November 9, 2015

Clemson University
310 Klugh Avenue
Clemson, South Carolina 29634

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

Re: Limited Mold and Allergen Investigation Report
Clemson Foundation
155 Old Greenville Hwy, Suite 105
Clemson, South Carolina
Terracon Project No. 86127158 – Task 48

Dear Mr. Newberry:

Terracon Consultants, Inc. (Terracon) conducted a limited mold and allergen investigation in the offices of the Clemson Foundation located at 155 Old Greenville Highway, Suite 105 in Clemson, South Carolina. One of the office occupants is reporting allergy like symptoms that they believe are related to air quality at the office. The sampling was performed in general accordance with our IDC with Clemson University.

PROJECT DESCRIPTION

Scope of Services

At the request of Clemson University Terracon conducted a limited mold and allergen investigation in the offices of the Clemson Foundation. No other area of the building was assessed. Air samples were collected throughout the office and outside for total spore count analysis and a carpet vacuum sample was collected from the office of the complainant for allergen analyses. Terracon representative Mr. Benjamin Hestir performed this investigation on October 22, 2015.

Standard of Care

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

Physical Inspection

The physical assessment was conducted to determine whether building materials were impacted by moisture intrusion or condensate formation, and to identify the presence of visible fungal growth. The inspection focused primarily on collecting observational data (i.e., information obtained by physical inspection of the building and interviews with the building management, owners, and occupants). The physical inspection can help to formulate plans for more in-depth investigation. Destructive sampling or testing to inspect interior wall cavity spaces or mechanical enclosures was not within the scope of work for this project.

The physical inspection included:

- an examination of the physical structure and potential indoor and outdoor sources of moisture intrusion;
- the identification of any discoloration or odor that could indicate moisture intrusion, water damage, and/or fungal growth;

Mold and Allergen Sampling

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 mold 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.

High variability in airborne fungal spore concentrations can exist in different geographic locations, during different seasons, and weather patterns, and over the course of a given day. As a general rule, indoor air fungal spore concentrations in an HVAC-supplied building are typically less than, but qualitatively similar to, fungal spore concentrations found in the outside environment. To help interpret the sampling results, we compared indoor air and outdoor air measurements.

Total non-viable (non-culturable) fungal spore trap samples were collected using Air-O-Cell™ spore trap cassette specifically designed for the collection of airborne mold spores. Air samples were collected using a calibrated Zefon Bio-Pump™ at a flow rate of 15 liters per minute (LPM) for 5 minutes at each location.

An allergen dust sample was collected from carpet in the office of the complainant using a high volume air sampling pump in conjunction with a Zefon 25-millimeter carpet/dust sampling cassette preloaded with a .45 micrometer mixed cellulose ester (MCE) filter.

After air and carpet dust sample collection, the samples were shipped by overnight courier to EMSL in Cinnaminson, New Jersey. EMSL is accredited by the AIHA® Laboratory Accreditation Programs, LLC under the Environmental Microbiology Laboratory Accreditation Program (EMLAP), Accreditation #100194. The total spore count samples were analyzed by direct microscopic examination and are reported in spores per cubic meter of air (spores/m^3). Allergen samples were analyzed by direct microscopic examination for allergens from dust mites, mouse, rat, cat, dog, and cockroach. Allergen results are reported in micrograms per filter (µg/filter).

Temperature and Relative Humidity

Indoor air temperature and RH are physical conditions important to the perception of comfort. The American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) has published recommendations regarding thermal comfort. ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy, identifies six primary factors that affect comfort: metabolic rate (affected by the activity being performed); clothing insulation; air temperature; radiant temperature; air speed; and humidity.

Although the relationships are complex, a temperature range between 73 and 79 degrees Fahrenheit (°F) with relative humidity between roughly 20 and 60 percent (%) are recommended for persons performing “office” work and wearing light summer clothing. Higher temperatures require lower humidity for comfort. For persons in winter clothing, temperatures can range between 68 and 75 °F, with relative humidity between 30 and 60%.

EPA recommends maintaining low indoor humidity, below 60% relative humidity, ideally 30-50%, if possible.

Readings of temperature and relative humidity were made with an Extech Model 445580 instrument which was calibrated by the manufacturer.

FINDINGS

Physical Assessment

The offices of the Clemson Foundation are located in the Tiger Park building located on Highway 93 in Clemson, South Carolina and is currently is occupied by approximately twenty (25) full time employees and consists of approximately 4,300 square feet on the second floor of the building. The lower level is a parking garage and the 3rd and 4th floors are residential condominiums. At the time of assessment no musty odors were observed. Reportedly, there had been a water intrusion affecting the carpeting in the file/work space and after the water removal the carpet was removed from that room. The majority of the office space contains cubicles with offices along the northern wall.

No evidence of active water intrusion or visible mold growth was observed.

Mold Air Sampling

On the afternoon of October 22, 2015 Terracon collected six (6) non-viable mold spore trap samples; four in select locations within the office space plus two outdoors for comparison.

At the time of testing the indoor temperatures ranged from 74º F to 76º F and indoor relative humidity ranged from 41% to 43%. Outdoor temperature was 71º F and outdoor relative humidity was 53% with on a clear day with no rain.

The results of the total spore count samples are summarized in Table 1 below:

Table 1: Summary of Total Spore Count Results, Temperature & Relative Humidity
October 22, 2015

Sample #	CF-1	CF-3	CF-4	CF-5	CF-6	CF-7
Location	**Office of Michael Sulhan**	**Fileroom /Work Area**	**Office of Hack Trammell**	**Southwest corner of office**	**Outside in Parking Lot**	**Outside at Ramp to CU Lot 2**
Temperature (°F)	**73.9**	**74.8**	**74.6**	**76.4**	**70.8**	**71.0**
Relative Humidity (%)	**42.4**	**43.0**	**41.1**	**42.1**	**52.7**	**52.9**
Spore Type	**Spores/m³**	**Spores/m³**	**Spores/m³**	**Spores/m³**	**Spores/m³**	**Spores/m³**
Alternaria	---	---	---	---	---	---
Ascospores	---	---	80	80	2,500	720
Aspergillus/ Penicillium	---	---	---	---	---	100
Basidiospores	---	---	---	---	40	40
Cladosporium	---	---	---	---	510	200
Curvularia	40	---	---	---	40	---
Bipolaris/ Drechslera	---	---	---	---	---	---
Chaetomium	---	---	---	---	40	---

Sample #	CF-1	CF-3	CF-4	CF-5	CF-6	CF-7
Location	**Office of Michael Sulhan**	**Fileroom /Work Area**	**Office of Hack Trammell**	**Southwest corner of office**	**Outside in Parking Lot**	**Outside at Ramp to CU Lot 2**
Temperature (°F)	**73.9**	**74.8**	**74.6**	**76.4**	**70.8**	**71.0**
Relative Humidity (%)	**42.4**	**43.0**	**41.1**	**42.1**	**52.7**	**52.9**
Spore Type	**Spores/m³**	**Spores/m³**	**Spores/m³**	**Spores/m³**	**Spores/m³**	**Spores/m³**
Myxomycetes/ Perconia/Smuts	---	---	80	---	400	300
Rust	---	---	---	---	40	---
Nigrospora	---	---	---	---	---	---
Epiccocum	---	---	---	---	---	40
Polythrincium	---	---	---	---	---	---
Pithomyces	---	---	---	---	---	40
Total	**40**	**ND**	**160**	**80**	**3,570**	**1,440**

Notes: m^3 = cubic meter of air

Indoor total spore counts were significantly lower than counts from the two outdoor samples. All spores types identified inside were also seen in the outdoor samples. *Ascospores* were dominant in the two outdoor samples.

The laboratory analytical report is attached.

Carpet Dust Sampling

On the afternoon of October 22, 2015 Terracon collected one (1) carpet dust sample from the carpeting in the office of the person in the office experiencing symptoms believed to be allergy related. The sample was analyzed for allergens from dust mites, mouse, rat, cat, dog, and cockroach. No allergens were identified in the sample. The laboratory analytical report is attached.

Conclusions and Recommendations

The following conclusions and recommendations are provided based on our assessment:

- Total spore counts inside were well below those measured outside.
- Temperature and relative humidity readings were within normal comfort levels for an office environment.
- No allergens were detected from the carpet dust sample.
- A previous leak reported in the file storage room was reported by the office manager. No evidence of impact from that leak was observed.
- No readily apparent source of respiratory irritation was evident from the visual inspection or the data collected.

Limited testing for airborne mold, allergens in carpeting, temperature, and relative humidity at the time of testing did not produce levels above industry guidelines, therefore no recommendations are provided.

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.

Benjamin Hestir, P.E.
Project Industrial Hygienist

Jeffrey A. Gurrie
Sr. Industrial Hygienist

Attachments: Photographs
Laboratory Results

Photographs



Photo #1 Location of Sample CF-1 on desk of Michael Sulhan



Photo #2 View of temperature/humidity readings at time of Sample CF-1



Photo #3 Location of Sample CF-2 (carpet dust) in office of Michael Sulhan



Photo #4 Location of Sample CF-3 in fileroom / work area



Photo #5 View of temperature/humidity readings at time of Sample CF-3



Photo #6 View of file room



Photo #7 View of threshold into file room where carpet was removed after leak incident



Photo #8 Location of Sample CF-4 in office of Hack Trammell



Photo #9 View of temperature/humidity readings at time of Sample CF-4



Photo #10 Location of Sample CF-5 in southwest corner of office space



Photo #11 View of temperature/humidity readings at time of Sample CF-5



Photo #12 Location of Sample CF-6 in parking lot north of office entrance



Photo #13 View of temperature/humidity readings at time of Sample CF-6



Photo #14 Location of Sample CF-7 across Highway 93 to the south of the Clemson Foundation office



Photo #15 View of temperature/humidity readings at time of Sample CF-7

Photo #16

Laboratory Results

EMSL Analytical, Inc.

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

Order ID:	371519536
Customer ID:	GTER78
Customer PO:	86127158-48
Project ID:	

Attn: Ben Hestir
Terracon Consultants, Inc.
3534 Rutherford Road
Taylors, SC 29687

Phone:	(864) 292-2901
Fax:	(864) 292-6361
Collected:	10/22/2015
Received:	10/26/2015
Analyzed:	10/31/2015

Proj: Clemson Foundation IAQ / PO# 86127158 / Task# 48

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

Lab Sample Number:	371519536-0001			371519536-0003			371519536-0004		
Client Sample ID:	CF-1			CF-3			CF-4		
Volume (L):	75			75			75		
Sample Location:	MS Office			Work Room			HT Office		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	2	80	50
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	-	-	-	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	1	40	100	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	2	80	50
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	**1**	**40**	**100**	**-**	**None Detected**	**-**	**4**	**160**	**100**
Hyphal Fragment	1	40	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	42	-	-	42	-	-	42	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

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

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



Farbod Nekouei, M.S., Laboratory Director
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. Piscataway, NJ AIHA-LAP, LLC--EMLAP Accredited #167035

Initial report from: 10/31/2015 16:31:04

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

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Collected: 10/22/2015
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Proj: Clemson Foundation IAQ / PO# 86127158 / Task# 48

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

Lab Sample Number:	371519536-0005			371519536-0006			371519536-0007		
Client Sample ID:	CF-5			CF-6			CF-7		
Volume (L):	75			75			75		
Sample Location:	Near Back Door			Outside Parking			Outside Lot 2 Ramp		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	2	80	100	59	2500	70	17	720	50
Aspergillus/Penicillium	-	-	-	-	-	-	3	100	6.9
Basidiospores	-	-	-	1	40	1.1	1	40	2.8
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	1	40	1.1	-	-	-
Cladosporium	-	-	-	12	510	14.3	4	200	13.9
Curvularia	-	-	-	1	40	1.1	-	-	-
Epicoccum	-	-	-	-	-	-	1	40	2.8
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	9	400	11.2	7	300	20.8
Pithomyces	-	-	-	-	-	-	1	40	2.8
Rust	-	-	-	1	40	1.1	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	**2**	**80**	**100**	**84**	**3570**	**100**	**34**	**1440**	**100**
Hyphal Fragment	-	-	-	4	200	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	1	40	-	-	-	-
Analyt. Sensitivity 600x	-	42	-	-	42	-	-	42	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	2	-	-	1	-

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

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

Farbod Nekouei, M.S., Laboratory Director
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. Piscataway, NJ AIHA-LAP, LLC--EMLAP Accredited #167035

Initial report from: 10/31/2015 16:31:04

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



EMSL Analytical, Inc.

200 Route 130 North
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Tel: (856) 858-4800
Fax: (856) 786-0262

Indoor Allergen Analysis by ELISA

Prepared Exclusively For

Ben Hestir
Terracon Consultants, Inc.
3534 Rutherford Roa
Taylors, SC 29687

Date Received:	**10/26/2015**
Date Reported:	**11/2/2015**
Project:	**Clemson Foundation IAQ/PO# 86127158**
EMSL Order:	**371519536**
Client ID	**GTER78**

If you have any questions, please do not hesitate to contact us at (856)858-4800.

All samples were collected by and all sampling data was provided by the client. The results are valid only for those samples analyzed, and only for those samples collected in accordance with the appropriate methodology as determined by the client.
The results herein do not denote or represent a medical or clinical diagnosis or conclusion. In the event that sample(s) were submitted in opened, used non-sterile or otherwise adulterated condition, EMSL shall not be responsible or liable.

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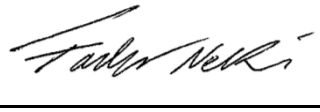
Ben Hestir
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Taylors, SC 29687

EMSL Reference: **371519536**
Date Collected: 10/22/2015
Date Received: 10/26/2015
Date Reported: 11/2/2015

Indoor Allergen Report

Lab Sample ID	**371519536-2**
Client Sample ID	**CF-2**
Sample Location	**MS Office**

Test Parameter	*Antigens*	*Detection Limits*	*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.01	**ND**	**µg/filter**	ND
Dust Mites Allergen	Der p1	0.01	**ND**	**µg/filter**	ND
Mouse Allergen	Mus m1	0.001	**ND**	**µg/filter**	ND
Rat Allergen	Rat n1	0.004	**ND**	**µg/filter**	ND
Cat Allergen	Fel d1	0.003	**ND**	**µg/filter**	ND
Dog Allergen	Can f1	0.01	**ND**	**µg/filter**	ND
Cockroach Allergen	Bla g1	0.02	**ND**	**U/filter**	ND



Farbod Nekouei M.S., Lab Manager
Or Other Approved Signatory

Low: Not Sufficient to cause symptoms. Moderate: Risk for sensitization and bronchial hyperactivity. High: Risk for acute allergic asthma attack. µg/g: Micrograms per gram, U/g: Units per gram, ng/g: Nanogram per gram. N/A: Not Applicable. ND (None Detected): Indicates that the amount of allergen in the sample is below the detection limits.
†: Sufficient evidence is not available for risk levels
This report and guidelines furnish information only. Whether an individual suffers allergic symptoms or not depends on his/her medical history and previous exposure.

This report has been prepared by EMSL Analytical, Inc. at the request of and for the exclusive use of the client named in this report.
Completely read the important terms, conditions, and limitations that apply to this report.
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EMSL Analytical, Inc.

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www.EMSL.com

EMSL Order: 371519536

Guidelines to Interpretation

Allergens

	µg/g											
	<DL	<1	1	2	3	4	5	6	7	8	9	>10
Fel d1	ND	Low	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High	High	High
Can f1	ND	Low	Low	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High
Der p1	ND	Low	Low	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High
Der f1	ND	Low	Low	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High
Mus m1	ND	Low	Mod	Mod	Mod	High	High	High	High	High	High	High
µg/m3												
Rat n1	ND	<0.7 µg /m3 = Not associated with increased risk of asthma										
Hev b5	ND	<0.6 ng/m3 = Not associated with increased risk of asthma										
Hev b6.02	ND	<0.6 ng/m3 = Not associated with increased risk of asthma										
U/g												
Bla g1 †	ND	Low	Mod	Mod	Mod	High	High	High	High	High	High	High
Bla g2 †	ND	Low	Mod	Mod	Mod	High	High	High	High	High	High	High

† *Suggested levels. Not officially established.*

Note: This report and guidelines furnish information only.

Whether an individual suffers allergic symptoms or not depends on his/her medical history and previous exposure.

References

Journal of Allergy and Clinical Immunology 1989; 83:416-427

Journal of Allergy and Clinical Immunology 1995; 96:449-456

The American review of respiratory disease 1990; 141:361-367

The American review of respiratory disease 1993; 147:573-578

Environmental Health Perspectives 2002; 110:419-425

Clinical and Experimental Allergy 1998; 28(5):537-44

Terminology

Allergen	A substance which reacts with the body's immune system to produce an allergic reaction.
Antigen	A substance, foreign to the body, which stimulates the production of antibodies by the immune system.
Bla g1	*Blattella germanica* (Cockroach) allergen 1
Bla g2	*Blattella germanica* (Cockroach) allergen 2
Can f1	*Canis familiaris* (Dog) allergen 1
Der f1	*Dermatophagoides farinae* (Dust Mites) allergen 1
Der p1	*Dermatophagoides pteronyssinus* (Dust Mites) allergen 1
Detection Limits	DL is the smallest amount of a substance, in this case antigens, which can be measured.
Fel d1	*Felis domesticus* (Cat) allergen 1
Hev b5	*Hevea brasiliensis* (Latex) allergen 5
Hev b6.02	*Hevea brasiliensis* (Latex) allergen 6.02
Mus m1	*Mus musculus* (Mouse) allergen 1
ND	None detected, if any allergens are present they are below the detection limits.
Rat n1	*Rattus norvegicus* (Rat) allergen 1

This report has been prepared by EMSL Analytical, Inc. at the request of and for the exclusive use of the client named in this report.

Completely read the important terms, conditions, and limitations that apply to this report.

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EMSL Analytical, Inc.

200 Route 130 North | Cinnaminson, NJ 08077
Phone: 856-858-4800 | Fax: 856-786-0262
www.EMSL.com

EMSL Order: 371519536

Important Terms, Conditions, and Limitations

A. Sample Retention

Samples analyzed by EMSL will be retained for 60 days after analysis date. Storage beyond this period is available for a fee with written request prior to the initial 30 day period. Samples containing hazardous/toxic substances which require special handling will be returned to the client immediately. EMSL reserves the right to charge a sample disposal fee or return samples to the client.

B. Change Orders and Cancellation

All changes in the scope of work or turnaround time requested by the client after sample acceptance must be made in writing and confirmed in writing by EMSL. If requested changes result in a change in cost the client must accept payment responsibility. In the event work is cancelled by a client, EMSL will complete work in progress and invoice for work completed to the point of cancellation notice. EMSL is not responsible for holding times that are exceeded due to such changes.

C. Warranty

EMSL warrants to its clients that all services provided hereunder shall be performed in accordance with established and recognized analytical testing procedures and with reasonable care in accordance with applicable federal, state and local laws. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied. EMSL disclaims any other warranties, express or implied, including a warranty of fitness for particular purpose and warranty of merchantability.

D. Limits of Liability

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. EMSL will not be held responsible for the improper selection of sampling devices even if we supply the device to the user. The user of the sampling device has the sole responsibility to select the proper sampler and sampling conditions to insure that a valid sample is taken for analysis. Any resampling performed will be at the sole discretion of EMSL, the cost of which shall be limited to the reasonable value of the original sample delivery group (SDG) samples. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder.

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E. Indemnification

Client shall indemnify EMSL and its officers, directors and employees and hold each of them harmless for any liability, expense or cost, including reasonable attorney's fees, incurred by reason of any third party claim in connection with EMSL's services, the test result data or its use by client.

THIS IS THE LAST PAGE OF THE REPORT

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EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only): 371519536

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Ben Hestir		Bill To Company: SAME	
Company Name: Terracon		~~Attention To:~~	
Street: 3534 Rutherford Rd.		Street:	
City: Taylors	State/Province: SC	Zip/Postal Code: 29687	City: State/Province: Zip/Postal Code:
Phone: 864-293-7348 ~~Fax:~~ ben.hestir@terracon.com		Phone: Fax:	U.S. State where Samples Collected: SC
Project Name: Clemson Foundation IAQ		Task 48	Sampled By (Signature): Ben Hestir
Number of Samples in Shipment: 7	Date of Shipment: 10/23/15	Purchase Order: 86127158	Email Results To: ben.hestir@terracon.com
Please Provide results: ☐ Fax ☑ Email ☐ Mail			

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
☐	☑	☐	☐	☐	☐	☐

Media Type:
Manufacturer/Part #:
Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
CF-1	Air-o-cell		75L	10/22/15	MS office	
CF-2	Carpet dust →	M044/M038/M054/ M033 DEC BEO (AT) 10/26/15	NA		MS office	
CF-3	Air-o-cell		75L		Work room	
CF-4	" "		"		HT office	
CF-5	" "		"		Near back door	
CF-6	" "		"		Outside Parking	
CF-7	" "		"		Outside Lot 2 ramp	

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Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
Ben Hestir	10/23/15	BT FX	10/26/15 9AM

Comments:

(1)

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Controlled Document – Industrial Hygiene COC – R3 – 7/12/2011

OrderID: 371519536