



FUNGAL ANALYSIS - AIR

Client:	Herrick Engineering, Inc.	Sampling Method:	Air Cassette
Address:	526 Lochness Lane Cary, NC 27511	Analytical Method:	Spore Trap Analysis-102
Project ID:		CEI Lab Code:	111-0178
Project Site:	S. Granville	Date Received:	3/23/2011
		Date Analyzed:	3/23/2011
		Date Reported:	3/24/2011
		Analyzed By:	Marti Bowers

CEI Sample ID	M30998	M30999	M31000	M31001
Client Sample ID	Caf	201	304	107
Location	Cafeteria	Room 201	Room 304	Room 107
Volume (L)	100	100	100	100
Debris Rating	Low	Low	Low	Low
Pollen count	4			
Mycelial fragments				

	Total Count	Spores/m ³	Total Count	Spores/m ³	Total Count	Spores/m ³	Total Count	Spores/m ³
<i>Alternaria</i>								
<i>Arthrinium</i>								
Ascospores	2	20	1	10	1	10	3	30
<i>Aspergillus / Penicillium</i>								
Basidiospores			1	10				
<i>Bipolaris / Drechslera</i>								
<i>Cercospora</i>								
<i>Chaetomium</i>								
<i>Cladosporium</i>							2	20
<i>Curvularia</i>								
<i>Epicoccum</i>								
<i>Fusarium</i>								
<i>Helicomyces/Helicosporium</i>								
<i>Nigrospora</i>								
<i>Oidium / Peronospora</i>								
<i>Periconia / Smuts / Myxomycetes</i>					2	20		
<i>Pithomyces</i>								
Rusts								
<i>Spegazzinia</i>								
<i>Stachybotrys</i>								
<i>Stemphylium</i>								
<i>Tetraploa</i>								
<i>Torula</i>								
<i>Ulocladium</i>								
Unspecified Spores								
Total	2	20	2	20	3	30	5	50
Limit of Detection (Spores/m3)	10		10		10		10	

Comments: No discernable field blank was included with this project.

The Sample(s) in this report was/were received in acceptable condition.

The above results relate only to the items tested, and cannot be extrapolated to anything larger than their original intent. Also, these results cannot be interpreted without physical inspection and consideration for the building's characteristics and factors that may have led to its condition.

Note: Final counts (Spores/m3) are reported to 2 significant figures.

Tianbao Bai

Marti Bowers

Marti Bowers, Analyst

Final Review By: Tianbao Bai, Ph.D., CIH, Lab Director

AIHA EMPAT Direct No. 103025



LABORATORY REPORT

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CEI Sample ID	M31002	M31003	M31004	M31005
Client Sample ID	Out	7	17	Hall
Location	Outside	Room 7	Room 17	16/23 Hallway
Volume (L)	100	100	100	100
Debris Rating	Moderate	Moderate	Heavy	Heavy
Pollen count	33			
Mycelial fragments	4	1	3	4

	M31002		M31003		M31004		M31005	
	Total Count	Spores/m ³	Total Count	Spores/m ³	Total Count	Spores/m ³	Total Count	Spores/m ³
<i>Alternaria</i>	2	20					1	10
<i>Arthrinium</i>								
Ascospores	41	410	5	50	7	70	16	160
<i>Aspergillus / Penicillium</i>	2	20	1	10				
Basidiospores	4	40					6	60
<i>Bipolaris / Drechslera</i>								
<i>Cercospora</i>								
<i>Chaetomium</i>								
<i>Cladosporium</i>	5	50	8	80	19	190	6	60
<i>Curvularia</i>							1	10
<i>Epicoccum</i>								
<i>Fusarium</i>								
<i>Helicomyces/Helicosporium</i>								
<i>Nigrospora</i>								
Oidium / Peronospora								
<i>Periconia / Smuts / Myxomycetes</i>	1	10			1	10	4	40
<i>Pithomyces</i>								
Rusts								
<i>Spegazzinia</i>							1	10
<i>Stachybotrys</i>							1	10
<i>Stemphylium</i>								
<i>Tetraploa</i>								
<i>Torula</i>								
<i>Ulocladium</i>								
Unspecified Spores							1	10
Total	55	550	14	140	27	270	37	370
Limit of Detection (Spores/m3)	10		10		10		10	

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		Analyzed By:	Marti Bowers

CEI Sample ID	M31006	M31007		
Client Sample ID	WLR	27		
Location	Locker Room			
Volume (L)	100	100		
Debris Rating	Moderate	Moderate		
Pollen count				
Mycelial fragments	1	1		

	Total Count	Spores/m ³	Total Count	Spores/m ³	Total Count	Spores/m ³	Total Count	Spores/m ³
<i>Alternaria</i>								
<i>Arthrinium</i>								
Ascospores	20	200	44	440				
<i>Aspergillus / Penicillium</i>								
Basidiospores	2	20	2	20				
<i>Bipolaris / Drechslera</i>								
<i>Cercospora</i>								
<i>Chaetomium</i>								
<i>Cladosporium</i>	2	20	9	90				
<i>Curvularia</i>								
<i>Epicoccum</i>								
<i>Fusarium</i>								
<i>Helicomyces/Helicosporium</i>								
<i>Nigrospora</i>								
Oidium / Peronospora								
<i>Periconia / Smuts / Myxomycetes</i>	1	10						
<i>Pithomyces</i>								
Rusts								
<i>Spegazzinia</i>								
<i>Stachybotrys</i>								
<i>Stemphylium</i>								
<i>Tetraploa</i>								
<i>Torula</i>								
<i>Ulocladium</i>								
Unspecified Spores								
Total	25	250	55	550				
Limit of Detection (Spores/m3)		10		10				

Comments: No discernable field blank was included with this project.

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Note: Final counts (Spores/m3) are reported to 2 significant figures.

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Marti Bowers, Analyst

Final Review By: Tianbao Bai, Ph.D., CIH, Lab Director

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FUNGAL CHARACTERIZATION

Client:	Herrick Engineering, Inc.	Sampling Method:	Tape Lift
Address:	526 Lochness Lane Cary, NC 27511	Analytical Method:	Direct Microscopy-101
Project ID:		CEI Lab Code:	I11-0178
Project Site:	S. Granville	Date Received:	3/23/2011
		Date Analyzed:	3/23/2011
		Date Reported:	3/24/2011
		Analyzed By:	Marti Bowers

CEI Sample ID	Client Sample ID	Sample Location	Identification
M31008	103	Room 103	No Mold Detected

Samples were received in acceptable condition

Massive is defined as >50% of the surface covered with fungal matter and indicates active growth at some point in time. Numerous is defined as between 10% and 50% of the surface covered with fungal matter and indicates active growth at some point in time. Many is defined as being between 1% and 10% of the surface covered with fungal matter and indicates active growth at some point in time. A few designates <1% or a trace amount of only spores found on the surface. It does not indicate active growth. No mold detected indicates no fungal spores were found.

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Marti Bowers

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Final Review By:

Tianbao Bai, Ph.D., CIH, Lab Director

AIHA EMPAT Direct No. 103025



CAROLINA ENVIRONMENTAL, INC.

107 New Edition Court, Cary, NC 27511
Tel: 919-481-1413 Fax: 919-481-1442

III-0178 (11) M30798-M31008

**CHAIN OF CUSTODY RECORD
MICROBIOLOGY ANALYSIS**

Client: HERRICK ENGINEERING INC	Project Manager: BOB HERRICK
Address: 526 LOCKNESS LANE CARY NC 27511	Date: 3/23/11
Client ID#:	Phone: 919 460 7276
PO #:	Fax:
Project: S. GRANVILLE	Email: rherrick@mindspring.com

ANALYSIS CODES

TURN-AROUND TIME

101 Fungi Tape (Direct Surface)	107 Fungi & Bacteria Culture (Bulk, Dust, Wipe)	<input type="checkbox"/> 7-14 DAYS*
102 Fungi Total (Air-O-Cell)	108 Pollen	<input type="checkbox"/> 3-5 DAYS
103 Fungi Culture (Air)	109 Dust Characterization	<input type="checkbox"/> 2 DAY
104 Fungi Culture (Bulk, Dust, Wipe)	110 Respirable or Total Dust	<input checked="" type="checkbox"/> 1 DAY
105 Bacteria Culture (Air)	111 Allergens Mite (Various Species)	<input type="checkbox"/> SAME DAY
106 Bacteria Culture (Bulk, Dust, Wipe)	112 Allergens Animal (Various Species)	* All cultures are 7-14 day TAT

SAMPLE INFORMATION

FIELD ID #	SAMPLE LOCATION	ANALYSIS CODES	AREA (sq. inches)	AIR VOLUME (liters)
Caf	Cafeteria	101		100
201	Room 201			
304	Room 304			
107	Room 107			
Out	Outside			
7	Room 7			
17	Room 17			
Hall	16/23 Hallway			
WLR	Locker Room			
27				
103	Room 103			

REMARKS:

Relinquished By: <i>Bob Herrick</i>	Date / Time: 3/23/11 10:45A
Received By: <i>W. MacL...</i>	Date / Time: 3/23/11 10:45 am

LAB USE ONLY

Sample Condition Upon Receipt:	Acceptable <input type="checkbox"/>	Not Acceptable <input type="checkbox"/>
Explanation:		