Air-O-Cell sampling of fiber and mold conducted on 01/04/2019 for the following areas of MAR and WAL Halls:

Sample Number	Location
27335477	MAR 247
27363030	MAR 114
27335475	MAR 002
27363125	MAR Outside Air Intake
27335500	WAL 232 for comparison



Report for:

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

Regarding:

Project: Mariwal EML ID: 2072130

Approved by:

Operations Manager Joshua Cox Dates of Analysis: Spore trap analysis: 01-10-2019

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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1501 West Knudsen Drive, Phoenix, AZ 85027

(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Eastern Washington University

C/O: Mr. Chad Johnson

Re: Mariwal

Date of Sampling: 01-04-2019 Date of Receipt: 01-08-2019 Date of Report: 01-10-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	27335500: WAL 232		27335477: MAR 247		27363030: MAR 114		27335475: MAR 002 Common		27363125: MAR Air Intake		
Comments (see below)	N	lone	N	None		None		None		None	
Lab ID-Version:	9789259-1		9789261-1		9789263-1		9789265-1		9789267-1		
Analysis Date:	01/10/2019		01/10/2019		01/10/2019		01/10/2019		01/10/2019		
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	
Ascospores					1	53			4	210	
Basidiospores			_1_	13	1	53	2	110	1	53	
Chaetomium		1									
Cladosporium					1	53			31	1,700	
Epicoccum					×				2	27	
Fusarium											
Myrothecium										Dk1	
Nigrospora											
Oidium									35	470	
Other brown									2	27	
Other colorless											
Penicillium/Aspergillus types†	1	13									
Pithomyces											
Rusts		l e								V	
Smuts, Periconia, Myxomycetes			1	13	11	150			4	53	
Stachybotrys									II I		
Stemphylium											
Torula											
Ulocladium											
Zygomycetes											
Background debris (1-4+)††	1+		1+		2+		4+		2+		
Hyphal fragments/m3	13		< 13		< 13		< 13		40		
Pollen/m3	< 13		< 13		< 13		< 13		< 13		
Skin cells (1-4+)	< 1+		1+		1+		1+		< 1+		
Sample volume (liters)	75		75		75		75	7 - 2-4 Secure	75	70007 2000	
§ TOTAL SPORES/m3		13		27		310		110		2,500	

Comments:

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

The analytical sensitivity is the spores/m^3 divided by the raw count, expressed in spores/m^3. The limit of detection is the analytical sensitivity (in spores/m^3) 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.

[†] 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

^{††}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.



Report for:

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

Regarding:

Project: Mariwal EML ID: 2072130

Approved by:

Operations Manager Joshua Cox Dates of Analysis: Spore trap analysis: 01-10-2019

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

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EMLab P&K

1501 West Knudsen Drive, Phoenix, AZ 85027 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Eastern Washington University C/O: Mr. Chad Johnson

Re: Mariwal

Date of Sampling: 01-04-2019 Date of Receipt: 01-08-2019 Date of Report: 01-10-2019

Location:		2733550 WAL 23		2733547 MAR 24		27363030: MAR 114						
Comments (see below)		None				None		None				
Lab ID-Version:		9789259-1				9789261	-1	9789263-1				
Analysis Date:		01/10/2019				01/10/20	19		01/10/2019			
Sample volume (liters)		75				75		75				
Background debris (1-4+)††		1+				1+			2+			
Duenground debris (1-1-)//	raw ct	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%	raw ct.	Count/m3	DL/m3*	%
Hyphal fragments	1	13	13	n/a								
Pollen												
§ TOTAL FUNGAL SPORES	1	13	n/a	100	2	27	n/a	100	14	310	n/a	100
Ascospores									1	53	53	17
Basidiospores					1	13	13	50	1	53	53	17
Chaetomium												
Cladosporium									1	53	53	17
Epicoceum												
Oidium												
Other brown												
Penicillium/Aspergillus types	1	13	13	100								
Smuts, Periconia, Myxomycetes					1	13	13	50	11	150	13	48
Stachybotrys				55								
Stemphylium												
Torula											-	
Ulocladium												0

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^3 divided by the raw count, expressed in Count/m^3.

††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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EMLab 1D: 2072130, Page 2 of 3

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

EMLab P&K

1501 West Knudsen Drive, Phoenix, AZ 85027 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Eastern Washington University C/O: Mr. Chad Johnson

Re: Mariwal

Date of Sampling: 01-04-2019 Date of Receipt: 01-08-2019 Date of Report: 01-10-2019

Location:		27335475 MAR 002 Con		27363125: MAR Air Intake						
Comments (see below)		None		None						
Lab ID-Version:		9789265-1		9789267-1						
Analysis Date:		01/10/2019) 	01/10/2019)				
Sample volume (liters)		75			75					
Background debris (1-4+)††		4+		2+						
()	raw ct.	Count/m3	DL/m3*	96	raw ct	Count/m3	DL/m3*	%		
Hyphal fragments					3	40	13	n/a		
Pollen										
§ TOTAL FUNGAL SPORES	2	110	n/a	100	79	2,500	n/a	100		
Ascospores					4	210	53	9		
Basidiospores	2	110	53	100	1	53	53	2		
Chaetomium										
Cladosporium					31	1,700	53	66		
Epicoccum					2	27	13	1		
Oidium					35	470	13	19		
Other brown					2	27	13	1		
Penicillium/Aspergillus types										
Smuts, Periconia, Myxomycetes					4	53	13	2		
Stachybotrys										
Stemphylium										
Torula										
Ulocladium										

Comments:

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

The analytical sensitivity/limit of detection is the Count/m^3 divided by the raw count, expressed in Count/m^3.

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EMLab ID: 2072130, Page 3 of 3

^{*}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.



Report for:

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

Regarding:

Project: Mariwal EML ID: 2072130

Approved by:

Operations Manager Joshua Cox Dates of Analysis: Spore trap analysis other particles-Supplement: 01-10-2019

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

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(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Eastern Washington University

C/O: Mr. Chad Johnson

Re: Mariwal

Date of Sampling: 01-04-2019 Date of Receipt: 01-08-2019 Date of Report: 01-10-2019

OTHER BIOLOGICAL PARTICLES REPORT: NON-VIABLE METHODOLOGY

Location:	27335500: WAL 232		27335477: MAR 247		27363030: MAR 114		27335475: MAR 002 Common		27363125: MAR Air Intake		
Comments (see below)	None		N	None		None		None		None	
Lab ID-Version‡:	9789260-1		978	9262-1	9789264-1		9789266-1		9789268-1		
r	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	raw ct.	particles/m3	
POLLEN											
Grass (Poaceae)											
Mulberry (Morus)											
Oak (Quercus)			140								
Other						¥					
Pine (Pinaceae)											
Ragweed (Ambrosieae)											
Sycamore (Platanus)											
OTHER PLANT											
Algae											
Diatoms	440										
Fern, moss, etc. spores											
Other (wood, trichomes, etc.)					2	27			5	67	
OTHER PARTICLES:											
ANIMAL						9					
Epithelial (skin) cells	71	950	129	1,700	50	2,700	105	1,400	24	320	
Hair											
Insect parts											
Mites											
FUNGI						, s					
Hyphal fragments	1	13			13				3	40	
NON-BIOLOGICAL											
Cellulose fibers	6	80	17	230	27	360	31	410	2	27	
Glass fiber	1	13	2	27			1	13			
Starch particles					1	13					
Synthetic fibers			-	_			1	13			
Background debris (1-4+)†	1+	6	1+		2+		4+		2+		
Sample volume (liters)	75		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".

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EMLab ID: 2072130, Page 2 of 2