May 12, 2017

Clemson University
310 Klugh Avenue
Clemson, South Carolina 29634

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

Re: Limited Mold and Allergen Investigation Report
Administrative Services Building
108 Perimeter Road
Clemson, South Carolina 29631
Terracon Project No. 86127158 – Task 87

Dear Mr. Newberry:

Terracon Consultants, Inc. (Terracon) conducted a limited mold and allergen investigation in multiple offices in the Administrative Services Building, 108 Perimeter Road at Clemson University in Clemson, South Carolina. Multiple concerns regarding indoor air quality have been expressed in the recent past. This service was conducted in general accordance with our Master Service Agreement with Clemson University.

PROJECT DESCRIPTION

Scope of Services

At the request of Clemson University, Terracon representative Mr. Benjamin Hestir conducted a limited mold and allergen investigation in multiple offices in the Administrative Services Building, on April 13th and 14th, 2017. This single story building constructed in 1978 contains approximately 20,000 square feet of office space and another 10,000 square feet of warehouse for receiving and surplus. The office space contains multiple offices and conference rooms primarily occupied by University payroll, procurement and human resources operations. The warehouse sections were not part of our sampling effort.

The investigation included measurements of temperature and relative humidity, the collection of spore trap samples and the collection of carpet dust samples for allergens analysis.

Standard of Care

This limited mold and allergen 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 sampling. Many factors, such as weather conditions, building occupancy, ventilation patterns and seasonal variations in fungal concentrations, 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 sampling. 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.

SAMPLING CRITERIA AND METHODS

Mold and Allergen Sampling

Total mold spore trap samples were collected using Allergenco-D™ spore trap cassettes 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.

Carpet dust samples for allergens analysis were collected from carpet in multiple office locations 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 collection, the spore trap and allergen samples were delivered 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.

Spore trap samples were analyzed by direct microscopic examination and results are reported in spores per cubic meter of air (spores/m^3).

Carpet dust samples were analyzed for allergens (dust mites, mouse, rat, cat, dog, and cockroach). Allergen results are reported in micrograms per gram (µg/g).

To help interpret the mold spore trap sampling results, we compared indoor air and outdoor air measurements. 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 a heating, ventilation and

air-conditioning (HVAC)-supplied building are typically less than, but qualitatively similar to, fungal spore concentrations found in the outside environment.

To help interpret the allergen results, EMSL provides risk levels associated with the amount of each allergen found in each sample. Those risk levels are shown in the allergen results tables and also in the attached analytical reports.

No state or federal exposure limits have been established for fungal aerosols. Regulatory standards, medically based threshold limit or dose-response relationships have not been established 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.

Temperature and Relative Humidity

Indoor air temperature and relative humidity 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 55-2013, 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 in a conditioned setting 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 20% and 60%, with preferred conditions falling between 30% and 50% for both winter and summer temperatures.

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

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

FINDINGS

General Observations

- Spore trap air samples were collected in eighteen (18) locations inside
- Two additional spore trap air samples were collected outside for comparison
- Allergen dust samples were collected from carpet in eighteen (18) locations inside

- No evidence of mold growth was observed or reported.
- Photographs from the assessment are attached.

Analytical Results

The results of the total spore count samples analyses are presented in Table 1. The results of the allergen dust samples are presented in Table 2. The laboratory analytical reports are attached.

Total Spore Count Results

The highest indoor total spore count from the indoor samples was approximately 44% of the lowest outdoor count. The dominant mold genera indoors were *Basidiospores and Ascospores.* The dominant mold spore types outdoors were *Cladosporium, Ascospores* and *Penicillium/Aspergillus*. The weather on the day we sampled was clear, warm (75ºF) and windy.

Allergen Results

Allergen results above the low or non-detect levels were as follows:

- Dust Mites – three “moderate” results (3 of 18)
- Mouse – four “moderate” results (4 of 18)
- Cat – six “moderate” results (6 of 18)
- Cat – one “high” result (1 of 18)
- Dog – two “moderate” results (2 of 18)

All other types of allergens (rat and cockroach) were found at levels labeled as “low” risk or not detected.

Temperature and Relative Humidity

The indoor temperature was 73ºF and the relative humidity was 42%. The outdoor temperature was 75ºF and the relative humidity was 52%.

CONCLUSIONS

The following conclusions are provided based on our assessment:

- The results of mold air sampling indicated that total airborne mold spore concentrations inside the building were below the total mold spore levels measured in the two outdoor samples and concentrations of mold spore types inside the building were less than the highest corresponding outdoor mold spore levels measured. This is considered to be a favorable condition in the indoor environment.

- Levels of common allergens were identified from the dust samples in the "moderate" category (dust mites, mouse, cat and dog) and in the "high" category (cat).

- Temperature levels were within ASHRAE guideline ranges and relative humidity levels were within EPA guideline ranges.

- Many of the offices and cubicles had air filtration devices present, but few were running at the time of our assessment.

RECOMMENDATIONS

The following recommendations are provided based on our assessment:

- Information regarding allergen levels interpreted by EMSL should be provided to the facility manager in the event of indoor air quality complaints with employees expressing allergy-like symptoms.

- Specialized cleaning in areas with "moderate" and "high" allergen results should be considered. This cleaning should include HEPA vacuuming and damp wiping of the areas identified in these risk categories.

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

Sincerely,
Terracon Consultants, Inc.

Benjamin Hestir, P.E.
Project Industrial Hygienist

Scott D. Rohlf CIH
Authorized Project Reviewer

Attachments: Photographs
Laboratory Results

Photographs

Laboratory Results

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200 Route 130 North Cinnaminson, NJ 08077
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http://www.EMSL.com / cinnmicrolab@emsl.com

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Customer PO: 86127158Task87
Project ID:

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Terracon Consultants, Inc.
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Greenville, SC 29615

Phone: (864) 292-2901
Fax: (864) 292-6361
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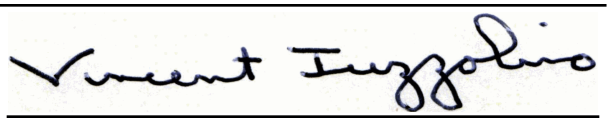
Proj: Administrative Services Building

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

Lab Sample Number:	371707599-0001			371707599-0002			371707599-0003		
Client Sample ID:	ASB-1			ASB-2			ASB-3		
Volume (L):	75			75			75		
Sample Location:	Room 105 - Nebesky			Room 158A - Rotondi			Room 164 - Central File		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	1	40	3.9	-	-	-	1*	10*	3.8
Aspergillus/Penicillium	4	200	19.4	-	-	-	-	-	-
Basidiospores	15	640	62.1	6*	80*	88.9	5	200	76.9
Bipolaris++	1	40	3.9	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	3	100	9.7	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	1*	10*	11.1	1*	10*	3.8
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	1*	10*	1	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	1	40	15.4
Botrytis	-	-	-	-	-	-	-	-	-
Oidium	-	-	-	-	-	-	-	-	-
Peronospora	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Spegazzinia	-	-	-	-	-	-	-	-	-
Total Fungi	**25**	**1030**	**100**	**7**	**90**	**100**	**8**	**260**	**100**
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	4*	50*	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	3	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	1	-	-	1	-

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

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



Vincent Iuzzolino, 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. 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. Cinnaminson, NJ AIHA-LAP, LLC--EMLAP Lab 100194

Initial report from: 05/02/2017 08:48:12

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

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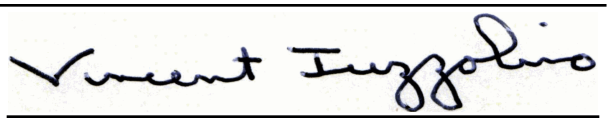
Proj: Administrative Services Building

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

Lab Sample Number:	371707599-0004			371707599-0005			371707599-0006		
Client Sample ID:	ASB-4			ASB-5			ASB-6		
Volume (L):	75			75			75		
Sample Location:	Room 168 - Cato			Room 170 - Kerr			Room 172 - Gagnon		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	4	200	36.4	4	200	28.2	9	400	55.6
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	7	300	54.5	11	470	66.2	8	300	41.7
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1	40	7.3	1	40	5.6	1*	10*	1.4
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	1*	10*	1.4
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	1*	10*	1.8	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	-	-	-
Oidium	-	-	-	-	-	-	-	-	-
Peronospora	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Spegazzinia	-	-	-	-	-	-	-	-	-
Total Fungi	**13**	**550**	**100**	**16**	**710**	**100**	**19**	**720**	**100**
Hyphal Fragment	1	40	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	1*	10*	-
Pollen	1*	10*	-	1*	10*	-	2*	30*	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.



Vincent Iuzzolino, M.S., Laboratory Director
or Other Approved Signatory

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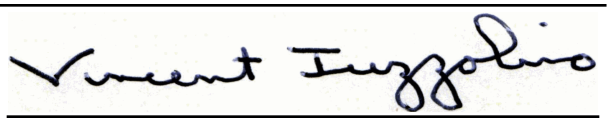
Proj: Administrative Services Building

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

Lab Sample Number:	371707599-0007			371707599-0008			371707599-0009		
Client Sample ID:	ASB-7			ASB-8			ASB-9		
Volume (L):	75			75			75		
Sample Location:	Room 176 - Kennedy			Room 186 - Training			Room 102 - Meeting		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	4	200	42.6	3	100	20.8	12*	160*	28.1
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	5	200	42.6	6	300	62.5	9	400	70.2
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1	40	8.5	1	40	8.3	1*	10*	1.8
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Botrytis	2*	30*	6.4	-	-	-	-	-	-
Oidium	-	-	-	-	-	-	-	-	-
Peronospora	-	-	-	1	40	8.3	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Spegazzinia	-	-	-	-	-	-	-	-	-
Total Fungi	**12**	**470**	**100**	**11**	**480**	**100**	**22**	**570**	**100**
Hyphal Fragment	2*	30*	-	-	-	-	-	-	-
Insect Fragment	1*	10*	-	-	-	-	-	-	-
Pollen	1	40	-	4	200	-	1	40	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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

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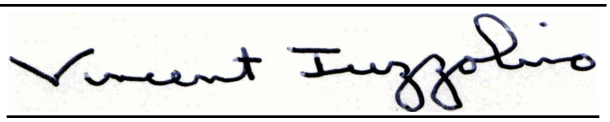
Proj: Administrative Services Building

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

Lab Sample Number:	371707599-0010			371707599-0011			371707599-0012		
Client Sample ID:	ASB-10			ASB-11			ASB-12		
Volume (L):	75			75			75		
Sample Location:	Room 192 - Conf.			Room 100 - Reception			Room 191 - Onboarding		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	1	40	14.3	8*	100*	35.7	3	100	50
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	4	200	71.4	3	100	35.7	2	90	45
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1	40	14.3	1	40	14.3	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	1	40	14.3	1*	10*	5
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	-	-	-
Oidium	-	-	-	-	-	-	-	-	-
Peronospora	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Spegazzinia	-	-	-	-	-	-	-	-	-
Total Fungi	**6**	**280**	**100**	**13**	**280**	**100**	**6**	**200**	**100**
Hyphal Fragment	-	-	-	-	-	-	1	40	-
Insect Fragment	-	-	-	1	40	-	1*	10*	-
Pollen	1*	10*	-	3*	40*	-	1	40	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.



Vincent Iuzzolino, 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. 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. Cinnaminson, NJ AIHA-LAP, LLC--EMLAP Lab 100194

Initial report from: 05/02/2017 08:48:12

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 / cinnmicrolab@emsl.com

Order ID: 371707599
Customer ID: GTER78
Customer PO: 86127158Task87
Project ID:

Attn: Ben Hestir
Terracon Consultants, Inc.
72 Pointe Circle
Greenville, SC 29615

Phone: (864) 292-2901
Fax: (864) 292-6361
Collected: 04/13/2017
Received: 04/18/2017
Analyzed: 04/28/2017

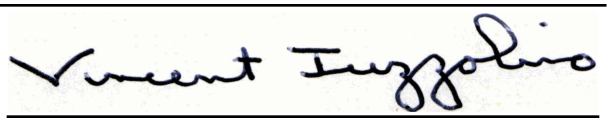
Proj: Administrative Services Building

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

Lab Sample Number:	371707599-0013			371707599-0014			371707599-0015		
Client Sample ID:	ASB-13			ASB-14			ASB-15		
Volume (L):	75			75			75		
Sample Location:	Room 107 - Pigeon			Room 111 - Crump			Cube 1B - Tonkin		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	3	100	34.5	1*	10*	1.2	-	-	-
Aspergillus/Penicillium	-	-	-	10	430	50.6	-	-	-
Basidiospores	3	100	34.5	8	300	35.3	1	40	50
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	3	100	11.8	1	40	50
Curvularia	2	90	31	1*	10*	1.2	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	-	-	-
Oidium	-	-	-	-	-	-	-	-	-
Peronospora	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Spegazzinia	-	-	-	-	-	-	-	-	-
Total Fungi	**8**	**290**	**100**	**23**	**850**	**100**	**2**	**80**	**100**
Hyphal Fragment	-	-	-	2*	30*	-	1*	10*	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	2	90	-	1	40	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.



Vincent Iuzzolino, M.S., Laboratory Director
or Other Approved Signatory

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Initial report from: 05/02/2017 08:48:12

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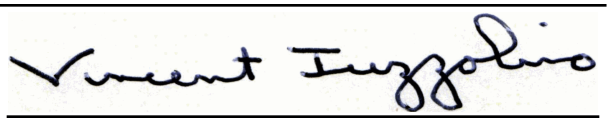
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Test Report: Allergenco-D(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	371707599-0016			371707599-0017			371707599-0018		
Client Sample ID:	ASB-16			ASB-17			ASB-18		
Volume (L):	75			75			75		
Sample Location:	Cube 10B - Butler			Cube 1G - Jones			Cube 8G - Barker		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	2	90	64.3	2*	30*	27.3	3	100	47.6
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	-	-	-	2*	30*	27.3	4*	50*	23.8
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1	40	28.6	1	40	36.4	1*	10*	4.8
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	1	40	19
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	1*	10*	9.1	-	-	-
Rust	-	-	-	-	-	-	1*	10*	4.8
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	1*	10*	7.1	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	-	-	-
Oidium	-	-	-	-	-	-	-	-	-
Peronospora	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Spegazzinia	-	-	-	-	-	-	-	-	-
Total Fungi	**4**	**140**	**100**	**6**	**110**	**100**	**10**	**210**	**100**
Hyphal Fragment	-	-	-	-	-	-	1*	10*	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	2*	30*	-	2	90	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.



Vincent Iuzzolino, M.S., Laboratory Director
or Other Approved Signatory

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Customer PO:	86127158Task87
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Attn: Ben Hestir
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Phone:	(864) 292-2901
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Collected:	04/13/2017
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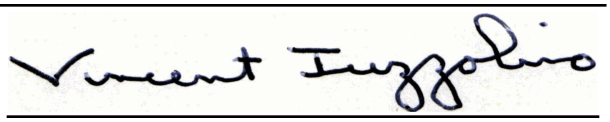
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Test Report: Allergenco-D(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	371707599-0019			371707599-0020		
Client Sample ID:	ASB-19			ASB-20		
Volume (L):	75			75		
Sample Location:	Outside - PO Box			Outside - Parking		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	-	-	-	1	40	1.7
Ascospores	12	520	11.2	6	300	12.9
Aspergillus/Penicillium	11	470	10.2	7	300	12.9
Basidiospores	8	300	6.5	9	400	17.2
Bipolaris++	1*	10*	0.2	1*	10*	0.4
Chaetomium	-	-	-	2	90	3.9
Cladosporium	71	3100	67	24	1000	43.1
Curvularia	-	-	-	-	-	-
Epicoccum	7*	90*	1.9	1	40	1.7
Fusarium	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-
Myxomycetes++	3*	40*	0.9	2*	30*	1.3
Pithomyces	-	-	-	1*	10*	0.4
Rust	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-
Torula	3*	40*	0.9	-	-	-
Ulocladium	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-
Oidium	1*	10*	0.2	-	-	-
Peronospora	1	40	0.9	2	90	3.9
Polythrincium	1*	10*	0.2	-	-	-
Spegazzinia	-	-	-	1*	10*	0.4
Total Fungi	**119**	**4630**	**100**	**57**	**2320**	**100**
Hyphal Fragment	3	100	-	2*	30*	-
Insect Fragment	1*	10*	-	-	-	-
Pollen	9	400	-	17	730	-
Analyt. Sensitivity 600x	-	43	-	-	43	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-

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

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



Vincent Iuzzolino, M.S., Laboratory Director
or Other Approved Signatory

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Phone: **864-292-2901**
Fax: **864-292-6361**

Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

Sample Summary -Indoor Allergen Analysis by MARIA®



Lab Sample Number	Client Sample ID	Sample Location	Sample Type
371707599-0021	ASB-A-1	Room 105 - Nebesky	Bulk
371707599-0022	ASB-A-2	Room 158A - Rotondi	Bulk
371707599-0023	ASB-A-3	Room 164 - Central File	Bulk
371707599-0024	ASB-A-4	Room 168 - Cato	Bulk
371707599-0025	ASB-A-5	Room 170 - Kerr	Bulk
371707599-0026	ASB-A-6	Room 172 - Gagnon	Bulk
371707599-0027	ASB-A-7	Room 176 - Kennedy	Bulk
371707599-0028	ASB-A-8	Room 186 - Training	Bulk
371707599-0029	ASB-A-9	Room 102 - Conf.	Bulk
371707599-0030	ASB-A-10	Room 192 - Conf.	Bulk
371707599-0031	ASB-A-11	Room 100 - Reception	Bulk
371707599-0032	ASB-A-12	Room 191 - Onboarding	Bulk
371707599-0033	ASB-A-13	Room 107 - Pigeon	Bulk
371707599-0034	ASB-A-14	Room 111 - Crump	Bulk
371707599-0035	ASB-A-15	Cube 1B - Tonkin	Bulk
371707599-0036	ASB-A-16	Cube 10B - Butler	Bulk
371707599-0037	ASB-A-17	Cube 1G - Jones	Bulk
371707599-0038	ASB-A-18	Cube 8G - Barker	Bulk

Report Date	Report Revision	Revision Comments
5/2/2017	R0	Initial Report

Vincent Iuzzolino, M.S., Laboratory Director
or approved EMSL Analytical, Inc. signatory

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Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0021**
Client ID: **ASB-A-1**
Location: **Room 105 - Nebesky**

Sample Type: **Bulk**
Sample Size: **35**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**0.26**	µg/g	☑
Dust Mites Allergen	Der p1	0.012	µg/g	**ND**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**0.24**	µg/g	☑
Rat Allergen	Rat n1	0.004	µg/g	**0.05**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**0.61**	µg/g	☑
Dog Allergen	Can f1	0.012	µg/g	**0.86**	µg/g	☑
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

High -Risk of acute asthmatic attack.

Moderate -Risk for sensitization and bronchial hyperactivity.

Low -Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

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Report Date	**Report Revision**	**Revision Comments**
5/2/2017	R0	Initial Report

Vincent Iuzzolino, M.S., Laboratory Director
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Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0022**
Client ID: **ASB-A-2**
Location: **Room 158A - Rotondi**

Sample Type: **Bulk**
Sample Size: **49**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**ND**	µg/g	☑
Dust Mites Allergen	Der p1	0.012	µg/g	**ND**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**1.62**	µg/g	⚠
Rat Allergen	Rat n1	0.004	µg/g	**0.02**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**0.37**	µg/g	☑
Dog Allergen	Can f1	0.012	µg/g	**0.39**	µg/g	☑
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

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Moderate -Risk for sensitization and bronchial hyperactivity.

Low -Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

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EMSL Order #: **371707599**
Customer ID: **GTER78**
Customer PO: **86127158Task87**

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Greenville, SC 29615

Phone: **864-292-2901**
Fax: **864-292-6361**

Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0023**
Client ID: **ASB-A-3**
Location: **Room 164 - Central File**

Sample Type: **Bulk**
Sample Size: **33**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**0.02**	µg/g	☑
Dust Mites Allergen	Der p1	0.012	µg/g	**0.02**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**0.13**	µg/g	☑
Rat Allergen	Rat n1	0.004	µg/g	**0.03**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**0.56**	µg/g	☑
Dog Allergen	Can f1	0.012	µg/g	**0.63**	µg/g	☑
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

High -Risk of acute asthmatic attack.

Moderate -Risk for sensitization and bronchial hyperactivity.

Low -Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

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Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0024**
Client ID: **ASB-A-4**
Location: **Room 168 - Cato**

Sample Type: **Bulk**
Sample Size: **69**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**0.015**	µg/g	☑
Dust Mites Allergen	Der p1	0.012	µg/g	**ND**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**0.02**	µg/g	☑
Rat Allergen	Rat n1	0.004	µg/g	**0.05**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**1.16**	µg/g	⚠
Dog Allergen	Can f1	0.012	µg/g	**0.82**	µg/g	☑
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

High -Risk of acute asthmatic attack.

Moderate -Risk for sensitization and bronchial hyperactivity.

Low -Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

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Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0025**
Client ID: **ASB-A-5**
Location: **Room 170 - Kerr**

Sample Type: **Bulk**
Sample Size: **44**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**ND**	µg/g	☑
Dust Mites Allergen	Der p1	0.012	µg/g	**ND**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**0.02**	µg/g	☑
Rat Allergen	Rat n1	0.004	µg/g	**0.02**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**0.47**	µg/g	☑
Dog Allergen	Can f1	0.012	µg/g	**0.39**	µg/g	☑
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

High -Risk of acute asthmatic attack.

Moderate -Risk for sensitization and bronchial hyperactivity.

Low -Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

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Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0026**
Client ID: **ASB-A-6**
Location: **Room 172 - Gagnon**

Sample Type: **Bulk**
Sample Size: **87**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**0.015**	µg/g	☑
Dust Mites Allergen	Der p1	0.012	µg/g	**ND**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**0.02**	µg/g	☑
Rat Allergen	Rat n1	0.004	µg/g	**0.04**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**2.05**	µg/g	⚠
Dog Allergen	Can f1	0.012	µg/g	**0.66**	µg/g	☑
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

High -Risk of acute asthmatic attack.

Moderate -Risk for sensitization and bronchial hyperactivity.

Low -Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

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Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0027**
Client ID: **ASB-A-7**
Location: **Room 176 - Kennedy**

Sample Type: **Bulk**
Sample Size: **37**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**0.06**	µg/g	☑
Dust Mites Allergen	Der p1	0.012	µg/g	**ND**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**0.03**	µg/g	☑
Rat Allergen	Rat n1	0.004	µg/g	**0.03**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**0.80**	µg/g	☑
Dog Allergen	Can f1	0.012	µg/g	**0.54**	µg/g	☑
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

High -Risk of acute asthmatic attack.

Moderate -Risk for sensitization and bronchial hyperactivity.

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Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0028**
Client ID: **ASB-A-8**
Location: **Room 186 - Training**

Sample Type: **Bulk**
Sample Size: **1 Filter**
Sample Units: **Filter**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.03	ng/filter	**ND**	ng/filter	†
Dust Mites Allergen	Der p1	0.03	ng/filter	**ND**	ng/filter	†
Mouse Allergen	Mus m1	0.005	ng/filter	**0.01**	ng/filter	†
Rat Allergen	Rat n1	0.01	ng/filter	**ND**	ng/filter	†
Cat Allergen	Fel d1	0.01	ng/filter	**ND**	ng/filter	†
Dog Allergen	Can f1	0.03	ng/filter	**ND**	ng/filter	†
Cockroach Allergen	Bla g2	0.03	ng/filter	**ND**	ng/filter	†

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

High -Risk of acute asthmatic attack.

Moderate -Risk for sensitization and bronchial hyperactivity.

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Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0029**
Client ID: **ASB-A-9**
Location: **Room 102 - Conf.**

Sample Type: **Bulk**
Sample Size: **29**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**0.02**	µg/g	☑
Dust Mites Allergen	Der p1	0.012	µg/g	**ND**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**0.07**	µg/g	☑
Rat Allergen	Rat n1	0.004	µg/g	**0.04**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**0.90**	µg/g	☑
Dog Allergen	Can f1	0.012	µg/g	**0.64**	µg/g	☑
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

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Moderate -Risk for sensitization and bronchial hyperactivity.

Low -Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

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Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0030**
Client ID: **ASB-A-10**
Location: **Room 192 - Conf.**

Sample Type: **Bulk**
Sample Size: **72**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**0.02**	µg/g	☑
Dust Mites Allergen	Der p1	0.012	µg/g	**0.03**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**0.42**	µg/g	☑
Rat Allergen	Rat n1	0.004	µg/g	**0.03**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**1.61**	µg/g	⚠
Dog Allergen	Can f1	0.012	µg/g	**0.49**	µg/g	☑
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

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Moderate -Risk for sensitization and bronchial hyperactivity.

Low -Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

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Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0031**
Client ID: **ASB-A-11**
Location: **Room 100 - Reception**

Sample Type: **Bulk**
Sample Size: **52**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**ND**	µg/g	☑
Dust Mites Allergen	Der p1	0.012	µg/g	**ND**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**0.01**	µg/g	☑
Rat Allergen	Rat n1	0.004	µg/g	**0.02**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**1.35**	µg/g	⚠
Dog Allergen	Can f1	0.012	µg/g	**0.35**	µg/g	☑
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

High -Risk of acute asthmatic attack.

Moderate -Risk for sensitization and bronchial hyperactivity.

Low -Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

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EMSL Order #: **371707599**
Customer ID: **GTER78**
Customer PO: **86127158Task87**

Attn: **Ben Hestir**
Terracon Consultants, Inc.
72 Pointe Circle
Greenville, SC 29615

Phone: **864-292-2901**
Fax: **864-292-6361**

Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0032**
Client ID: **ASB-A-12**
Location: **Room 191 - Onboarding**

Sample Type: **Bulk**
Sample Size: **36**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**0.02**	µg/g	☑
Dust Mites Allergen	Der p1	0.012	µg/g	**ND**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**0.05**	µg/g	☑
Rat Allergen	Rat n1	0.004	µg/g	**0.15**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**2.05**	µg/g	⚠
Dog Allergen	Can f1	0.012	µg/g	**2.76**	µg/g	⚠
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

High -Risk of acute asthmatic attack.

Moderate -Risk for sensitization and bronchial hyperactivity.

Low -Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

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Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0033**
Client ID: **ASB-A-13**
Location: **Room 107 - Pigeon**

Sample Type: **Bulk**
Sample Size: **43**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**1.37**	µg/g	☑
Dust Mites Allergen	Der p1	0.012	µg/g	**0.02**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**0.28**	µg/g	☑
Rat Allergen	Rat n1	0.004	µg/g	**0.04**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**0.71**	µg/g	☑
Dog Allergen	Can f1	0.012	µg/g	**0.67**	µg/g	☑
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

High -Risk of acute asthmatic attack.

Moderate -Risk for sensitization and bronchial hyperactivity.

Low -Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

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Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0034**
Client ID: **ASB-A-14**
Location: **Room 111 - Crump**

Sample Type: **Bulk**
Sample Size: **35**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**4.61**	µg/g	⚠
Dust Mites Allergen	Der p1	0.012	µg/g	**0.05**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**0.41**	µg/g	☑
Rat Allergen	Rat n1	0.004	µg/g	**0.03**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**1.07**	µg/g	⚠
Dog Allergen	Can f1	0.012	µg/g	**0.50**	µg/g	☑
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

High -Risk of acute asthmatic attack.

Moderate -Risk for sensitization and bronchial hyperactivity.

Low -Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

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Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0035**
Client ID: **ASB-A-15**
Location: **Cube 1B - Tonkin**

Sample Type: **Bulk**
Sample Size: **62**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**0.14**	µg/g	☑
Dust Mites Allergen	Der p1	0.012	µg/g	**ND**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**1.41**	µg/g	⚠
Rat Allergen	Rat n1	0.004	µg/g	**0.14**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**14.71**	µg/g	⛔
Dog Allergen	Can f1	0.012	µg/g	**2.55**	µg/g	⚠
Cockroach Allergen	Bla g2	0.012	µg/g	**0.02**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

⛔ **High** -Risk of acute asthmatic attack.

⚠ **Moderate** -Risk for sensitization and bronchial hyperactivity.

☑ **Low** -Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

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Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0036**
Client ID: **ASB-A-16**
Location: **Cube 10B - Butler**

Sample Type: **Bulk**
Sample Size: **34**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**2.03**	µg/g	⚠
Dust Mites Allergen	Der p1	0.012	µg/g	**0.03**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**0.46**	µg/g	☑
Rat Allergen	Rat n1	0.004	µg/g	**0.02**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**0.62**	µg/g	☑
Dog Allergen	Can f1	0.012	µg/g	**0.24**	µg/g	☑
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

High -Risk of acute asthmatic attack.

Moderate -Risk for sensitization and bronchial hyperactivity.

Low -Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

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Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0037**
Client ID: **ASB-A-17**
Location: **Cube 1G - Jones**

Sample Type: **Bulk**
Sample Size: **34**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**0.59**	µg/g	☑
Dust Mites Allergen	Der p1	0.012	µg/g	**ND**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**1.49**	µg/g	⚠
Rat Allergen	Rat n1	0.004	µg/g	**0.03**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**0.34**	µg/g	☑
Dog Allergen	Can f1	0.012	µg/g	**0.52**	µg/g	☑
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

High -Risk of acute asthmatic attack.

Moderate -Risk for sensitization and bronchial hyperactivity.

Low -Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

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Date Collected: **4/13/2017**
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Date Analyzed: **4/25/2017**

EMSL Sample #: **371707599-0038**
Client ID: **ASB-A-18**
Location: **Cube 8G - Barker**

Sample Type: **Bulk**
Sample Size: **40**
Sample Units: **mg**

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	*Antigens*	*Detection Limits*		*Concentrations*		*Allergen Risk Levels*
Dust Mites Allergen	Der f1	0.012	µg/g	**1.65**	µg/g	☑
Dust Mites Allergen	Der p1	0.012	µg/g	**0.02**	µg/g	☑
Mouse Allergen	Mus m1	0.002	µg/g	**1.19**	µg/g	⚠
Rat Allergen	Rat n1	0.004	µg/g	**0.02**	µg/g	†
Cat Allergen	Fel d1	0.004	µg/g	**0.69**	µg/g	☑
Dog Allergen	Can f1	0.012	µg/g	**0.39**	µg/g	☑
Cockroach Allergen	Bla g2	0.012	µg/g	**ND**	µg/g	☑

†Sufficient evidence is not available for risk levels.

Allergen Risk Levels:

High -Risk of acute asthmatic attack.

Moderate -Risk for sensitization and bronchial hyperactivity.

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Guidelines to Interpretation

µg/g

Allergens	<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

µg/g

	<DL	<0.08	0.08	0.09	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
Bla g2 †	ND	Low	Mod	Mod	Mod	Mod	Mod	Mod	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
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Pediatric allergy-principles and practice. Mosby Inc 2003: 261-268.

Terminology

ELISA	Enzyme-linked Immunosorbent Assay
MARIA®	Multiplex Array for Indoor Allergens
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 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
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

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EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800)220-3675 / (856)786-0262
http://www.EMSL.com cinnmicrolab@emsl.com

EMSL Order #: **371707599**
Customer ID: **GTER78**
Customer PO: **86127158Task87**

Attn: **Ben Hestir**
Terracon Consultants, Inc.
72 Pointe Circle
Greenville, SC 29615

Phone: **864-292-2901**
Fax: **864-292-6361**

Project: **Administrative Services Building**

Date Collected: **4/13/2017**
Date Received: **4/18/2017**
Date Analyzed: **4/25/2017**



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 the original sample delivery group (SDG) samples. In no event shall EMSL be liable to a client orvalue of 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.

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 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.

Report Date	Report Revision	Revision Comments
5/2/2017	R0	Initial Report

Vincent Iuzzolino, M.S., Laboratory Director
or approved EMSL Analytical, Inc. signatory

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EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only): 371707599

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:** Terracon	**Client ID #:**
Company Name: Terracon		**Attention To:**	
Street: 72 Ponte Circle		**Street:**	
City: Greenville	**State/Province:** SC **Zip/Postal Code:** 29615	**City:**	**State/Province:** **Zip/Postal Code:**
Phone : 864-293-7348 **Fax :**		**Phone:**	**Fax:**
Project Name: Administrative Services Bldg.		**Email Results To:** ben.hestir@terracon.com	**U.S. State where Samples Collected:** SC
# Samples in Shipment: 38	**Date of Shipment:** 4/14/17	**Purchase Order:**	**Sampled By (Signature):** Ben Hestir

Turnaround Time (TAT) – Please Check: If No Selection Made, Standard 2 Week TAT Will Apply

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

Media Type:

Manufacturer/Part #: **Lot #:**

Client Sample ID	Location/Description	Analyte / Method	Media	Flow (lpm)	Sample Time On	Sample Time Off	Volume / Area	Sample Type	Sample Date	Comments
ASB-1	Rm 105-Nebesky	M032	Allergenco	15	910	915	75	☒ Area ☐ Personal	4/13/17	
ASB-2	Rm 158A-Rotondi	↓	↓	↓	920	925	↓	☒ Area ☐ Personal	↓	
ASB-3	Rm 164-Central File	↓	↓	↓	928	933	↓	☒ Area ☐ Personal	↓	
ASB-4	Rm 168-Cato	↓	↓	↓	938	943	↓	☒ Area ☐ Personal	↓	
ASB-5	Rm 170-Kerr	↓	↓	↓	946	951	↓	☒ Area ☐ Personal	↓	
ASB-6	Rm 172-Gagnon	↓	↓	↓	954	959	↓	☒ Area ☐ Personal	↓	
ASB-7	Rm 176-Kennedy	↓	↓	↓	1003	1008	↓	☒ Area ☐ Personal	↓	
ASB-8	Rm 186-Training	↓	↓	↓	1011	1016	↓	☒ Area ☐ Personal	↓	

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 Terracon	4/14/17		4/18/17 910

Comments:

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Rev Ben Wendell 4/18/17

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

Client Sample ID	Location/Description	Analyte / Method	Media	Flow (lpm)	Sample Time On	Sample Time Off	Volume / Area	Sample Type	Sample Date	Comments
ASB-9	Rm 107 - Meeting	M032	Allergeno	15	1020	1025	75	☒ Area ☐ Personal	4/13/17	
ASB-10	Rm 192 - Conf.	↓	↓	↓	1032	1037	↓	☐ Area ☐ Personal	↓	
ASB-11	Rm 100 - Reception	↓	↓	↓	1041	1046	↓	☐ Area ☐ Personal	↓	
ASB-12	Rm 191 - Onboarding	↓	↓	↓	1050	1055	↓	☐ Area ☐ Personal	↓	
ASB-13	Rm 107 - Pigeon	↓	↓	↓	1108	1113	↓	☐ Area ☐ Personal	↓	
ASB-14	Rm 111 - Crump	↓	↓	↓	1118	1123	↓	☐ Area ☐ Personal	↓	
ASB-15	Cube 1B - Jonkin	↓	↓	↓	1126	1131	↓	☐ Area ☐ Personal	↓	
ASB-16	Cube 10B - Butler	↓	↓	↓	1140	1145	↓	☐ Area ☐ Personal	↓	
ASB-17	Cube 16 - Jones	↓	↓	↓	1148	1153	↓	☐ Area ☐ Personal	↓	
ASB-18	Cube 86 - Barker	↓	↓	↓	1156	1201	↓	☐ Area ☐ Personal	↓	
ASB-19	Outside - POBox	↓	↓	↓	1115	1120	↓	☐ Area ☐ Personal	4/14/17	
ASB-20	Outside - Parking	↓	↓	↓	1123	1128	↓	☐ Area ☐ Personal	↓	Methods:
BAR ASB-[illegible]A-1	Rm 105 - Nebesky	Allergens	Dust cassette	N/A	0833		N/A	☐ Area ☐ Personal	↓	M038, M039, M044
ASB-[illegible]-2	Rm 158A - Rotondi	↓	↓	↓	0843		↓	☐ Area ☐ Personal	↓	↓

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Methods

Client Sample ID	Location/Description	Analyte / Method	Media	Flow (lpm)	Sample Time On	Sample Time Off	Volume / Area	Sample Type	Sample Date	Comments
ASB-A-3	Rm 164-CentralFile	Allesgens	Dust cassette	NA	0853		NA	☐ Area ☐ Personal	4/14/17	M038, M039, M044
ASB-A-4	Rm 168 - Cato	↓	↓	↓	0902		↓	☐ Area ☐ Personal	↓	↓
ASB-A-5	Rm 170 - Kerr				0911			☐ Area ☐ Personal		
ASB-A-6	Rm 172 - Gagnon				0918			☐ Area ☐ Personal		
ASB-A-7	Rm 176 - Kennedy				0926			☐ Area ☐ Personal		
ASB-A-8	Rm 186 - Training				0936			☐ Area ☐ Personal		
ASB-A-9	Rm 102 - Conf.				0946			☐ Area ☐ Personal		
ASB-A-10	Rm 192 - Conf.				0953			☐ Area ☐ Personal		
ASB-A-11	Rm 100 - Reception				1003			☐ Area ☐ Personal		
ASB-A-12	Rm 191 - Onboarding				1010			☐ Area ☐ Personal		
ASB-A-13	Rm 107 - Pigeon				1021			☐ Area ☐ Personal		
ASB-A-14	Rm 111 - Crump				1028			☐ Area ☐ Personal		
ASB-A-15	Cube 1B - Tonkin				1038			☐ Area ☐ Personal		
ASB-A-16	Cube 10B - Butler	↓	↓	↓	1047		↓	☐ Area ☐ Personal	↓	↓

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Client Sample ID	Location/Description	Analyte / Method	Media	Flow (lpm)	Sample Time On	Sample Time Off	Volume / Area	Sample Type	Sample Date	Comments
ASB-A-17	Cube 16-Jones	Allergens	Dust cassette	NA	1056		NA	☐ Area ☐ Personal	4/14/17	M038, M039, M044
ASB-A-18	Cube 86-Barker	↓	↓	↓	1104		↓	☐ Area ☐ Personal	↓	↓
								☐ Area ☐ Personal		
								☐ Area ☐ Personal		
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