



HYGIENETECH

Hygiene Technologies International, Inc.

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January 5, 2016

California State Board of Equalization
450 N Street
Sacramento, California 94279

Document No. 21511001.1

Attention: Edna B. Murphy
Deputy Director Administration Department

Regarding: Limited Fungal Growth Exposure Assessment Surveys
November 2015 Random Sampling

Dear Ms. Murphy:

On November 2, 13, 18 and 25, 2015, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted limited fungal growth exposure assessment surveys involving 23 randomly selected areas located within the California State Board of Equalization (BOE) building. The findings of the surveys, along with the analytical data, conclusions, and recommendations when applicable, appear below.

On the survey dates, air samples were collected for total (viable and nonviable) fungi analyses using a Zefon brand Bio-Pump Plus™ equipped with Air-O-Cell™ cassettes. All such samples were subsequently analyzed for fungi (including yeasts, molds, rusts, smuts, and mushrooms) by trained and experienced microbiologists at a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program. The airborne fungi assessment analytical data with supporting and background information appear in the enclosed table.

As presented in Table 21511001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Epicoccum*, *Nigrospora*, other brown, rusts, smuts, *Torula*, *Trichocladium*, and/or *Ulocladium*. In the indoor areas tested, the data showed that airborne fungal spores were either not detected at or above the laboratory detection limit indicated or were detected at low airborne concentrations. The fungal spore types found indoor included *Alternaria*, basidiospores, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Oidium*, other brown, *Pithomyces*, rusts, smuts and/or *Stemphylium*. The distribution of fungal spore types detected in the surveyed areas was generally consistent with those found outdoors, and the overall data within the tested areas were well below the overall outdoor data recorded. These data are considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.



Be advised that the data provided in this report only represent limited fungal growth and exposure potentials that existed at the time these surveys were performed and at the precise sample locations indicated. Note that fungal growth and exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, or other factors. Also be advised that additional fungal growth may exist at one or more locations in the structure that were not specifically assessed during the surveys.

If you have any comments or questions regarding the information contained in this correspondence, please feel free to contact our offices directly at (310) 370-8370.

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

A handwritten signature in black ink, appearing to read 'Kenny', is written over a solid horizontal line.

Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 21511001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
NOVEMBER 2, 13, 18, AND 25, 2015

Page 1

Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21511001-1 TM01OUT	21511001-1 TM02	21511001-1 TM03	21511001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet northeast of main entrance; approximately five feet above ground/Normal outdoor activities	2 nd Floor; Elevator Lobby; about center; approximately five feet above floor/ Normal office activities	3 rd Floor; Room 302; about center; approximately five feet above floor/Normal office activities	4 th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities
DATE	11/02/15	11/02/15	11/02/15	11/02/15
START/STOP	10:49:00/10:54:00	10:56:00/11:01:00	11:04:00/11:09:00	11:11:00/11:16:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores	5,300			
Basidiospores	4,300			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	320			53
Curvularia				
Epicoccum				
Fusarium				
Nigrospora	13			
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types	110	53		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				13
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	10,000	53	<13	67

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

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450 N STREET
SACRAMENTO, CALIFORNIA
NOVEMBER 2, 13, 18, AND 25, 2015

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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21511001-1 TM05	21511001-1 TM06	21511001-1 TM07OUT	21511001-1 TM08
SAMPLING LOCATION/ACTIVITIES	5 th Floor; Quiet Room 504; about five feet north of entry door; approximately five feet above floor/Normal office activities	6 th Floor; Conference Room 611; northwestern corner; approximately five feet above floor/Normal office activities	Outdoors; about 25 feet northeast of main entrance; approximately five feet above ground/Normal outdoor activities	14 th Floor; Mail/Storage Room 14B; about center; approximately five feet above floor/Normal office activities
DATE	11/02/15	11/02/15	11/13/15	11/13/15
START/STOP	10:54:00/10:59:00	11:04:00/11:09:00	15:05:00/15:10:00	15:19:00/15:24:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		13	27	
Ascospores			160	
Basidiospores			5,200	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53	4,800	
Curvularia				
Epicoccum			13	
Fusarium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types			430	
Pithomyces				
Rusts			13	
Smuts (Periconia, Myxomycetes)			13	
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	13	<13	27	<13
Background debris*	1+	2+	3+	2+
TOTAL**	<13	67	11,000	53

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21511001-1 TM09	21511001-1 TM10	21511001-1 TM11	21511001-1 TM12
SAMPLING LOCATION/ACTIVITIES	15 th Floor; Mail/Storage Room 14B; about center; approximately five feet above floor/Normal office activities	16 th Floor; Mail/Storage Room 14B; about center; approximately five feet above floor/Normal office activities	17 th Floor; Break Room 1710; about center; approximately five feet above floor/Normal office activities	18 th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities
DATE	11/13/15	11/13/15	11/13/15	11/13/15
START/STOP	15:26:00/15:31:00	15:35:00/15:40:00	15:43:00/15:48:00	15:51:00/15:56:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Basidiospores	53		53	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53		110	53
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				53
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background debris*	2+	2+	2+	3+
TOTAL **	110	<13	160	120

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21511001-1 TM13OUT	21511001-1 TM14	21511001-1 TM15	21511001-1 TM16
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 20 feet west of the building; approximately five feet above ground/Normal outdoor activities	10 th Floor; Column K17 area; Cubicle 6; southeastern corner; approximately five feet above floor/Normal office activities	9 th Floor; Break Room 910; about center; approximately five feet above floor/Normal office activities	8 th Floor; Column N21 area; Cubicle 167; approximately five feet above floor/Normal office activities
DATE	11/18/15	11/18/15	11/18/15	11/18/15
START/STOP	14:17:00/14:22:00	14:28:00/14:33:00	14:40:00/14:45:00	14:49:00/14:54:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores	430			
Basidiospores	4,800		53	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	13			
Cladosporium	8,800	53	53	110
Curvularia				
Epicoccum	13			
Nigrospora	13			
Oidium				
Other brown	27	13		
Penicillium/Aspergillus types	6,700	360		
Pithomyces				
Rusts	13			
Smuts (Periconia, Myxomycetes)	250			13
Stachybotrys				
Stemphylium				
Torula	13			
Trichocladium	13			
Ulocladium	27			
Zygomycetes				
Hyphal fragments	150	13	<13	<13
Background debris*	3+	2+	3+	3+
TOTAL**	21,000	430	110	120

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21511001-1 TM17	21511001-1 TM18	21511001-1 TM19	21511001-1 TM20OUT
SAMPLING LOCATION/ACTIVITIES	7 th Floor; Copy Room 708; about center; approximately five feet above floor/Normal office activities	5 th Floor; southern corridor adjacent to Storage Room 5A; approximately five feet above floor/Normal office activities	1 st Floor; Cafeteria; corridor adjacent to Room 114; approximately five feet above floor/Normal office activities	Outdoors; about 20 feet south of the building; approximately five feet above ground/Normal outdoor activities
DATE	11/18/15	11/18/15	11/18/15	11/25/15
START/STOP	14:56:00/15:01:00	15:03:00/15:08:00	15:17:00/15:22:00	10:47:00/10:52:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	120
Ascospores				850
Basidiospores			110	2,300
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53	53	750
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types	53		53	160
Pithomyces		13		
Rusts		13		
Smuts (Periconia, Myxomycetes)		13		27
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				13
Zygomycetes				
Hyphal fragments	<13	<13	13	27
Background debris*	1+	3+	3+	3+
TOTAL**	53	93	230	4,200

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21511001-1 TM21	21511001-1 TM22	21511001-1 TM23	21511001-1 TM24
SAMPLING LOCATION/ACTIVITIES	11 th Floor; Column L23 area; Cubicle 76 entry area; approximately feet above floor/Normal office activities	19 th Floor; Elevator Lobby; about center; approximately feet above floor/Normal office activities	20 th Floor; Elevator Lobby; about center; approximately feet above floor/Normal office activities	21 st Floor; Elevator Lobby; about center; approximately feet above floor/Normal office activities
DATE	11/25/15	11/25/15	11/25/15	11/25/15
START/STOP	10:59:00/11:04:00	11:06:00/11:11:00	11:13:00/11:18:00	11:19:00/11:24:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	
Ascospores				
Basidiospores		53		53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				13
Cladosporium	13		160	
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				13
Penicillium/Aspergillus types			210	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)			13	13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	13	27
Background debris*	3+	3+	3+	3+
TOTAL**	13	53	400	93

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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NOVEMBER 2, 13, 18, AND 25, 2015

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Alternaria				
Ascospores	110		53	
Basidiospores	110	53	110	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53		
Curvularia				
Epicoccum				
Helicoma				
Myrothecium				
Nigrospora				
Oidium				
Other brown	13			
Penicillium/Aspergillus types			110	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	27	13	27	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	
Background debris*	3+	2+	2+	
TOTAL**	250	120	290	

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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Report for:

Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21511001-1
EML ID: 1449017

Approved by:

Dates of Analysis:
Spore trap analysis: 11-02-2015

Technical Manager
Louise White

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1Date of Sampling: 11-02-2015
Date of Receipt: 11-02-2015
Date of Report: 11-03-2015**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21511001-1TM01OUT		21511001-1TM02		21511001-1TM03	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6686504-1		6686505-1		6686506-1	
Analysis Date:	11/02/2015		11/02/2015		11/02/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores	99	5,300				
Basidiospores	81	4,300				
Botrytis						
Chaetomium						
Cladosporium	6	320				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora	1	13				
Other colorless						
Penicillium/Aspergillus types†	2	110	1	53		
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		10.000		53		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-02-2015
 Date of Receipt: 11-02-2015
 Date of Report: 11-03-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21511001-1TM04		21511001-1TM05		21511001-1TM06	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6686507-1		6686508-1		6686509-1	
Analysis Date:	11/02/2015		11/02/2015		11/02/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13
Ascospores						
Basidiospores						
Botrytis						
Chaetomium						
Cladosporium	1	53			1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium	1	13				
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		1+		2+	
Hyphal fragments/m3	< 13		13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		< 1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		67		< 13		67

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

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Re: 21511001-1

Date of Sampling: 11-02-2015
Date of Receipt: 11-02-2015
Date of Report: 11-03-2015

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21511001-1TM01OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: November in California† (n‡=16365)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	67	120	56	13	13	27	63	100	53
Bipolaris/Drechslera group	-	8	13	13	27	53	15	7	13	13	27	50	12
Chaetomium	-	10	13	13	33	53	19	8	13	13	27	50	19
Cladosporium	320	160	360	1,000	3,100	5,900	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	27	53	9	7	13	13	27	53	6
Nigrospora	13	8	13	13	40	67	14	7	13	13	27	53	9
Penicillium/Aspergillus types	110	53	110	320	850	1,500	89	53	100	210	610	1,000	84
Stachybotrys	-	11	13	13	40	67	5	7	13	13	33	67	4
Stemphylium	-	7	13	13	27	40	9	7	13	13	27	40	9
Torula	-	10	13	13	40	67	9	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	5,300	20	53	120	530	1,100	71	25	53	110	370	700	71
Basidiospores	4,300	53	110	430	2,500	6,100	95	53	80	270	1,000	2,400	93
Rusts	-	13	13	13	53	93	27	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	-	13	13	40	110	190	70	13	13	40	110	210	68
§ TOTAL SPORES/m3	10,000												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-02-2015
 Date of Receipt: 11-02-2015
 Date of Report: 11-03-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21511001-1TM01OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					13 - 210 - 6,100	76
Basidiospores					13 - 430 - 24,000	92
Cladosporium					27 - 480 - 10,000	90
Nigrospora					7 - 13 - 240	16
Penicillium/Aspergillus types					13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes					7 - 53 - 950	64
Total						

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21511001-1TM02

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 2.5000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					
Total					

Location: 21511001-1TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 2.5000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-02-2015
 Date of Receipt: 11-02-2015
 Date of Report: 11-03-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21511001-1TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 2.5000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.1143 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Stemphylium					13
Total					67

Location: 21511001-1TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 2.5000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					< 13

Location: 21511001-1TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 2.5000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.1143 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					53
Total					67

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1Date of Sampling: 11-02-2015
Date of Receipt: 11-02-2015
Date of Report: 11-03-2015**MoldSTAT™: Supplementary Statistical Spore Trap Report**

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H₀) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

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Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-02-2015
 Date of Receipt: 11-02-2015
 Date of Report: 11-03-2015

MoldSCORE™: Spore Trap Report

Location: 21511001-1TM03

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						N/A				Final MoldSCORE 100

Location: 21511001-1TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Stemphylium					1	13				105
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						67				Final MoldSCORE 105

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-02-2015
 Date of Receipt: 11-02-2015
 Date of Report: 11-03-2015

MoldSCORE™: Spore Trap Report

Location: 21511001-1TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						N/A			Final MoldSCORE 100

Location: 21511001-1TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria	█				1	13			105
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium	█				1	53			103
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						67			Final MoldSCORE 105

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1

Date of Sampling: 11-02-2015
Date of Receipt: 11-02-2015
Date of Report: 11-03-2015

MoldSCORE™: Spore Trap Report

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.



Report for:

Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21511001-1
EML ID: 1455284

Approved by:

Dates of Analysis:
Spore trap analysis: 11-16-2015

Technical Manager
Louise White

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1Date of Sampling: 11-13-2015
Date of Receipt: 11-13-2015
Date of Report: 11-16-2015**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21511001-1TM07OUT		21511001-1TM08		21511001-1TM09	
Comments (see below)	A		None		None	
Lab ID-Version‡:	6718040-1		6718041-1		6718042-1	
Analysis Date:	11/16/2015		11/16/2015		11/16/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27				
Ascospores	3	160				
Basidiospores	97	5,200	1	53	1	53
Chaetomium						
Cladosporium	126	4,800			1	53
Curvularia						
Epicoccum	1	13				
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†	8	430				
Pithomyces						
Rusts	1	13				
Smuts, Periconia, Myxomycetes	1	13				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		2+		2+	
Hyphal fragments/m3	27		< 13		< 13	
Pollen/m3	13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		11,000		53		110

Comments: A) 48 of the raw count *Cladosporium* spores were present as a single clump.

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

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-13-2015
 Date of Receipt: 11-13-2015
 Date of Report: 11-16-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21511001-1TM10		21511001-1TM11		21511001-1TM12	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6718043-1		6718044-1		6718045-1	
Analysis Date:	11/16/2015		11/16/2015		11/16/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores			1	53		
Chaetomium						
Cladosporium			2	110	1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†					1	53
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes					1	13
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		3+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		< 13		160		120

Comments:

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

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

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The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

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§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1

Date of Sampling: 11-13-2015
Date of Receipt: 11-13-2015
Date of Report: 11-16-2015

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21511001-1TM07OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: November in California† (n‡=16365)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	27	13	13	27	67	120	56	13	13	27	63	100	53
Bipolaris/Drechslera group	-	8	13	13	27	53	15	7	13	13	27	50	12
Chaetomium	-	10	13	13	33	53	19	8	13	13	27	50	19
Cladosporium	4,800	160	360	1,000	3,100	5,900	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	27	53	9	7	13	13	27	53	6
Epicoccum	13	8	13	13	40	57	20	8	13	13	38	53	19
Nigrospora	-	8	13	13	40	67	14	7	13	13	27	53	9
Penicillium/Aspergillus types	430	53	110	320	850	1,500	89	53	100	210	610	1,000	84
Stachybotrys	-	11	13	13	40	67	5	7	13	13	33	67	4
Torula	-	10	13	13	40	67	9	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	160	20	53	120	530	1,100	71	25	53	110	370	700	71
Basidiospores	5,200	53	110	430	2,500	6,100	95	53	80	270	1,000	2,400	93
Rusts	13	13	13	13	53	93	27	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	13	13	13	40	110	190	70	13	13	40	110	210	68
§ TOTAL SPORES/m3	11,000												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

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Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-13-2015
 Date of Receipt: 11-13-2015
 Date of Report: 11-16-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21511001-1TM07OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				27	7 - 40 - 590	45
Ascospores				160	13 - 210 - 6,100	76
Basidiospores				5,200	13 - 430 - 23,000	92
Cladosporium				4,800	27 - 480 - 10,000	90
Epicoccum				13	7 - 26 - 350	24
Penicillium/Aspergillus types				430	13 - 170 - 2,600	68
Rusts				13	7 - 20 - 360	20
Smuts, Periconia, Myxomycetes				13	7 - 53 - 940	64
Total				11,000		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21511001-1TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 3.1500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.6905 Critical value: 0.6190 Outside Similar: Yes	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				53
	Total				53

Location: 21511001-1TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 3.1500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.8095 Critical value: 0.6190 Outside Similar: Yes	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				53
	Cladosporium				53
	Total				110

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-13-2015
 Date of Receipt: 11-13-2015
 Date of Report: 11-16-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21511001-1TM10

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 3.1500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
None Detected		>100K		
		< 13		

Location: 21511001-1TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 3.1500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.7917 Critical value: 0.6190 Outside Similar: Yes	Score: 102 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
		>100K		
Basidiospores		53		
Cladosporium		110		
Total		160		

Location: 21511001-1TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 3.1500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: 0.3988 Critical value: 0.6190 Outside Similar: No	Score: 108 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
		>100K		
Cladosporium		53		
Penicillium/Aspergillus types		53		
Smuts, Periconia, Myxomycetes		13		
Total		120		

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1

Date of Sampling: 11-13-2015
Date of Receipt: 11-13-2015
Date of Report: 11-16-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

****** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

******* The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H₀) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

******** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-13-2015
 Date of Receipt: 11-13-2015
 Date of Report: 11-16-2015

MoldSCORE™: Spore Trap Report

Location: 21511001-1TM09

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium	█				1	53			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores	█				1	53			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						107			
							Final MoldSCORE		100

Location: 21511001-1TM10

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						N/A			
							Final MoldSCORE		100

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-13-2015
 Date of Receipt: 11-13-2015
 Date of Report: 11-16-2015

MoldSCORE™: Spore Trap Report

Location: 21511001-1TM11

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					2	110			102
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					1	53			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						160			
							Final MoldSCORE		102

Location: 21511001-1TM12

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					1	53			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					1	53			108
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					1	13			103
Total						120			
							Final MoldSCORE		108

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1

Date of Sampling: 11-13-2015
Date of Receipt: 11-13-2015
Date of Report: 11-16-2015

MoldSCORE™: Spore Trap Report

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.



Report for:

Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21511001-1
EML ID: 1457495

Approved by:

Dates of Analysis:
Spore trap analysis: 11-19-2015

Technical Manager
Louise White

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1Date of Sampling: 11-18-2015
Date of Receipt: 11-18-2015
Date of Report: 11-19-2015**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21511001-1TM13OUT		21511001-1TM14		21511001-1TM15		21511001-1TM16	
Comments (see below)	A		B		None		None	
Lab ID-Version‡:	6727707-1		6727708-1		6727709-1		6727710-1	
Analysis Date:	11/19/2015		11/19/2015		11/19/2015		11/19/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores	8	430						
Basidiospores	90	4,800			1	53		
Chaetomium	1	13						
Cladosporium	229	8,800	1	53	1	53	2	110
Epicoccum	1	13						
Nigrospora	1	13						
Other brown	2	27	1	13				
Penicillium/Aspergillus types†	249	6,700	21	360				
Pithomyces								
Rusts	1	13						
Smuts, Periconia, Myxomycetes	19	250					1	13
Stachybotrys								
Stemphylium								
Torula	1	13						
Trichocladium	1	13						
Ulocladium	2	27						
Zygomycetes								
Background debris (1-4+)††	3+		2+		3+		3+	
Hyphal fragments/m3	150		13		< 13		< 13	
Pollen/m3	27		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		2+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		21,000		430		110		120

Comments: A) 85 of the raw count *Cladosporium* spores were present as a single clump. 165 of the raw count *Penicillium/Aspergillus* type spores were present as a single clump. B) 19 of the raw count *Penicillium/Aspergillus* type spores were present as a single clump.

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

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1Date of Sampling: 11-18-2015
Date of Receipt: 11-18-2015
Date of Report: 11-19-2015**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21511001-1TM17		21511001-1TM18		21511001-1TM19	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6727711-1		6727712-1		6727713-1	
Analysis Date:	11/19/2015		11/19/2015		11/19/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13
Ascospores						
Basidiospores					2	110
Chaetomium						
Cladosporium			1	53	1	53
Epicoccum						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†	1	53			1	53
Pithomyces			1	13		
Rusts			1	13		
Smuts, Periconia, Myxomycetes			1	13		
Stachybotrys						
Stemphylium						
Torula						
Trichocladium						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+		3+		3+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		13	
Skin cells (1-4+)	< 1+		2+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		53		93		230

Comments:

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

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1Date of Sampling: 11-18-2015
Date of Receipt: 11-18-2015
Date of Report: 11-19-2015**MoldRANGE™: Extended Outdoor Comparison****Outdoor Location: 21511001-1TM13OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data for: November in California† (n‡=16365)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	67	120	56	13	13	27	63	100	53
Bipolaris/Drechslera group	-	8	13	13	27	53	15	7	13	13	27	50	12
Chaetomium	13	10	13	13	33	53	19	8	13	13	27	50	19
Cladosporium	8,800	160	360	1,000	3,100	5,900	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	27	53	9	7	13	13	27	53	6
Epicoccum	13	8	13	13	40	57	20	8	13	13	38	53	19
Nigrospora	13	8	13	13	40	67	14	7	13	13	27	53	9
Other brown	27	13	13	13	40	53	34	13	13	13	40	53	34
Penicillium/Aspergillus types	6,700	53	110	320	850	1,500	89	53	100	210	610	1,000	84
Pithomyces	-	7	13	13	27	42	5	7	13	13	27	53	4
Stachybotrys	-	11	13	13	40	67	5	7	13	13	33	67	4
Torula	13	10	13	13	40	67	9	8	13	13	40	67	11
Trichocladium	13	7	13	13	13	33	2	7	13	13	13	27	2
Ulocladium	27	10	13	13	27	53	14	8	13	13	27	40	10
Seldom found growing indoors**													
Ascospores	430	20	53	120	530	1,100	71	25	53	110	370	700	71
Basidiospores	4,800	53	110	430	2,500	6,100	95	53	80	270	1,000	2,400	93
Rusts	13	13	13	13	53	93	27	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	250	13	13	40	110	190	70	13	13	40	110	210	68
§ TOTAL SPORES/m3	21,000												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-18-2015
 Date of Receipt: 11-18-2015
 Date of Report: 11-19-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21511001-1TM13OUT:

Species detected	Outdoor sample spores/m ³				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				430	13 - 210 - 6,100	76
Basidiospores				4,800	13 - 430 - 23,000	92
Chaetomium				13	7 - 13 - 160	9
Cladosporium				8,800	27 - 480 - 10,000	90
Epicoccum				13	7 - 26 - 350	24
Nigrospora				13	7 - 13 - 240	16
Other brown				27	7 - 17 - 130	24
Penicillium/Aspergillus types				6,700	13 - 170 - 2,600	68
Rusts				13	7 - 20 - 360	20
Smuts, Periconia, Myxomycetes				250	7 - 53 - 940	64
Torula				13	7 - 13 - 170	9
Trichocladium				13	7 - 13 - 53	< 1
Ulocladium				27	7 - 13 - 110	4
Total				21,000		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m³.

Indoor Samples

Location: 21511001-1TM14

% of outdoor total spores/m ³	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	df: 5 Result: 2.3571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3750	df: 13 Result: 0.7115 Critical value: 0.4780 Outside Similar: Yes	Score: 136 Result: Low
Species Detected	Spores/m ³			
	<100	1K	10K	>100K
Cladosporium				53
Other brown				13
Penicillium/Aspergillus types				360
Total				430

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-18-2015
 Date of Receipt: 11-18-2015
 Date of Report: 11-19-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21511001-1TM15

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 2.3571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2667	dF: 13 Result: 0.7102 Critical value: 0.4780 Outside Similar: Yes	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				53
	Cladosporium				53
	Total				110

Location: 21511001-1TM16

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 2.3571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2667	dF: 13 Result: 0.6484 Critical value: 0.4780 Outside Similar: Yes	Score: 104 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Cladosporium				110
	Smuts, Periconia, Myxomycetes				13
	Total				120

Location: 21511001-1TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 2.3571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.1429	dF: 13 Result: 0.6209 Critical value: 0.4780 Outside Similar: Yes	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Penicillium/Aspergillus types				53
	Total				53

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1

Date of Sampling: 11-18-2015
Date of Receipt: 11-18-2015
Date of Report: 11-19-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21511001-1TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 2.3571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3529	dF: 14 Result: 0.2681 Critical value: 0.4593 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Cladosporium				53
	Pithomyces				13
	Rusts				13
	Smuts, Periconia, Myxomycetes				13
	Total				93

Location: 21511001-1TM19

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 5 Result: 2.3571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3529	dF: 14 Result: 0.6022 Critical value: 0.4593 Outside Similar: Yes	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Alternaria				13
	Basidiospores				110
	Cladosporium				53
	Penicillium/Aspergillus types				53
	Total				230

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1Date of Sampling: 11-18-2015
Date of Receipt: 11-18-2015
Date of Report: 11-19-2015**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-18-2015
 Date of Receipt: 11-18-2015
 Date of Report: 11-19-2015

MoldSCORE™: Spore Trap Report

Location: 21511001-1TM15

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium	█				1	53			101
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores	█				1	53			103
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						107			
							Final MoldSCORE		103

Location: 21511001-1TM16

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium	█				2	110			104
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes	█				1	13			102
Total						120			
							Final MoldSCORE		104

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-18-2015
 Date of Receipt: 11-18-2015
 Date of Report: 11-19-2015

MoldSCORE™: Spore Trap Report

Location: 21511001-1TM17

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†	█				1	53			106
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						53			
							Final MoldSCORE		106

Location: 21511001-1TM18

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium	█				1	53			101
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Pithomyces	█				1	13			105
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts	█				1	13			105
Smuts, Periconia, Myxomycetes					1	13			102
Total						93			
							Final MoldSCORE		108

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-18-2015
 Date of Receipt: 11-18-2015
 Date of Report: 11-19-2015

MoldSCORE™: Spore Trap Report

Location: 21511001-1TM19

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					1	13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					1	53				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					1	53				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores					ND	< 13				
Basidiospores					2	110				
Rusts					ND	< 13				
Smuts, Periconia, Myxomycetes					ND	< 13				
Total						227	Final MoldSCORE 106			

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.



Report for:

Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21511001-1
EML ID: 1460639

Approved by:

Dates of Analysis:
Spore trap analysis: 11-27-2015

Technical Manager
Louise White

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1Date of Sampling: 11-25-2015
Date of Receipt: 11-25-2015
Date of Report: 11-27-2015**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21511001-1TM20OUT	21511001-1TM21	21511001-1TM22	21511001-1TM23				
Comments (see below)	None	None	None	None				
Lab ID-Version‡:	6743943-1	6743944-1	6743945-1	6743946-1				
Analysis Date:	11/27/2015	11/27/2015	11/27/2015	11/27/2015				
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	9	120					1	13
Ascospores	16	850						
Basidiospores	43	2,300			1	53		
Chaetomium								
Cladosporium	14	750	1	13			3	160
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†	3	160					4	210
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	2	27					1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium	1	13						
Zygomycetes								
Background debris (1-4+)††	3+		3+		3+		3+	
Hyphal fragments/m3	27		< 13		< 13		13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		4,200		13		53		400

Comments:

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

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for sample volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1Date of Sampling: 11-25-2015
Date of Receipt: 11-25-2015
Date of Report: 11-27-2015**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21511001-1TM24	21511001-1TM25	21511001-1TM26	21511001-1TM27				
Comments (see below)	None	None	None	None				
Lab ID-Version‡:	6743947-1	6743948-1	6743949-1	6743950-1				
Analysis Date:	11/27/2015	11/27/2015	11/27/2015	11/27/2015				
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores			2	110			1	53
Basidiospores	1	53	2	110	1	53	2	110
Chaetomium	1	13						
Cladosporium					1	53		
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown	1	13	1	13				
Other colorless								
Penicillium/Aspergillus types†							2	110
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	1	13	2	27	1	13	2	27
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		3+		2+		2+	
Hyphal fragments/m3	27		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		93		250		120		290

Comments:

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

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1

Date of Sampling: 11-25-2015
Date of Receipt: 11-25-2015
Date of Report: 11-27-2015

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21511001-1TM20OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: November in California† (n‡=16365)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	120	13	13	27	67	120	56	13	13	27	63	100	53
Bipolaris/Drechslera group	-	8	13	13	27	53	15	7	13	13	27	50	12
Chaetomium	-	10	13	13	33	53	19	8	13	13	27	50	19
Cladosporium	750	160	360	1,000	3,100	5,900	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	27	53	9	7	13	13	27	53	6
Nigrospora	-	8	13	13	40	67	14	7	13	13	27	53	9
Other brown	-	13	13	13	40	53	34	13	13	13	40	53	34
Penicillium/Aspergillus types	160	53	110	320	850	1,500	89	53	100	210	610	1,000	84
Stachybotrys	-	11	13	13	40	67	5	7	13	13	33	67	4
Torula	-	10	13	13	40	67	9	8	13	13	40	67	11
Ulocladium	13	10	13	13	27	53	14	8	13	13	27	40	10
Seldom found growing indoors**													
Ascospores	850	20	53	120	530	1,100	71	25	53	110	370	700	71
Basidiospores	2,300	53	110	430	2,500	6,100	95	53	80	270	1,000	2,400	93
Rusts	-	13	13	13	53	93	27	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	27	13	13	40	110	190	70	13	13	40	110	210	68
§ TOTAL SPORES/m3	4,200												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-25-2015
 Date of Receipt: 11-25-2015
 Date of Report: 11-27-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21511001-1TM20OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				120	7 - 40 - 590	45
Ascospores				850	13 - 210 - 6,100	76
Basidiospores				2,300	13 - 430 - 23,000	92
Cladosporium				750	27 - 480 - 10,000	90
Penicillium/Aspergillus types				160	13 - 170 - 2,600	68
Smuts, Periconia, Myxomycetes				27	7 - 53 - 940	64
Ulocladium				13	7 - 13 - 110	4
Total				4,200		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21511001-1TM21

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 6.1473 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.4375 Critical value: 0.6786 Outside Similar: No	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Cladosporium				13
	Total				13

Location: 21511001-1TM22

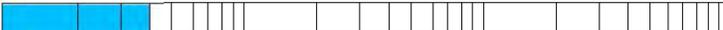
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 6 Result: 6.1473 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.6875 Critical value: 0.6786 Outside Similar: Yes	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				53
	Total				53

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
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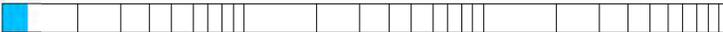
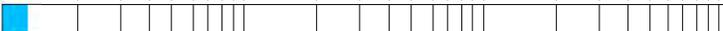
Date of Sampling: 11-25-2015
 Date of Receipt: 11-25-2015
 Date of Report: 11-27-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21511001-1TM23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 9%	dF: 6 Result: 6.1473 Critical value: 12.5916 Inside Similar: Yes	Result: 0.7273	dF: 7 Result: -0.0804 Critical value: 0.6786 Outside Similar: No	Score: 131 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					160
Penicillium/Aspergillus types					210
Smuts, Periconia, Myxomycetes					13
Total					400

Location: 21511001-1TM24

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 6 Result: 6.1473 Critical value: 12.5916 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: -0.0292 Critical value: 0.5833 Outside Similar: No	Score: 121 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Chaetomium					13
Other brown					13
Smuts, Periconia, Myxomycetes					13
Total					93

Client: Hygiene Technologies International, Inc.
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 Re: 21511001-1

Date of Sampling: 11-25-2015
 Date of Receipt: 11-25-2015
 Date of Report: 11-27-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21511001-1TM25

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: 6 Result: 6.1473 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: 0.4464 Critical value: 0.6190 Outside Similar: No	Score: 110 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					110
Basidiospores					110
Other brown					13
Smuts, Periconia, Myxomycetes					27
Total					250

Location: 21511001-1TM26

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 6 Result: 6.1473 Critical value: 12.5916 Inside Similar: Yes	Result: 0.6000	dF: 7 Result: 0.4911 Critical value: 0.6786 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
Total					120

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 Re: 21511001-1

Date of Sampling: 11-25-2015
 Date of Receipt: 11-25-2015
 Date of Report: 11-27-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21511001-1TM27

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 7%	dF: 6 Result: 6.1473 Critical value: 12.5916 Inside Similar: Yes	Result: 0.7273	dF: 7 Result: 0.5982 Critical value: 0.6786 Outside Similar: No	Score: 116 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					110
Penicillium/Aspergillus types					110
Smuts, Periconia, Myxomycetes					27
Total					290

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-25-2015
 Date of Receipt: 11-25-2015
 Date of Report: 11-27-2015

MoldSCORE™: Spore Trap Report

Location: 21511001-1TM22

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13	100		
Bipolaris/Drechslera group					ND	< 13	100		
Chaetomium					ND	< 13	100		
Cladosporium					ND	< 13	100		
Curvularia					ND	< 13	100		
Nigrospora					ND	< 13	100		
Penicillium/Aspergillus types†					ND	< 13	100		
Stachybotrys					ND	< 13	100		
Torula					ND	< 13	100		
Seldom found growing indoors**									
Ascospores					ND	< 13	100		
Basidiospores	█				1	53	103		
Rusts					ND	< 13	100		
Smuts, Periconia, Myxomycetes					ND	< 13	100		
Total						53	Final MoldSCORE 103		

Location: 21511001-1TM23

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria	█				1	13	101		
Bipolaris/Drechslera group					ND	< 13	100		
Chaetomium					ND	< 13	100		
Cladosporium	█				3	160	106		
Curvularia					ND	< 13	100		
Nigrospora					ND	< 13	100		
Penicillium/Aspergillus types†	█				4	210	131		
Stachybotrys					ND	< 13	100		
Torula					ND	< 13	100		
Seldom found growing indoors**									
Ascospores					ND	< 13	100		
Basidiospores					ND	< 13	100		
Rusts					ND	< 13	100		
Smuts, Periconia, Myxomycetes	█				1	13	102		
Total						400	Final MoldSCORE 131		

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21511001-1

Date of Sampling: 11-25-2015
 Date of Receipt: 11-25-2015
 Date of Report: 11-27-2015

MoldSCORE™: Spore Trap Report

Location: 21511001-1TM24

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium	█				1	13			121
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Other brown	█				1	13			105
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores	█				1	53			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes	█				1	13			102
Total						93			Final MoldSCORE 121

Location: 21511001-1TM25

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Other brown	█				1	13			105
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores	█				2	110			123
Basidiospores	█				2	110			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes	█				2	27			105
Total						253			Final MoldSCORE 110

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 Date of Report: 11-27-2015

MoldSCORE™: Spore Trap Report

Location: 21511001-1TM26

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium	█				1	53			102
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores	█				1	53			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes	█				1	13			102
Total						120			Final MoldSCORE 102

Location: 21511001-1TM27

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†	█				2	110			116
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores	█				1	53			100
Basidiospores	█				2	110			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes	█				2	27			105
Total						293			Final MoldSCORE 116

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21511001-1

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Date of Report: 11-27-2015

MoldSCORE™: Spore Trap Report

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

HYGIENE TECHNOLOGIES INTERNAT



3625 DEL AMO BOULEVARD, SUITE 180, TORRANCE, CA 90503 • (310) 370-8370 • FAX (310) 001460639

Request For Analysis

Project Number/Purchase Order: 21511001-1

Date Submitted: 11-25-15

Project Contact: L. Sandhu/K.Hsi

Turnaround Required: Normal

Lab Destination: EMLAB P & K

Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21511001-1TM20OUT	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21511001-1TM21	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21511001-1TM22	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21511001-1TM23	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21511001-1TM24	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21511001-1TM25	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21511001-1TM26	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21511001-1TM27	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)

Special Instructions: Random Sampling (Round 4)

1. Sampled by: L. Sandhu on 11-25-15 @ 1047 hrs

Received by: L. W. [Signature]

2. Relinquished by: L. Sandhu on 11-25-15 @ 1315 hrs

Received by: _____

3. Relinquished by: _____

Received by: _____

Please include signature, date, and time

Lab Use Only:

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