	1				
Oidium					3	40	13	1				
Other brown	1	13	13	5					1	13	13	6
Penicillium/Aspergillus types					4	210	53	3	1	53	53	24
Rusts					2	27	13	<1				
Smuts, Periconia, Myxomycetes	2	27	13	10	11	150	13	2	3	40	13	18
Stachybotrys												
Stemphylium					1	13	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/m<sup>3</sup> divided by the raw count, expressed in Count/m<sup>3</sup>.

\*The detection limit/limit of detection (DL) per cubic meter (m<sup>3</sup>) 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.



Report for:

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

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Regarding: Project: Martin Hall; IAQ  
EML ID: 1929366

Approved by:

Operations Manager  
Joshua Cox

Dates of Analysis:

Spore trap analysis other particles-Supplement: 05-18-2018

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

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 C/O: Mr. Chad Johnson  
 Re: Martin Hall; IAQ

Date of Sampling: 05-15-2018  
 Date of Receipt: 05-17-2018  
 Date of Report: 05-18-2018

**OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY**

Location:	25999384: MAR114; Air-O-Cell		26001336: MAR Courtyard; Air-O-Cell		26001334: MAR249; Air-O-Cell	
Comments (see below)	None		None		None	
Lab ID-Version‡:	9074304-1		9074306-1		9074308-1	
	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3
<b>POLLEN</b>						
Grass (Poaceae)						
Mulberry (Morus)						
Oak (Quercus)						
Other	2	27	26	350	1	13
Pine (Pinaceae)			94	1,300		
Ragweed (Ambrosieae)						
Sycamore (Platanus)						
<b>OTHER PLANT</b>						
Algae						
Diatoms						
Fern, moss, etc. spores						
Other (wood, trichomes, etc.)			16	210		
<b>OTHER PARTICLES:</b>						
<b>ANIMAL</b>						
Epithelial (skin) cells	55	2,900	13	170	42	2,200
Hair						
Insect parts						
Mites						
<b>FUNGI</b>						
Hyphal fragments	1	13	6	80		
<b>NON-BIOLOGICAL</b>						
Cellulose fibers	19	250	2	27	9	120
Glass fiber						
Starch particles			2	27	1	13
Synthetic fibers	1	13				
Background debris (1-4+)†	3+		3+		3+	
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.

‡ 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".  
 Aerotech Laboratories, Inc





001929366

CHAIN OF CUSTODY  
www.EMLabPK.com



New Jersey: 3000 Lincoln Drive East, Suite A, Madison, NJ 08053 \* (609) 571-1994  
Phoenix, AZ: 1501 West Krawinkel Ave, Phoenix, AZ 85027 \* (602) 651-4502  
San Francisco, CA: 6660 Shoreline Court, Suite 205, San Francisco, CA 94100 \* (415) 885-5553

Weather	Fog	Rain	Snow	Wind	Clear
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Moderate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heavy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Requested Services (Please check boxes below)	
Microbiology	Chemistry
<input type="checkbox"/> Spore Trap <input type="checkbox"/> Type Swab <input type="checkbox"/> Duff	<input type="checkbox"/> BioCassette™, Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plates <input type="checkbox"/> Other (Specify)
<input type="checkbox"/> Fungi - Spore Trap Analysis <input type="checkbox"/> Spore Trap Analysis - Other (Specify)	<input type="checkbox"/> Direct Microscopic Exam (Qualitative) <input type="checkbox"/> Quantitative Spore Count Direct Exam <input type="checkbox"/> H-Honda Surface Fungi (Genus ID + Sp. spp.) <input type="checkbox"/> 2-Merck Surface Fungi (Genus ID + Sp. spp.) <input type="checkbox"/> 3-Merck Surface Fungi (Genus ID + Sp. spp.) <input type="checkbox"/> Detectable Air Fungi (Genus ID + Sp. spp.) <input type="checkbox"/> Clean Room & Co. (Molecular Air & Surface Bioburden) <input type="checkbox"/> Legionella culture
<input type="checkbox"/> Total Coliform, E. coli (Presence/Absence) <input type="checkbox"/> Membrane Filtration (Specify organism) <input type="checkbox"/> MPN (Specify density organism) <input type="checkbox"/> Quant Tray - Sorbic Streak	<input type="checkbox"/> Aqueous Analysis - PCR, Jintama Filter Coam (MOSU 7407) <input type="checkbox"/> Asbestos Analysis - PCM (EPA method EMAP-94-16) <input type="checkbox"/> PCS (specify test)

CONTACT INFORMATION					
Company:	Eastern Washington University		Address: c/o: EJRS Martin Hall 002 Cheney, WA 99004		
Contact:	Chad Johnson		Special Instructions:		
Phone:	809-859-6455				
PROJECT INFORMATION		TURN AROUND TIME CODES (TAT)			
Project ID:	Martin Hall		STU - Standard (DEFAULT)		
Project Description:	MQ		ND - Next Business Day		
Project Zip Code:	99004	Sampling Date & Time: 05/15/18 13:50-15:00	SO - Same Business Day Rush		
PO Number:		Sampled by: GP/ER	WH - Weekend/Afternoon		
Notes:	Rushes received after 2 pm or on weekends, will be considered received the next business day. Please call us in advance of weekend analysis needs.				
Sample ID	Description	Sample Type (Code)	TAT (Work)	Total Volume / Area (as applicable)	Notes (Time of Day, Temp, RH, etc)
28009304	MAR14; Air-O-Cell	BT	ND	76L	05/15/18; 14:43
28001338	MAR Courtyard; Air-O-Cell	BT	ND	75L	05/15/18; 14:50
28001339	MAR14; Air-O-Cell	BT	ND	76L	05/15/18; 15:03

SAMPLE TYPE CODES				REQUISITIONED BY	DATE & TIME	RECEIVED BY	DATE & TIME
DC - BioCassette™	BT - Spore Trap Zetec, Allergence, Burkard...	Y - Tape	D - Dust	Chad Johnson	5/16/18		
ASB - Anderson	P - Portable Water	SW - Swab	80 - Soil	F. Edwards	5/17/18	P. 245	
SAS - Surface Air Sample	WP - Non-Hotplate Water	B - Bulk					
CP - Contact Plate		O - Other					

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