



HYGIENETECH

Hygiene Technologies International, Inc.

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October 19, 2014

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

Document No. 21409001.1

Attention: David Gau

Regarding: Limited Fungal Growth Exposure Assessment Surveys
September 2014 Random Sampling

Dear Mr. Gau:

On September 4, 12, 18, and 29, 2014, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted limited fungal growth exposure assessment surveys involving 22 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 21409001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Bipolaris/Drechslera* group, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Epicoccum*, *Nigrospora*, other brown rusts, smuts, *Stemphylium*, and/or *Torula*. 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*, ascospores, basidiospores, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Epicoccum*, other brown, rusts, smuts, and/or smuts. The distribution of fungal spore types detected in the surveyed areas was 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", followed by a 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 21409001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
SEPTEMBER 4, 12, 18, AND 29, 2014

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

SAMPLE NUMBER	21409001-1 TM01OUT	21409001-1 TM02	21409001-1 TM03	21409001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet west of building; approximately five feet above ground/Normal outdoor activities	4 th Floor; Column K17 area; Cubicle 76; southeastern corner; approximately five feet above floor/Normal office activities	8 th Floor; Column M22 area, Cubicle 176 entry area; approximately five feet above floor/Normal office activities	14 th Floor; Column K20 area; about five feet east of Column K20; approximately five feet above floor/Normal office activities
DATE	09/04/14	09/04/14	09/04/14	09/04/14
START/STOP	15:07:00/15:12:00	15:18:00/15:23:00	15:26:00/15:31:00	15:38:00/15:43:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	120			13
Ascospores	210			
Basidiospores	590			
Bipolaris/Drechslera group	13			
Botrytis				
Chaetomium	110			
Cladosporium	5,900			
Curvularia				
Epicoccum	27			
Fusarium				
Nigrospora	190			
Oidium				
Other brown	27			
Other colorless				
Penicillium/Aspergillus types	53			
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	280		40	13
Stachybotrys				
Stemphylium				
Torula	40			
Ulocladium				
Hyphal fragments	67	<13	<13	<13
Background debris*	3+	2+	2+	2+
TOTAL**	7,500	<13	40	27

*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
SEPTEMBER 4, 12, 18, AND 29, 2014

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

SAMPLE NUMBER	21409001-1 TM05	21409001-1 TM06	21409001-1 TM07OUT	21409001-1 TM08
SAMPLING LOCATION/ACTIVITIES	18 th Floor; Elevator Lobby; approximately five feet above floor/Normal office activities	20 th Floor; Column K22 area; about two feet east of Column K18 approximately five feet above floor/Normal office activities	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities	3 rd Floor; Room 308; about center; approximately five feet above floor/Normal office activities
DATE	09/04/14	09/04/14	09/12/14	09/12/14
START/STOP	15:46:00/15:51:00	15:55:00/16:00:00	10:45:00/10:50:00	10:54:00/10:59:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			190	
Ascospores			160	
Basidiospores			480	
Bipolaris/Drechslera group			13	
Botrytis				
Chaetomium				
Cladosporium	53		1,200	
Curvularia				
Epicoccum			13	
Fusarium				
Nigrospora			27	
Oidium				
Other brown				
Penicillium/Aspergillus types			690	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		13	550	
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	13	120	<13
Background debris*	2+	1+	3+	1+
TOTAL **	53	13	3,300	<13

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

SAMPLE NUMBER	21409001-1 TM09	21409001-1 TM10	21409001-1 TM11	21409001-1 TM12
SAMPLING LOCATION/ACTIVITIES	6 th Floor; Elevator Lobby; approximately five feet above floor/Normal office activities	9 th Floor; Column K23 area; Cubicle 78; entry area; approximately five feet above floor/Normal office activities	15 th Floor; Column K20 area; about three feet northwest of Column K20; approximately five feet above floor/Normal office activities	19 th Floor; Column J22; Cubicle 13; entry area; approximately five feet above floor/Normal office activities
DATE	09/12/14	09/12/14	09/12/14	09/12/14
START/STOP	11:02:00/11:07:00	11:10:00/11:15:00	11:20:00/11:25:00	11:28:00/11:33:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		13	13	
Arthrinium				
Ascospores				
Basidiospores	53			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	160	160		53
Curvularia				
Epicoccum		13		
Fusarium				
Nigrospora				
Oidium				
Other colorless				
Penicillium/Aspergillus types	13		110	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	80	27	40	13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	13	<13
Background debris*	2+	2+	2+	1+
TOTAL**	310	210	160	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+.

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

SAMPLE NUMBER	21409001-1 TM13OUT	21409001-1 TM14	21409001-1 TM15	21409001-1 TM16
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 10 feet south of building; approximately five feet above floor/Normal outdoor activities	2 nd Floor; Break Room 203; about center; approximately five feet above floor/Normal office activities	5 th Floor; Column O22 area; about three feet southeast of Column O22; approximately five feet above floor/Normal office activities	7 th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities
DATE	09/19/14	09/19/14	09/19/14	09/19/14
START/STOP	14:59:00/15:04:00	15:11:00/15:16:00	15:23:00/15:28:00	15:33:00/15:38:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13			
Ascospores	640		160	
Basidiospores	960			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	1.500		53	
Curvularia				
Epicoccum	13			
Nigrospora				
Oidium				
Other brown				13
Other colorless				
Penicillium/Aspergillus types	160			
Pithomyces				
Rusts	27			
Smuts (Periconia, Myxomycetes)	130			
Stachybotrys				
Stemphylium				
Torula	13			
Ulocladium				
Zygomycetes				
Hyphal fragments	27	13	<13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	3,500	<13	210	13

*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	21409001-1 TM17	21409001-1 TM18	21409001-1 TM19	21409001-1 TM20OUT
SAMPLING LOCATION/ACTIVITIES	16 th Floor; Column N21 area; about seven feet east of Column N21; approximately five feet above floor/Normal office activities	17 th Floor; Men's Restroom; about center; approximately five feet above floor/Normal office activities	22 nd Floor; Column K22 area; Cubicle 71; about center; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities
DATE	09/25/14	09/25/14	09/25/14	09/29/14
START/STOP	15:42:00/15:47:00	15:49:00/15:54:00	15:58:00/16:03:00	10:23:00/10:28:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		13	13	27
Ascospores				320
Basidiospores				1,000
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				40
Cladosporium				9,700
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				67
Oidium				
Other brown		13		
Penicillium/Aspergillus types				1,100
Pithomyces				
Rusts		13		
Smuts (Periconia, Myxomycetes)				80
Stemphylium				13
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	<13	27
Background debris*	2+	2+	2+	1+
TOTAL**	<13	40	13	12,000

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

SAMPLE NUMBER	21409001-1 TM21	21409001-1 TM22	21409001-1 TM23	21409001-1 TM24
SAMPLING LOCATION/ACTIVITIES	1 st Floor; hallway adjacent to Room 126; about 15 feet north of Board Room 121 entry door; approximately five feet above floor/Sampling activities only	10 th Floor; Column J18 area; about three feet northwest of Column J18; approximately five feet above floor/Sampling activities only	11 th Floor; Column N20 area; about 10 feet southwest of Column N20; approximately five feet above floor/Normal office activities	21 st Floor; Break Room 2113; about center; approximately feet above floor/Normal office activities
DATE	09/29/14	09/29/14	09/29/14	09/29/14
START/STOP	10:30:00/10:35:00	10:38:00/10:43:00	10:47:00/10:52:00	10:55:00/11:00:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	40			
Ascospores	53			
Basidiospores				53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53	53	53
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts		13		
Smuts (Periconia, Myxomycetes)	27			
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	53	<13	13	<13
Background debris*	1+	2+	1+	2+
TOTAL **	120	67	53	110

*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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SAMPLE NUMBER	21409001-1 TM25	21409001-1 TM26		
SAMPLING LOCATION/ACTIVITIES	23 rd Floor; Room 2337; Reception Area; about center; approximately five feet above floor/Normal office activities	24 th Floor; southwest corridor area adjacent to Room 2421 entry door; approximately five feet above floor/Normal office activities	This column intentionally left blank	This column intentionally left blank
DATE	09/29/14	09/29/14		
START/STOP	11:03:00/11:08:00	11:11:00/11:16:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Helicoma				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts	13			
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	13		
Background debris*	1+	1+		
TOTAL **	13	<13		

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**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.



Report for:

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

Regarding: Project: 21409001-1
EML ID: 1256773

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 09-08-2014

Service SOPs: Spore trap analysis (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: 21409001-1Date of Sampling: 09-04-2014
Date of Receipt: 09-05-2014
Date of Report: 09-08-2014**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21409001-1 TM01OUT		21409001-1 TM02		21409001-1 TM03	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5718059-1		5718060-1		5718061-1	
Analysis Date:	09/08/2014		09/08/2014		09/08/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	9	120				
Ascospores	4	210				
Basidiospores	11	590				
Bipolaris/Drechslera group	1	13				
Chaetomium	8	110				
Cladosporium	110	5,900				
Epicoccum	2	27				
Fusarium						
Myrothecium						
Nigrospora	14	190				
Other brown	2	27				
Other colorless						
Penicillium/Aspergillus types†	1	53				
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	21	280			3	40
Stachybotrys						
Stemphylium						
Torula	3	40				
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		2+		2+	
Hyphal fragments/m3	67		< 13		< 13	
Pollen/m3	40		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		7,500		< 13		40

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: 21409001-1

Date of Sampling: 09-04-2014
 Date of Receipt: 09-05-2014
 Date of Report: 09-08-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21409001-1 TM04		21409001-1 TM05		21409001-1 TM06	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5718062-1		5718063-1		5718064-1	
Analysis Date:	09/08/2014		09/08/2014		09/08/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13				
Ascospores						
Basidiospores						
Bipolaris/Drechslera group						
Chaetomium						
Cladosporium			1	53		
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	1	13			1	13
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		1+	
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		27		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.

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21409001-1

Date of Sampling: 09-04-2014
Date of Receipt: 09-05-2014
Date of Report: 09-08-2014

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21409001-1 TM01OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: September in California† (n‡=16246)						Typical Outdoor Data for: The entire year in California† (n‡=200698)					
		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	53	93	59	13	13	27	67	110	53
Bipolaris/Drechslera group	13	7	13	13	27	53	18	7	13	13	27	40	12
Chaetomium	110	8	13	13	27	53	26	8	13	13	27	47	19
Cladosporium	5,900	160	320	800	2,100	3,500	99	110	210	610	1,600	2,800	97
Curvularia	-	7	13	13	40	67	16	7	13	13	27	53	6
Epicoccum	27	7	13	13	33	53	21	8	13	13	33	53	19
Nigrospora	190	10	13	13	40	93	18	7	13	13	27	53	8
Other brown	27	13	13	13	40	53	37	13	13	13	40	53	34
Penicillium/Aspergillus types	53	53	110	270	750	1,200	90	53	100	210	590	1,000	84
Stachybotrys	-	7	13	13	27	53	5	7	13	13	33	67	4
Torula	40	8	13	13	40	67	13	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	210	13	38	89	210	370	68	25	53	110	360	690	71
Basidiospores	590	53	67	190	480	850	93	53	80	260	990	2,300	93
Rusts	-	10	13	13	40	80	26	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	280	13	13	40	120	200	73	13	13	40	110	210	68
§ TOTAL SPORES/m3	7,500												

†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: 21409001-1

Date of Sampling: 09-04-2014
 Date of Receipt: 09-05-2014
 Date of Report: 09-08-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21409001-1 TM01OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				120	7 - 33 - 600	45
Ascospores				210	13 - 210 - 5,900	76
Basidiospores				590	19 - 450 - 24,000	92
Bipolaris/Drechslera group				13	7 - 13 - 240	16
Chaetomium				110	7 - 13 - 160	9
Cladosporium				5,900	27 - 460 - 10,000	90
Epicoccum				27	7 - 20 - 330	24
Nigrospora				190	7 - 13 - 230	16
Other brown				27	7 - 13 - 130	23
Penicillium/Aspergillus types				53	13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes				280	7 - 53 - 920	63
Torula				40	7 - 13 - 170	9
Total				7,500		

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: 21409001-1 TM02

% 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: 1.5333 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			
None Detected		<100	1K	10K	>100K

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21409001-1

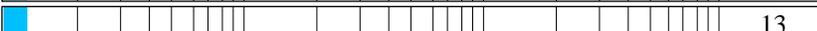
Date of Sampling: 09-04-2014
 Date of Receipt: 09-05-2014
 Date of Report: 09-08-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

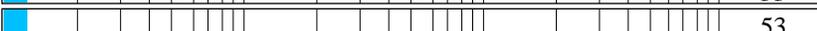
Location: 21409001-1 TM03

% 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: 1.5333 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1538	dF: 12 Result: 0.5332 Critical value: 0.4965 Outside Similar: Yes	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					40
Total					40

Location: 21409001-1 TM04

% 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: 1.5333 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2857	dF: 12 Result: 0.4598 Critical value: 0.4965 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Smuts, Periconia, Myxomycetes					13
Total					27

Location: 21409001-1 TM05

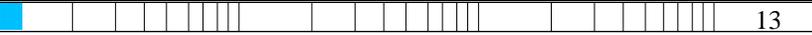
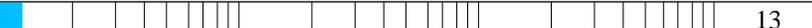
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 1.5333 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1538	dF: 12 Result: 0.6171 Critical value: 0.4965 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21409001-1

Date of Sampling: 09-04-2014
 Date of Receipt: 09-05-2014
 Date of Report: 09-08-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21409001-1 TM06

% 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: 1.5333 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1538	dF: 12 Result: 0.5332 Critical value: 0.4965 Outside Similar: Yes	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					13
Total					13

* 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: 21409001-1

Date of Sampling: 09-04-2014
 Date of Receipt: 09-05-2014
 Date of Report: 09-08-2014

MoldSCORE™: Spore Trap Report

Location: 21409001-1 TM03

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					3	40				108
Total						40				Final MoldSCORE 108

Location: 21409001-1 TM04

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				105
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					1	13				102
Total						27				Final MoldSCORE 108

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21409001-1

Date of Sampling: 09-04-2014
 Date of Receipt: 09-05-2014
 Date of Report: 09-08-2014

MoldSCORE™: Spore Trap Report

Location: 21409001-1 TM05

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	█			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					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						53				
							Final MoldSCORE			101

Location: 21409001-1 TM06

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	█				1	13	█			103
Total						13				
							Final MoldSCORE			103

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21409001-1

Date of Sampling: 09-04-2014
Date of Receipt: 09-05-2014
Date of Report: 09-08-2014

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: 21409001-1
EML ID: 1260682

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 09-15-2014

Service SOPs: Spore trap analysis (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: 21409001-1Date of Sampling: 09-12-2014
Date of Receipt: 09-12-2014
Date of Report: 09-15-2014**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21409001-1 TM07 OUT		21409001-1 TM08		21409001-1 TM09	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5735969-1		5735970-1		5735971-1	
Analysis Date:	09/15/2014		09/15/2014		09/15/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	14	190				
Ascospores	3	160				
Basidiospores	9	480			1	53
Bipolaris/Drechslera group	1	13				
Chaetomium						
Cladosporium	22	1,200			3	160
Curvularia						
Epicoccum	1	13				
Fusarium						
Myrothecium						
Nigrospora	2	27				
Other colorless						
Penicillium/Aspergillus types†	13	690				
Pithomyces					1	13
Rusts						
Smuts, Periconia, Myxomycetes	41	550			6	80
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		1+		2+	
Hyphal fragments/m3	120		< 13		< 13	
Pollen/m3	40		< 13		13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		3,300		< 13		310

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: 21409001-1Date of Sampling: 09-12-2014
Date of Receipt: 09-12-2014
Date of Report: 09-15-2014**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21409001-1 TM10		21409001-1 TM11		21409001-1 TM12	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5735972-1		5735973-1		5735974-1	
Analysis Date:	09/15/2014		09/15/2014		09/15/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13	1	13		
Ascospores						
Basidiospores						
Bipolaris/Drechslera group						
Chaetomium						
Cladosporium	3	160			1	53
Curvularia						
Epicoccum	1	13				
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†			2	110		
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	2	27	3	40	1	13
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		1+	
Hyphal fragments/m3	< 13		13		< 13	
Pollen/m3	27		< 13		< 13	
Skin cells (1-4+)	1+		1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		210		160		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.

†† 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: 21409001-1

Date of Sampling: 09-12-2014
Date of Receipt: 09-12-2014
Date of Report: 09-15-2014

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21409001-1 TM07 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: September in California† (n‡=16246)						Typical Outdoor Data for: The entire year in California† (n‡=200698)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	190	13	13	27	53	93	59	13	13	27	67	110	53
Bipolaris/Drechslera group	13	7	13	13	27	53	18	7	13	13	27	40	12
Chaetomium	-	8	13	13	27	53	26	8	13	13	27	47	19
Cladosporium	1,200	160	320	800	2,100	3,500	99	110	210	610	1,600	2,800	97
Curvularia	-	7	13	13	40	67	16	7	13	13	27	53	6
Epicoccum	13	7	13	13	33	53	21	8	13	13	33	53	19
Nigrospora	27	10	13	13	40	93	18	7	13	13	27	53	8
Penicillium/Aspergillus types	690	53	110	270	750	1,200	90	53	100	210	590	1,000	84
Pithomyces	-	7	13	13	27	53	7	7	13	13	27	53	4
Stachybotrys	-	7	13	13	27	53	5	7	13	13	33	67	4
Torula	-	8	13	13	40	67	13	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	160	13	38	89	210	370	68	25	53	110	360	690	71
Basidiospores	480	53	67	190	480	850	93	53	80	260	990	2,300	93
Rusts	-	10	13	13	40	80	26	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	550	13	13	40	120	200	73	13	13	40	110	210	68
§ TOTAL SPORES/m3	3,300												

†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: 21409001-1

Date of Sampling: 09-12-2014
 Date of Receipt: 09-12-2014
 Date of Report: 09-15-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21409001-1 TM07 OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria					190	7 - 33 - 610 45
Ascospores					160	13 - 210 - 5,900 76
Basidiospores					480	19 - 460 - 24,000 92
Bipolaris/Drechslera group					13	7 - 13 - 240 16
Cladosporium					1,200	27 - 460 - 10,000 90
Epicoccum					13	7 - 22 - 330 24
Nigrospora					27	7 - 13 - 230 16
Penicillium/Aspergillus types					690	13 - 170 - 2,700 68
Smuts, Periconia, Myxomycetes					550	7 - 53 - 920 63
Total					3,300	

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: 21409001-1 TM08

% 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: 5.8857 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: 21409001-1

Date of Sampling: 09-12-2014
 Date of Receipt: 09-12-2014
 Date of Report: 09-15-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21409001-1 TM09

% 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: 4 Result: 5.8857 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.5212 Critical value: 0.5515 Outside Similar: No	Score: 111 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					160
Pithomyces					13
Smuts, Periconia, Myxomycetes					80
Total					310

Location: 21409001-1 TM10

% 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: 4 Result: 5.8857 Critical value: 9.4877 Inside Similar: Yes	Result: 0.6154	dF: 9 Result: 0.4542 Critical value: 0.5833 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					160
Epicoccum					13
Smuts, Periconia, Myxomycetes					27
Total					210

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21409001-1

Date of Sampling: 09-12-2014
 Date of Receipt: 09-12-2014
 Date of Report: 09-15-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21409001-1 TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 4%	dF: 4 Result: 5.8857 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5000	dF: 9 Result: 0.5750 Critical value: 0.5833 Outside Similar: No	Score: 112 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Penicillium/Aspergillus types					110
Smuts, Periconia, Myxomycetes					40
Total					160

Location: 21409001-1 TM12

% 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: 5.8857 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.7042 Critical value: 0.5833 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
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.

** 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: 21409001-1

Date of Sampling: 09-12-2014
Date of Receipt: 09-12-2014
Date of Report: 09-15-2014

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: 21409001-1

Date of Sampling: 09-12-2014
 Date of Receipt: 09-12-2014
 Date of Report: 09-15-2014

MoldSCORE™: Spore Trap Report

Location: 21409001-1 TM09

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	█				3	160				103
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	█				1	53				101
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes	█				6	80				106
Total						307				Final MoldSCORE 111

Location: 21409001-1 TM10

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				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	█				3	160				105
Curvularia					ND	< 13				100
Epicoccum	█				1	13				105
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	█				2	27				100
Total						213				Final MoldSCORE 105

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21409001-1

Date of Sampling: 09-12-2014
 Date of Receipt: 09-12-2014
 Date of Report: 09-15-2014

MoldSCORE™: Spore Trap Report

Location: 21409001-1 TM11

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					ND	< 13				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					2	110				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores					ND	< 13				
Basidiospores					ND	< 13				
Rusts					ND	< 13				
Smuts, Periconia, Myxomycetes					3	40				
Total						160	Final MoldSCORE 112			

Location: 21409001-1 TM12

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				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					1	53				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					ND	< 13				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores					ND	< 13				
Basidiospores					ND	< 13				
Rusts					ND	< 13				
Smuts, Periconia, Myxomycetes					1	13				
Total						67	Final MoldSCORE 102			

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21409001-1

Date of Sampling: 09-12-2014
Date of Receipt: 09-12-2014
Date of Report: 09-15-2014

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: 21409001-1
EML ID: 1264341

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 09-19-2014

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: 21409001-1

Date of Sampling: 09-18-2014
 Date of Receipt: 09-19-2014
 Date of Report: 09-22-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21409001-1 TM13OUT		21409001-1 TM14		21409001-1 TM15		21409001-1 TM16	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	5753345-1		5753346-1		5753347-1		5753348-1	
Analysis Date:	09/19/2014		09/19/2014		09/19/2014		09/19/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13						
Ascospores	12	640			3	160		
Basidiospores	18	960						
Chaetomium								
Cladosporium	28	1,500			1	53		
Curvularia								
Epicoccum	1	13						
Fusarium								
Myrothecium								
Nigrospora								
Other brown							1	13
Other colorless								
Penicillium/Aspergillus types†	3	160						
Pithomyces								
Rusts	2	27						
Smuts, Periconia, Myxomycetes	10	130						
Stachybotrys								
Stemphylium								
Torula	1	13						
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	27		13		< 13		< 13	
Pollen/m3	40		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		3,500		< 13		210		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: 21409001-1Date of Sampling: 09-18-2014
Date of Receipt: 09-19-2014
Date of Report: 09-22-2014**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21409001-1 TM17		21409001-1 TM18		21409001-1 TM19	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5753349-1		5753350-1		5753351-1	
Analysis Date:	09/19/2014		09/19/2014		09/19/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13	1	13
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown			1	13		
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts			1	13		
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		< 13		40		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.

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21409001-1

Date of Sampling: 09-18-2014
Date of Receipt: 09-19-2014
Date of Report: 09-22-2014

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21409001-1 TM13OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: September in California† (n‡=16246)						Typical Outdoor Data for: The entire year in California† (n‡=200698)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	13	13	13	27	53	93	59	13	13	27	67	110	53
Bipolaris/Drechslera group	-	7	13	13	27	53	18	7	13	13	27	40	12
Chaetomium	-	8	13	13	27	53	26	8	13	13	27	47	19
Cladosporium	1,500	160	320	800	2,100	3,500	99	110	210	610	1,600	2,800	97
Curvularia	-	7	13	13	40	67	16	7	13	13	27	53	6
Epicoccum	13	7	13	13	33	53	21	8	13	13	33	53	19
Nigrospora	-	10	13	13	40	93	18	7	13	13	27	53	8
Other brown	-	13	13	13	40	53	37	13	13	13	40	53	34
Penicillium/Aspergillus types	160	53	110	270	750	1,200	90	53	100	210	590	1,000	84
Stachybotrys	-	7	13	13	27	53	5	7	13	13	33	67	4
Torula	13	8	13	13	40	67	13	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	640	13	38	89	210	370	68	25	53	110	360	690	71
Basidiospores	960	53	67	190	480	850	93	53	80	260	990	2,300	93
Rusts	27	10	13	13	40	80	26	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	130	13	13	40	120	200	73	13	13	40	110	210	68
§ TOTAL SPORES/m3	3,500												

†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.

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** 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: 21409001-1

Date of Sampling: 09-18-2014
 Date of Receipt: 09-19-2014
 Date of Report: 09-22-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21409001-1 TM13OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				13	7 - 33 - 610	45
Ascospores				640	13 - 210 - 5,900	76
Basidiospores				960	19 - 460 - 24,000	92
Cladosporium				1,500	27 - 460 - 10,000	90
Epicoccum				13	7 - 22 - 330	24
Penicillium/Aspergillus types				160	13 - 170 - 2,700	68
Rusts				27	7 - 20 - 360	20
Smuts, Periconia, Myxomycetes				130	7 - 53 - 920	63
Torula				13	7 - 13 - 170	9
Total				3,500		

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: 21409001-1 TM14

% 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: 3.5143 Critical value: 11.0705 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			
None Detected		<100	1K	10K	>100K
					< 13

Location: 21409001-1 TM15

% 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: 5 Result: 3.5143 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.6833 Critical value: 0.5833 Outside Similar: Yes	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					160
Cladosporium					53
Total					210

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21409001-1

Date of Sampling: 09-18-2014
 Date of Receipt: 09-19-2014
 Date of Report: 09-22-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21409001-1 TM16

% 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: 3.5143 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: 10 Result: 0.1030 Critical value: 0.5515 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Other brown					13
Total					13

Location: 21409001-1 TM17

% 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: 3.5143 Critical value: 11.0705 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: 21409001-1 TM18

% 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: 3.5143 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: -0.2606 Critical value: 0.5515 Outside Similar: No	Score: 110 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Other brown					13
Rusts					13
Total					40

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21409001-1

Date of Sampling: 09-18-2014
 Date of Receipt: 09-19-2014
 Date of Report: 09-22-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21409001-1 TM19

% 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: 3.5143 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.1417 Critical value: 0.5833 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Total					13

* 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: 21409001-1

Date of Sampling: 09-18-2014
 Date of Receipt: 09-19-2014
 Date of Report: 09-22-2014

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21409001-1 TM13OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					1	13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					28	1,500
Curvularia					ND	< 13
Epicoccum					1	13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					3	160
Stachybotrys					ND	< 13
Torula					1	13
Seldom found growing indoors**						
Ascospores					12	640
Basidiospores					18	960
Rusts					2	27
Smuts, Periconia, Myxomycetes					10	130
Total						3,453

Location: 21409001-1 TM14

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

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			100
			100
			100
			100
			100
			100
Seldom found growing indoors**			
			100
			100
			100
			100
Final MoldSCORE			100

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21409001-1

Date of Sampling: 09-18-2014
 Date of Receipt: 09-19-2014
 Date of Report: 09-22-2014

MoldSCORE™: Spore Trap Report

Location: 21409001-1 TM15

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	█			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	█				3	160	█	█		148
Basidiospores					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						213				Final MoldSCORE 100

Location: 21409001-1 TM16

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
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					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						13				Final MoldSCORE 105

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21409001-1

Date of Sampling: 09-18-2014
 Date of Receipt: 09-19-2014
 Date of Report: 09-22-2014

MoldSCORE™: Spore Trap Report

Location: 21409001-1 TM17

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: 21409001-1 TM18

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				105
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					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts	█				1	13				105
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						40				Final MoldSCORE 110

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21409001-1

Date of Sampling: 09-18-2014
 Date of Receipt: 09-19-2014
 Date of Report: 09-22-2014

MoldSCORE™: Spore Trap Report

Location: 21409001-1 TM19

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					ND	< 13	█			
Curvularia					ND	< 13	█			
Nigrospora					ND	< 13	█			
Penicillium/Aspergillus types†					ND	< 13	█			
Stachybotrys					ND	< 13	█			
Torula					ND	< 13	█			
Seldom found growing indoors**										
Ascospores					ND	< 13	█			
Basidiospores					ND	< 13	█			
Rusts					ND	< 13	█			
Smuts, Periconia, Myxomycetes					ND	< 13	█			
Total						13	Final MoldSCORE 105			

* 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: 21409001-1
EML ID: 1269094

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 09-30-2014

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: 21409001-1Date of Sampling: 09-29-2014
Date of Receipt: 09-29-2014
Date of Report: 09-30-2014**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21409001-1 TM20 OUT		21409001-1 TM21		21409001-1 TM22		21409001-1 TM23	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	5776275-1		5776276-1		5776277-1		5776278-1	
Analysis Date:	09/30/2014		09/30/2014		09/30/2014		09/30/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27	3	40				
Ascospores	6	320	1	53				
Basidiospores	19	1,000						
Chaetomium	3	40						
Cladosporium	181	9,700			1	53	1	53
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora	5	67						
Other colorless								
Penicillium/Aspergillus types†	20	1,100						
Pithomyces								
Rusts					1	13		
Smuts, Periconia, Myxomycetes	6	80	2	27				
Stachybotrys								
Stemphylium	1	13						
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		1+		2+		1+	
Hyphal fragments/m3	27		53		< 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		12,000		120		67		53

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: 21409001-1

Date of Sampling: 09-29-2014
 Date of Receipt: 09-29-2014
 Date of Report: 09-30-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21409001-1 TM24		21409001-1 TM25		21409001-1 TM26	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5776279-1		5776280-1		5776281-1	
Analysis Date:	09/30/2014		09/30/2014		09/30/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores	1	53				
Botrytis						
Chaetomium						
Cladosporium	1	53				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts			1	13		
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		1+		1+	
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		110		13		< 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: 21409001-1

Date of Sampling: 09-29-2014
Date of Receipt: 09-29-2014
Date of Report: 09-30-2014

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21409001-1 TM20 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: September in California† (n‡=16246)						Typical Outdoor Data for: The entire year in California† (n‡=200698)					
		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	53	93	59	13	13	27	67	110	53
Bipolaris/Drechslera group	-	7	13	13	27	53	18	7	13	13	27	40	12
Chaetomium	40	8	13	13	27	53	26	8	13	13	27	47	19
Cladosporium	9,700	160	320	800	2,100	3,500	99	110	210	610	1,600	2,800	97
Curvularia	-	7	13	13	40	67	16	7	13	13	27	53	6
Nigrospora	67	10	13	13	40	93	18	7	13	13	27	53	8
Penicillium/Aspergillus types	1,100	53	110	270	750	1,200	90	53	100	210	590	1,000	84
Stachybotrys	-	7	13	13	27	53	5	7	13	13	33	67	4
Stemphylium	13	7	13	13	27	40	10	7	13	13	27	40	9
Torula	-	8	13	13	40	67	13	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	320	13	38	89	210	370	68	25	53	110	360	690	71
Basidiospores	1,000	53	67	190	480	850	93	53	80	260	990	2,300	93
Rusts	-	10	13	13	40	80	26	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	80	13	13	40	120	200	73	13	13	40	110	210	68
§ TOTAL SPORES/m3	12,000												

†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: 21409001-1

Date of Sampling: 09-29-2014
 Date of Receipt: 09-29-2014
 Date of Report: 09-30-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21409001-1 TM20 OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				27	7 - 33 - 610	45
Ascospores				320	13 - 210 - 5,900	76
Basidiospores				1,000	19 - 460 - 24,000	92
Chaetomium				40	7 - 13 - 160	9
Cladosporium				9,700	27 - 460 - 10,000	90
Nigrospora				67	7 - 13 - 230	16
Penicillium/Aspergillus types				1,100	13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes				80	7 - 53 - 920	63
Stemphylium				13	7 - 13 - 89	3
Total				12,000		

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: 21409001-1 TM21

% 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: 0.5000	dF: 9 Result: 0.0125 Critical value: 0.5833 Outside Similar: No	Score: 121 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					40
Ascospores					53
Smuts, Periconia, Myxomycetes					27
Total					120

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21409001-1

Date of Sampling: 09-29-2014
 Date of Receipt: 09-29-2014
 Date of Report: 09-30-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21409001-1 TM22

% 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: 0.1818	dF: 10 Result: 0.3091 Critical value: 0.5515 Outside Similar: No	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Rusts					13
Total					67

Location: 21409001-1 TM23

% 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: 0.2000	dF: 9 Result: 0.6500 Critical value: 0.5833 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Location: 21409001-1 TM24

% 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: 0.3636	dF: 9 Result: 0.6875 Critical value: 0.5833 Outside Similar: Yes	Score: 105 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: 21409001-1Date of Sampling: 09-29-2014
Date of Receipt: 09-29-2014
Date of Report: 09-30-2014**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: 21409001-1

Date of Sampling: 09-29-2014
 Date of Receipt: 09-29-2014
 Date of Report: 09-30-2014

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21409001-1 TM20 OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					2	27
Bipolaris/Drechslera group					ND	< 13
Chaetomium					3	40
Cladosporium					181	9,700
Curvularia					ND	< 13
Nigrospora					5	67
Penicillium/Aspergillus types†					20	1,100
Stachybotrys					ND	< 13
Stemphylium					1	13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					6	320
Basidiospores					19	1,000
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					6	80
Total						12,280

Location: 21409001-1 TM21

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					3	40
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					ND	< 13
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					1	53
Basidiospores					ND	< 13
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					2	27
Total						120

MoldSCORE‡			
100	200	300	Score
			116
			100
			100
			100
			100
			100
			100
			100
			100
Seldom found growing indoors**			
			120
			100
			100
			105
Final MoldSCORE			121

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 Re: 21409001-1

Date of Sampling: 09-29-2014
 Date of Receipt: 09-29-2014
 Date of Report: 09-30-2014

MoldSCORE™: Spore Trap Report

Location: 21409001-1 TM22

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	█			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	█				1	13	█			105
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						67				
							Final MoldSCORE			100

Location: 21409001-1 TM23

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	█			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					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						53				
							Final MoldSCORE			101

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Date of Sampling: 09-29-2014
 Date of Receipt: 09-29-2014
 Date of Report: 09-30-2014

MoldSCORE™: Spore Trap Report

Location: 21409001-1 TM24

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				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				105
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						107				Final MoldSCORE 105

Location: 21409001-1 TM25

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					1	13				105
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						13				Final MoldSCORE 100

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21409001-1

Date of Sampling: 09-29-2014
 Date of Receipt: 09-29-2014
 Date of Report: 09-30-2014

MoldSCORE™: Spore Trap Report

Location: 21409001-1 TM26

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

* 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 TECH

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Request For Analysis

Project Number/Purchase Order: 21409001-1 Date Submitted: 9/19/14
 Project Contact: L. Sandhu/K. Hsi Turnaround Required: Normal
 Lab Destination: EM LAB PKC Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21409001-TM13006	75L	Air-o-cell	Spore Trap Analysis (Total Fungi)
21409001-TM14	75L	Air-o-cell	
21409001-TM15	75L	Air-o-cell	
21409001-TM16	75L	Air-o-cell	
21409001-TM17	75L	Air-o-cell	
21409001-TM18	75L	Air-o-cell	
21409001-TM19	75L	Air-o-cell	

Special Instructions: Random Sampling (R-3)

1. Sampled by: H Sandhu on 9/18/14 @ 1459 Received by: [Signature] 9/19/14 @ 1125
 2. Relinquished by: H Sandhu on 09/19/14 @ 1115 Received by: _____
 3. Relinquished by: _____ Received by: _____
 Please include signature, date, and time

Lab Use Only:

