January 26, 2015

Clemson University
310 Klugh Avenue
Clemson, SC 29634

Attn: Mr. W. Robert Newberry, IV
E: wnewber@clemson.edu

Re: Limited Microbiological Air Sampling
Clemson University
Martin Hall E 307 Offices
Clemson, South Carolina
Terracon Project No. 86127158

Dear Mr. Newberry:

Terracon Consultants, Inc. (Terracon) conducted limited microbiological air sampling in the Martin Hall E 307 offices located on Clemson University's main campus in Clemson, South Carolina. Terracon was requested to conduct airborne microbiological sampling for total fungal spores in the E307 Suite. The sampling was performed in general accordance with our IDC with Clemson University.

PROJECT DESCRIPTION

At the request of Clemson University Terracon conducted a limited mold investigation of Martin Hall E-307 offices. It is our understanding there are occupant complaints pertaining to possible mold within the space. This investigation was conducted at the subject site on January 5, 2015 based on information provided to Terracon relating to building conditions and/or occupant complaint(s). Terracon did not attempt to identify every potential exposure or hazard present in the subject building. Destructive sampling or testing to inspect interior wall cavity spaces or mechanical enclosures was not within the scope of work for this project.

This investigation was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. Terracon did not attempt to identify every potential exposure or hazard present in the subject building. The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during our investigation. Many factors, such as weather conditions, building occupancy, ventilation patterns, and seasonal variations in fungal/bacterial concentrations or local sources of volatile chemicals, can affect the conditions observed. The information contained in this report should not be relied upon to represent conditions that existed prior to or after this investigation. Terracon does not warrant the services of regulatory agencies, laboratories, or other third parties supplying information that may have been used in the preparation of this report.

INVESTIGATION CRITERIA AND METHODS

Air samples were collected in the offices associated with Martin Hall E 307 for total fungal spores. Additionally air samples were collected in the hallway and outdoors for comparison. Air samples were collected using a calibrated vacuum pump at a flow rate of 15 liters per minute (LPM) for 5 minutes at each location. Samples were collected on an Air-O-Cell™ spore trap cassette specifically designed for the collection of airborne mold spores at representative indoor and outdoor sample locations. Terracon also conducted surface sampling of general debris and settled dust in the area and collected temperature and relative humidity measurements over a one week time period.

After air sample collection, the samples were shipped under to EMSL Analytical, Inc. (EMSL), accredited by the AHIA® Laboratory Accreditation Programs, LLC under the Environmental Microbiology Laboratory Accreditation Program (EMLAP) (Accreditation #1922283). The samples were analyzed by direct microscopic examination and are reported in spores per cubic meter of air (spores/m^3) for airborne samples and in general categories for the surface samples.

There are no state or federal exposure limits established for fungal aerosols. There are currently no regulatory standards or medically based threshold limit or dose-response relationships for exposure to airborne or surface concentrations of fungal spores. Terracon relies upon experience, professional judgment, current scientific literature, guidelines and recommendations made by professional organizations and experts, and statistical methods in interpreting mold sampling results.

FINDINGS

On January 5, 2015 a total of seven air samples were collected; fives sample in the offices of Room 307 and two samples (in the hallway and outdoors) for comparison. No rain events occurred 24 hours prior to the sampling. It was observed that at the time of sampling, the office spaces had numerous live plants. The results are summarized below:

Table 1: Summary of Mold Spore Results

Sample #	**AS-1**	**AS-2**	**AS-3**	**AS-4**	**AS-5**	**AS-6**	**AS-7**
Location	**E 307D**	**E 307C**	**E 307B**	**E 307A**	**E 307**	**Hallway**	**Outdoors**
Spore Type	**Spores/m^3**	**Spores/m^3**	**Spores/m^3**	**Spores/m^3**	**Spores/m^3**	**Spores/m^3**	**Spores/m^3**
Ascospores	—	—	—	—	—	—	10
Aspergillus/ Penicillium	—	40	40	—	300	90	—
Basidiospores	40	90	90	300	40	90	200
Bipolaris	—	—	—	40	—	—	—
Cladosporium	10	40	200	90	40	90	90
Epicoccum	—	—	—	40	—	—	—
Myxomycetes/ Perconia/Smut	—	—	—	40	—	40	—
Total	**50**	**170**	**370**	**510**	**380**	**310**	**300**

The indoor total fungal spore results in the offices of E307 varied from 50 to 510 spores/m^3 and is some cases higher than the outdoor levels at 300 spores/m^3. Indoor mold spores levels of aspergillus/penicillium type were higher in the classroom than outdoor levels; however, due to cooler weather, fungal spores are known to be less prevalent in the outdoor environment. The laboratory analytical reports are attached to this report.

Surface samples were also collected on HVAC Drain pan and built-up dust on a floor fan. Results indicated rare to low levels of various types of fungal spores. No musty odors or indication of water intrusion was observed on the day of the assessment.

At the time of the sampling was an interior humidity level at approximately 34-36% which is within normal range of the EPA recommended range of 30-60% in the indoor environment. Terracon additionally logged temperature and humidity for the office spaces for a period of approximately one week (1/5/15 – 1/12/15), the average range for humidity during the week was approximately 33% and the average temperature was approximately 66° Fahrenheit. Both readings were within EPA recommended guidelines for a comfortable indoor space.

Conclusions and Recommendations

The indoor total fungal spore results in the offices of E307 varied from 50 to 510 spores/m^3 and in some cases were higher than the outdoor level of 300 spores/m^3. Due to cooler weather, fungal spores are known to be less prevalent in the outdoor environment and, therefore, because the total indoor spore levels did not exceed total outdoor levels by a magnitude (i.e 10 times greater) the interior spore levels are generally considered acceptable. It was noted that at the time of sampling, the office spaces appeared to have numerous live plants which can lead to additional fungal spores being present.

Surface samples were also collected on HVAC Drain pan and built-up dust on a floor fan. Results indicated rare to low levels of various types of fungal spores.

The humidity level in the classroom was within the recommended guidelines. However it should be noted that the humidity levels were are at the lower threshold of the range and if the humidity becomes too low it may produce irritability in the sinuses and throat.

General housekeeping and routine maintenance of plants should be performed. Settled dusts should not be allowed to build up on surfaces.

Terracon appreciates the opportunity to provide this service to Clemson University. If you have any questions regarding this limited asbestos sampling report, please contact the undersigned at 864-292-2901.

Sincerely,
Terracon Consultants, Inc.



Stephen N. Ellis
Project Professional



Jeffrey Gurrie
Senior Project Industrial Hygienist

Attachments: Laboratory Results

Laboratory Results

EMSL Analytical, Inc.
376 Crompton Street Charlotte, NC 28273
Phone/Fax: (704) 525-2205 / (704) 525-2382
http://www.EMSL.com / charlottelab@emsl.com

Order ID: 411500044
Customer ID: GTER78
Customer PO:
Project ID:

Attn: Jeff Gurrie
Terracon Consultants, Inc.
3534 Rutherford Road
Taylors, SC 29687

Phone: (864) 292-2901
Fax: (864) 292-6361
Collected: 01/05/2015
Received: 01/06/2015
Analyzed: 01/06/2015

Proj: CU-Martin E307 Offices

Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Tape Samples (EMSL Method: M041)

Lab Sample Number: / Client Sample ID: / Sample Location:	411500044-0009 TS-1 Drain Pan on HVAC Unit	411500044-0010 TS-2 Dust on Floor Fan	411500044-0011 TS-3 Blank		
Spore Types	Category	Category	Category		
Agrocybe/Coprinus	-	-	-		
Alternaria	Rare	Low	-		
Ascospores	Low	Low	-		
Aspergillus/Penicillium	-	Low	-		
Basidiospores	Rare	Low	-		
Bipolaris++	Rare	Rare	-		
Chaetomium	-	-	-		
Cladosporium	Low	Low	-		
Curvularia	-	Rare	-		
Epicoccum	-	-	-		
Fusarium	-	-	-		
Ganoderma	-	-	-		
Myxomycetes++	Rare	Rare	-		
Paecilomyces	-	-	-		
Rust	-	Rare	-		
Scopulariopsis	-	-	-		
Stachybotrys	-	Rare	-		
Torula	-	-	-		
Ulocladium	-	-	-		
Unidentifiable Spores	Rare	-	-		
Zygomycetes	-	-	-		
Cercospora	-	Rare	-		
Nigrospora	-	Rare	-		
Pestalotia	-	Rare	-		
Polythrincium	-	Rare	-		
Fibrous Particulate	Rare	Low	-		
Hyphal Fragment	Rare	Low	-		
Insect Fragment	-	-	-		
Pollen	Rare	Rare	-		

Sample Comment: 411500044-0011 None Detected

Category: Count/per area analyzed
Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: >1000

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum Myxomycetes++ = Myxomycetes/Periconia/Smut
* = Sample contains fruiting structures and/or hyphae associated with the spores.

No discernable field blank was submitted with this group of samples.

Lee Plumley, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation of the data contained in this report is the responsibility of the client. "-" denotes not detected. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Charlotte, NC AIHA-LAP, LLC--EMLAP Accredited #192283

Initial report from: 01/07/2015 08:27:05

For Information on the fungi listed in this report please visit the Resources section at www.emsl.com

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http://www.EMSL.com / charlottelab@emsl.com

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Project ID:

Attn: Jeff Gurrie
Terracon Consultants, Inc.
3534 Rutherford Road
Taylors, SC 29687

Phone: (864) 292-2901
Fax: (864) 292-6361
Collected: 01/05/2015
Received: 01/06/2015
Analyzed: 01/06/2015

Proj: CU-Martin E307 Offices

Test Report: Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	411500044-0001			411500044-0002			411500044-0003		
Client Sample ID:	AS-1			AS-2			AS-3		
Volume (L):	75			75			75		
Sample Location:	E307D			E307C			E307B		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	1	40	23.5	1	40	10.8
Basidiospores	1	40	80	2	90	52.9	2	90	24.3
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1*	10*	20	1	40	23.5	4	200	54.1
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	1	40	10.8
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	**2**	**50**	**100**	**4**	**170**	**100**	**8**	**370**	**100**
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	2	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	2	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smut

Lee Plumley, Laboratory Manager
or Other Approved Signatory

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "*" Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Charlotte, NC AIHA-LAP, LLC - EMLAP 192283

Initial report from: 01/07/2015 08:27:05

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Phone: (864) 292-2901
Fax: (864) 292-6361
Collected: 01/05/2015
Received: 01/06/2015
Analyzed: 01/06/2015

Proj: CU-Martin E307 Offices

Test Report: Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	411500044-0004			411500044-0005			411500044-0006		
Client Sample ID:	AS-4			AS-5			AS-6		
Volume (L):	75			75			75		
Sample Location:	E307A			E307			Hallway		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	7	300	78.9	2	90	29
Basidiospores	6	300	58.8	1	40	10.5	2	90	29
Bipolaris++	1	40	7.8	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	2	90	17.6	1	40	10.5	2	90	29
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	1	40	7.8	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1	40	7.8	-	-	-	1	40	12.9
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	**11**	**510**	**100**	**9**	**380**	**100**	**7**	**310**	**100**
Hyphal Fragment	-	-	-	-	-	-	1*	10*	3.2
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	2	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	2	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smut

Lee Plumley, Laboratory Manager
or Other Approved Signatory

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Phone: (864) 292-2901
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Collected: 01/05/2015
Received: 01/06/2015
Analyzed: 01/06/2015

Proj: CU-Martin E307 Offices

Test Report: Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	411500044-0007			411500044-0008		
Client Sample ID:	AS-7			AS-8		
Volume (L):	75			0		
Sample Location:	Outdoors			Blank		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	-	-	-	-	-	-
Ascospores	1*	10*	3.3	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-
Basidiospores	5	200	66.7	-	-	-
Bipolaris++	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-
Cladosporium	7*	90*	30	-	-	-
Curvularia	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-
Rust	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-
Torula	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-
Total Fungi	**13**	**300**	**100**	**-**	**No Trace**	**-**
Hyphal Fragment	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-
Pollen	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	0	-
Analyt. Sensitivity 300x	-	13*	-	-	0*	-
Skin Fragments (1-4)	-	2	-	-	-	-
Fibrous Particulate (1-4)	-	1	-	-	-	-
Background (1-5)	-	2	-	-	-	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smut

Lee Plumley, Laboratory Manager
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OrderID: 411500044

EMSL ANALYTICAL, INC.
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Microbiology Chain of Custody

EMSL Order Number (*Lab Use Only*): 411500044

376 Crompton Street
Charlotte, NC 28273
PHONE (704) 525-2205
FAX (704) 525 2382

Company: Terracon		**EMSL-Bill to:** ☐ Different ☑ Same If Bill to is Different note instructions in Comments**	
Street: 3534 Rutherford Road		*Third Party Billing requires written authorization from third party*	
City: Taylors	**State/Province:** SC	**Zip/Postal Code:** 29687	**Country:** United States
Report To (Name): Jeffrey Gurrie		**Telephone #:** 864-360-7572	
Email Address: jagurrie@terracon.com		**Fax #:**	**Purchase Order:**
Project Name/Number: CU-Martin E307 Offices		**Please Provide Results:** ☐ FAX ☑ E-mail ☐ Mail	
U.S. State Samples Taken: SC		**Connecticut Samples:** ☐ Commercial ☐ Residential	

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour | ☐ 6 Hour | ■ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements*

Non Culturable Air Samples (Spore Traps) – Test Codes

• **M001** Air-O-Cell	• **M173** Allegro M2	• **M004** Allergenco	• **M032** Allergenco-D	• **M172** Versa Trap
• **M049** BioSIS	• **M003** Burkard	• **M043** Cyclex	• **M002** Cyclex-d	
• **M030** Micro 5	• **M174** MoldSnap	• **M176** Relle Smart	• **M130** Via-Cell	

Other Microbiology Test Codes

• **M041** Fungal Direct Examination	• **M014** Endotoxin Analysis	• **M029** *Enterococci*
• **M005** Viable Fungi ID and Count	• **M015** Heterotrophic Plate Count	• **M019** Fecal Coliform
• **M006** Viable Fungi ID and Count (Speciation)	• **M180** Real Time Q-PCR-ERMI 36	• **M133** MRSA Analysis
• **M007** Culturable Fungi	• Panel	• **M028** *Cryptococcus neoformans* Detection
• **M008** Culturable Fungi (Speciation)	• **M018** Total Coliform (Membrane Filtration)	• **M120** *Histoplasma capsulatum* Detection
• **M009** Gram Stain Culturable Bacteria	• **M020** Fecal *Streptococcus* (Membrane Filtration)	• **M033-39** Allergen Testing
• **M010** Bacterial Count and ID – 3 Most Prominent	• **M210-215** *Legionella* Detection	• **M044** Group Allergen (Cat, Dog, Cockroach, Dustmites)
• **M011** Bacterial Count and ID – 5 Most Prominent	• **M026** Recreational Water Screen	• **Other** See Analytical Price Guide
• **M013** Sewage Contamination in Buildings	• **M027** Mycotoxin Analysis	

Preservation Method (Water):

Name of Sampler: Stephen Ellis **Signature of Sampler:** Stephen Ellis

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
Example: A1	Kitchen	Air	M001	75L	1/1/12 4:00 PM
AS-1	E307D	Air	M001	75L	1-5-15
AS-2	E307C	Air	M001	75L	1-5-15
AS-3	E307B	Air	M001	75L	1-5-15
AS-4	E307A	Air	M001	75L	1-5-15
AS-5	E307	Air	M001	75L	1-5-15
AS-6	Hallway	Air	M001	75L	1-5-15
AS-7	Outdoors	Air	M001	75L	1-5-15
AS-8	Blank	Air	M001	0L	1-5-15
TS-1	Drain Pan on HVAC Unit	Tape	M041	2 sqin	1-5-15

Client Sample # (s): **Total # of Samples:** 11

Relinquished (Client): Stephen Ellis **Date:** 1-5-15 **Time:** 17:00

Received (Client): [signature] **Date:** 1-6-15 **Time:** 10:45 am FX

Comments: 7724 66666 9002

OrderID: 411500044

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Microbiology Chain of Custody

EMSL Order Number (*Lab Use Only*): 411500044

376 Crompton Street

Charlotte, NC 28273
PHONE (704) 525-2205
FAX (704) 525 2382

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
TS-2	Dust on Floor Fan	Tape	M041	2 sqin	1-5-15
TS-3	Blank	Tape	M041	O	1-5-15

****Comments/Special Instructions:**