



HYGIENETECH

Hygiene Technologies International, Inc.

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July 8, 2015

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

Document No. 21506001.1

Attention: Edna B. Murphy
Deputy Director Administration Department

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

Dear Ms. Murphy:

On June 9, 18, 22 and 30, 2015, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted limited fungal growth exposure assessment surveys involving 23 randomly selected areas located within the California State Board of Equalization (BOE) building. The findings of the surveys, along with the analytical data, conclusions, and recommendations when applicable, appear below.

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

As presented in Table 21506001-1, 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*, *Oidium*, other brown, rust, smuts, and/or *Stemphylium*, *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, *Curvularia*, *Oidium*, other brown, rusts, smuts, *Stemphylium*, and/or *Spegazzinia*. 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 K. Hsi', is written over 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 21506001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
JUNE 9, 18, 22, AND 30, 2015**

Page 1

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

SAMPLE NUMBER	21506001-1 TM01OUT	21506001-1 TM02	21506001-1 TM03	21506001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet west of building; approximately five feet above ground/Normal outdoor activities	1 st Floor; hallway adjacent to Room 126; about 10 feet north of Room 121 entry door; approximately five feet above floor/ Sampling activities only	4 th Floor; Mail/Storage Room 4B; about center; approximately five feet above floor/Normal office activities	8 th Floor; Mail/Storage Room 8B; about center; approximately five feet above floor/Normal office activities
DATE	06/09/15	06/09/15	06/09/15	06/09/15
START/STOP	09:54:00/09:59:00	10:02:00/10:07:00	10:11:00/10:16:00	10:20:00/10:25:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	200	13		
Ascospores				53
Basidiospores	430	110		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	40			
Cladosporium	11,000	750		
Curvularia				
Epicoccum				
Nigrospora				
Oidium	27			
Other brown	27	13		
Other colorless				
Penicillium/Aspergillus types	850	110		
Pithomyces				
Rusts	470	67		13
Smuts (Periconia, Myxomycetes)	1,400	150		13
Spegazzinia		13		
Stachybotrys				
Stemphylium	93			
Torula	40			
Ulocladium				
Hyphal fragments	450	53	13	<13
Background debris*	3+	2+	2+	2+
TOTAL**	15,000	1,200	<13	80

*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
JUNE 9, 18, 22, AND 30, 2015

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

SAMPLE NUMBER	21506001-1 TM05	21506001-1 TM06	21506001-1 TM07OUT	21506001-1 TM08
SAMPLING LOCATION/ACTIVITIES	11 th Floor; Column N20 area; about 15 feet north of Column N20; approximately five feet above floor/Normal office activities	15 th Floor; Column J18 area; Cubicle 131; about five feet south of entry area; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet south of the building; approximately five feet above ground/Normal outdoor activities	5 th Floor; Column J21 area; Cubicle 63 entry area; approximately five feet above floor/Normal office activities
DATE	06/09/15	06/09/15	06/18/15	06/18/15
START/STOP	10:29:00/10:34:00	10:38:00/10:43:00	09:11:00/09:16:00	09:25:00/09:30:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			67	
Ascospores			110	
Basidiospores			160	
Bipolaris/Drechslera group			13	
Botrytis				
Chaetomium				
Cladosporium	53		11,000	
Curvularia				
Epicoccum			13	
Fusarium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts		13	53	
Smuts (Periconia, Myxomycetes)	13	13	520	
Stachybotrys				
Stemphylium			13	
Torula			190	
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	13	<13	93	<13
Background debris*	2+	2+	2+	2+
TOTAL**	67	27	12,000	<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	21506001-1 TM09	21506001-1 TM10	21506001-1 TM11	21506001-1 TM12
SAMPLING LOCATION/ACTIVITIES	10 th Floor; northern corridor; adjacent to Northeastern Drinking Fountain; approximately five feet above floor/Normal office activities	15 ^h Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	18 th Floor; Column N18 area; Cubicle 128; approximately five feet above floor/Normal office activities	21 st Floor; Room 2108; about center; approximately five feet above floor/Normal office activities
DATE	06/18/15	06/18/15	06/18/15	06/18/15
START/STOP	09:33:00/09:38:00	09:44:00/09:49:00	09:53:00/09:58:00	10:04:00/10:09:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				13
Arthrinium				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	110	53		53
Curvularia				13
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				13
Penicillium/Aspergillus types				
Pithomyces				
Rusts	13	13	13	13
Smuts (Periconia, Myxomycetes)	27			67
Stachybotrys				
Stemphylium				13
Torula				
Ulocladium				
Hyphal fragments	<13	<13	13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	150	67	13	190

*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	21506001-1 TM13OUT	21506001-1 TM14	21506001-1 TM15	21506001-1 TM16
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet east of the building; approximately five feet above ground/Normal outdoor activities	3 rd Floor; Column M23 area; Cubicle 52; entry area; approximately five feet above floor/Normal office activities	6 th Floor; Room 605; about center; approximately five feet above floor/Normal office activities	9 th Floor; Column K17 area; Cubicle 9; about three feet east of entry area; approximately five feet above floor/Normal office activities
DATE	06/22/15	06/22/15	06/22/15	06/22/15
START/STOP	09:37:00/09:42:00	09:47:00/09:52:00	09:56:00/10:01:00	10:05:00/10:10:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	40	13	13	
Ascospores	53			
Basidiospores	210			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	53			
Cladosporium	5,700	53	53	
Curvularia				
Epicoccum				
Nigrospora				
Oidium	13			
Other brown				
Other colorless				
Penicillium/Aspergillus types	270			
Pithomyces				
Rusts	330	53	27	27
Smuts (Periconia, Myxomycetes)	1,700	27		120
Stachybotrys				
Stemphylium	40			
Torula	110			
Ulocladium				
Zygomycetes				
Hyphal fragments	230	<13	<13	13
Background debris*	2+	2+	2+	2+
TOTAL**	8.600	150	93	150

*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	21506001-1 TM17	21506001-1 TM18	21506001-1 TM19	21506001-1 TM20OUT
SAMPLING LOCATION/ACTIVITIES	14 th Floor; northern corridor; adjacent to northwestern drinking fountain; approximately five feet above floor/Normal office activities	19 th Floor; Room 1908; about three feet south of entry door; approximately five feet above floor/Normal office activities	24 th Floor; Room 2420; about center; approximately five feet above floor/Normal office activities	Outdoors; about 25 feet northeast of the main entrance; approximately five feet above ground/Normal outdoor activities
DATE	06/22/15	06/22/15	06/22/15	06/30/15
START/STOP	10:14:00/10:19:00	10:21:00/10:26:00	10:28:00/10:33:00	15:20:00/15:25:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	
Ascospores		53		
Basidiospores				53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	210	53	210	370
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				13
Oidium				13
Other brown				
Penicillium/Aspergillus types			430	160
Pithomyces				
Rusts	27			
Smuts (Periconia, Myxomycetes)	40		53	130
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	40	13	<13	13
Background debris*	2+	1+	2+	3+
TOTAL**	280	110	710	750

*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	21506001-1 TM21	21506001-1 TM22	21506001-1 TM23	21506001-1 TM24
SAMPLING LOCATION/ACTIVITIES	2 nd Floor; Column K18 area; about 20 feet northwest of Column K18; approximately five feet above floor/Normal office activities	7 th Floor; Elevator Lobby; about center; approximately feet above floor/Normal office activities	16 th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	17 th Floor; northern corridor; about center; approximately feet above floor/Normal office activities
DATE	06/30/15	06/30/15	06/30/15	06/30/15
START/STOP	15:28:00/15:33:00	15:35:00/15:40:00	15:43:00/15:48:00	15:50:00/15:55:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		110		53
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				53
Pithomyces				
Rusts				27
Smuts (Periconia, Myxomycetes)	13	27	27	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	13	130	27	130

*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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JUNE 9, 18, 22, AND 30, 2015**

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SAMPLE NUMBER	21506001-1 TM25	21506001-1 TM26	21506001-1 TM27	
SAMPLING LOCATION/ACTIVITIES	20 th Floor; Mail Room 20B; about center; approximately five feet above floor/ Normal office activities	22 nd Floor; Column N21 area; Cubicle 33; about center; approximately five feet above floor/Normal office activities	23 rd Floor; Room 2334; reception area; about center approximately five feet above floor/Normal office activities	This column intentionally left blank
DATE	06/30/15	06/30/15	06/30/15	
START/STOP	15:57:00/16:02:00	16:04:00/16:09:00	16:14:00/16:19:00	
SAMPLE TIME	5 minutes	5 minutes	5 minutes	
Alternaria				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium			13	
Cladosporium			110	
Curvularia				
Epicoccum				
Helicoma				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types	320			
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	13	
Background debris*	1+	1+	2+	
TOTAL **	320	<13	120	

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Report for:

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

Regarding: Project: 21506001-1
EML ID: 1376536

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 06-10-2015

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: 21506001-1

Date of Sampling: 06-09-2015
 Date of Receipt: 06-09-2015
 Date of Report: 06-10-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21506001-1TM01OUT		21506001-1TM02		21506001-1TM03	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6322194-1		6322195-1		6322196-1	
Analysis Date:	06/10/2015		06/10/2015		06/10/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	15	200	1	13		
Ascospores						
Basidiospores	8	430	2	110		
Chaetomium	3	40				
Cladosporium	214	11,000	14	750		
Fusarium						
Myrothecium						
Nigrospora						
Oidium	2	27				
Other brown	2	27	1	13		
Other colorless						
Penicillium/Aspergillus types†	16	850	2	110		
Pithomyces						
Rusts	35	470	5	67		
Smuts, Periconia, Myxomycetes	108	1,400	11	150		
Spegazzinia			1	13		
Stachybotrys						
Stemphylium	7	93				
Torula	3	40				
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		2+		2+	
Hyphal fragments/m3	450		53		13	
Pollen/m3	370		13		< 13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		15,000		1,200		< 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.

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 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

Date of Sampling: 06-09-2015
 Date of Receipt: 06-09-2015
 Date of Report: 06-10-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21506001-1TM04		21506001-1TM05		21506001-1TM06	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6322197-1		6322198-1		6322199-1	
Analysis Date:	06/10/2015		06/10/2015		06/10/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores	1	53				
Basidiospores						
Chaetomium						
Cladosporium			1	53		
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other brown						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts	1	13			1	13
Smuts, Periconia, Myxomycetes	1	13	1	13	1	13
Spegazzinia						
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		80		67		27

Comments:

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

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

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Re: 21506001-1

Date of Sampling: 06-09-2015
Date of Receipt: 06-09-2015
Date of Report: 06-10-2015

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21506001-1TM01OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: June in California† (n‡=17769)						Typical Outdoor Data for: The entire year in California† (n‡=214484)						
		spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*														
Alternaria	200	13	13	27	67	110	63	13	13	27	63	100	53	
Bipolaris/Drechslera group	-	7	13	13	27	40	12	7	13	13	27	50	12	
Chaetomium	40	7	13	13	27	40	24	8	13	13	27	50	19	
Cladosporium	11,000	110	210	590	1,400	2,100	98	110	210	610	1,700	2,800	97	
Curvularia	-	7	13	13	27	40	4	7	13	13	27	53	6	
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9	
Other brown	27	13	13	13	40	53	36	13	13	13	40	53	34	
Penicillium/Aspergillus types	850	53	53	190	470	750	82	53	100	210	610	1,000	84	
Stachybotrys	-	8	13	13	33	60	5	7	13	13	33	67	4	
Stemphylium	93	7	13	13	27	40	12	7	13	13	27	40	9	
Torula	40	10	13	13	40	67	18	8	13	13	40	67	11	
Seldom found growing indoors**														
Ascospores	-	13	40	93	240	430	70	25	53	110	370	700	71	
Basidiospores	430	40	53	160	480	910	90	53	80	270	1,000	2,400	93	
Oidium	27	13	13	20	50	80	28	13	13	13	47	75	19	
Rusts	470	13	13	27	53	93	38	13	13	13	53	80	26	
Smuts, Periconia, Myxomycetes	1,400	13	25	53	170	310	80	13	13	40	110	210	68	
Spiegazzinia	-	7	13	13	13	27	< 1	7	11	13	13	27	< 1	
§ TOTAL SPORES/m3	15,000													

†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: 21506001-1

Date of Sampling: 06-09-2015
 Date of Receipt: 06-09-2015
 Date of Report: 06-10-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21506001-1TM01OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				200	7 - 40 - 610	45
Ascospores				< 13	13 - 210 - 6,000	76
Basidiospores				430	13 - 430 - 24,000	92
Chaetomium				40	7 - 13 - 160	9
Cladosporium				11,000	27 - 480 - 10,000	90
Oidium				27	7 - 13 - 210	11
Other brown				27	7 - 13 - 130	24
Penicillium/Aspergillus types				850	13 - 170 - 2,700	68
Rusts				470	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes				1,400	7 - 53 - 920	64
Stemphylium				93	7 - 13 - 89	3
Torula				40	7 - 13 - 170	9
Total				15,000		

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: 21506001-1TM02

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 8%	dF: 4 Result: 14.3111 Critical value: 9.4877 Inside Similar: No	Result: 0.7368	dF: 12 Result: 0.7832 Critical value: 0.4965 Outside Similar: Yes	Score: 111 Result: Low

Species Detected	Spores/m3				
	<100	1K	10K	>100K	
Alternaria					13
Basidiospores					110
Cladosporium					750
Other brown					13
Penicillium/Aspergillus types					110
Rusts					67
Smuts, Periconia, Myxomycetes					150
Spegazzinia					13
Total					1,200

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

Date of Sampling: 06-09-2015
 Date of Receipt: 06-09-2015
 Date of Report: 06-10-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21506001-1TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 14.3111 Critical value: 9.4877 Inside Similar: No	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: 21506001-1TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 14.3111 Critical value: 9.4877 Inside Similar: No	Result: 0.2857	dF: 12 Result: 0.2150 Critical value: 0.4965 Outside Similar: No	Score: 101 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Ascospores		53		
Rusts		13		
Smuts, Periconia, Myxomycetes		13		
Total		80		

Location: 21506001-1TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 14.3111 Critical value: 9.4877 Inside Similar: No	Result: 0.3077	dF: 11 Result: 0.7318 Critical value: 0.5273 Outside Similar: Yes	Score: 101 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium		53		
Smuts, Periconia, Myxomycetes		13		
Total		67		

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

Date of Sampling: 06-09-2015
 Date of Receipt: 06-09-2015
 Date of Report: 06-10-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21506001-1TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 14.3111 Critical value: 9.4877 Inside Similar: No	Result: 0.3077	dF: 11 Result: 0.5795 Critical value: 0.5273 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Rusts					13
Smuts, Periconia, Myxomycetes					13
Total					27

* 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: 21506001-1

Date of Sampling: 06-09-2015
 Date of Receipt: 06-09-2015
 Date of Report: 06-10-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21506001-1TM01OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					15	200
Bipolaris/Drechslera group					ND	< 13
Chaetomium					3	40
Cladosporium					214	11,000
Curvularia					ND	< 13
Nigrospora					ND	< 13
Other brown					2	27
Penicillium/Aspergillus types†					16	850
Stachybotrys					ND	< 13
Stemphylium					7	93
Torula					3	40
Seldom found growing indoors**						
Ascospores					ND	< 13
Basidiospores					8	430
Oidium					2	27
Rusts					35	470
Smuts, Periconia, Myxomycetes					108	1,400
Total						15,027

Location: 21506001-1TM02

Fungi Identified	Indoor 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					14	750
Curvularia					ND	< 13
Nigrospora					ND	< 13
Other brown					1	13
Penicillium/Aspergillus types†					2	110
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					ND	< 13
Basidiospores					2	110
Rusts					5	67
Smuts, Periconia, Myxomycetes					11	150
Spegazzinia					1	13
Total						1,213

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			100
			100
			100
			104
			107
			100
			100
			100
			108
			112
			107
			105
Final MoldSCORE			112

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

Date of Sampling: 06-09-2015
 Date of Receipt: 06-09-2015
 Date of Report: 06-10-2015

MoldSCORE™: Spore Trap Report

Location: 21506001-1TM03

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

Location: 21506001-1TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					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	█				1	53	█	█		121
Basidiospores					ND	< 13	█			100
Rusts	█				1	13	█			104
Smuts, Periconia, Myxomycetes	█				1	13	█			101
Total						80				
							Final MoldSCORE	101		

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

Date of Sampling: 06-09-2015
 Date of Receipt: 06-09-2015
 Date of Report: 06-10-2015

MoldSCORE™: Spore Trap Report

Location: 21506001-1TM05

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					ND	< 13	█			100
Smuts, Periconia, Myxomycetes	█				1	13	█			101
Total						67	Final MoldSCORE 101			

Location: 21506001-1TM06

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	█				1	13	█			102
Total						27	Final MoldSCORE 102			

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21506001-1

Date of Sampling: 06-09-2015
Date of Receipt: 06-09-2015
Date of Report: 06-10-2015

MoldSCORE™: Spore Trap Report

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

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

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

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



Report for:

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

Regarding: Project: 21506001-1
EML ID: 1381236

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 06-19-2015

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: 21506001-1Date of Sampling: 06-18-2015
Date of Receipt: 06-18-2015
Date of Report: 06-19-2015**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21506001-1TM07OUT		21506001-1TM08		21506001-1TM09	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6346169-1		6346170-1		6346171-1	
Analysis Date:	06/19/2015		06/19/2015		06/19/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	5	67				
Ascospores	2	110				
Basidiospores	3	160				
Bipolaris/Drechslera group	1	13				
Chaetomium						
Cladosporium	200	11,000			2	110
Curvularia						
Epicoccum	1	13				
Fusarium						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts	4	53			1	13
Smuts, Periconia, Myxomycetes	39	520			2	27
Stachybotrys						
Stemphylium	1	13				
Torula	14	190				
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	93		< 13		< 13	
Pollen/m3	67		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		12,000		< 13		150

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: 21506001-1

Date of Sampling: 06-18-2015
 Date of Receipt: 06-18-2015
 Date of Report: 06-19-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21506001-1TM10		21506001-1TM11		21506001-1TM12	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6346172-1		6346173-1		6346174-1	
Analysis Date:	06/19/2015		06/19/2015		06/19/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13
Ascospores						
Basidiospores						
Bipolaris/Drechslera group						
Chaetomium						
Cladosporium	1	53			1	53
Curvularia					1	13
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown					1	13
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts	1	13	1	13	1	13
Smuts, Periconia, Myxomycetes					5	67
Stachybotrys						
Stemphylium					1	13
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		67		13		190

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: 21506001-1

Date of Sampling: 06-18-2015
Date of Receipt: 06-18-2015
Date of Report: 06-19-2015

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21506001-1TM07OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: June in California† (n‡=17769)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	67	13	13	27	67	110	63	13	13	27	63	100	53
Bipolaris/Drechslera group	13	7	13	13	27	40	12	7	13	13	27	50	12
Chaetomium	-	7	13	13	27	40	24	8	13	13	27	50	19
Cladosporium	11,000	110	210	590	1,400	2,100	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	27	40	4	7	13	13	27	53	6
Epicoccum	13	10	13	13	40	53	26	8	13	13	38	53	19
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Other brown	-	13	13	13	40	53	36	13	13	13	40	53	34
Penicillium/Aspergillus types	-	53	53	190	470	750	82	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	33	60	5	7	13	13	33	67	4
Stemphylium	13	7	13	13	27	40	12	7	13	13	27	40	9
Torula	190	10	13	13	40	67	18	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	110	13	40	93	240	430	70	25	53	110	370	700	71
Basidiospores	160	40	53	160	480	910	90	53	80	270	1,000	2,400	93
Rusts	53	13	13	27	53	93	38	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	520	13	25	53	170	310	80	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: 21506001-1

Date of Sampling: 06-18-2015
 Date of Receipt: 06-18-2015
 Date of Report: 06-19-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21506001-1TM07OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				67	7 - 40 - 600	45
Ascospores				110	13 - 210 - 6,100	76
Basidiospores				160	13 - 430 - 24,000	92
Bipolaris/Drechslera group				13	7 - 13 - 250	16
Cladosporium				11,000	27 - 480 - 10,000	90
Epicoccum				13	7 - 22 - 330	24
Penicillium/Aspergillus types				< 13	13 - 170 - 2,700	68
Rusts				53	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes				520	7 - 53 - 910	64
Stemphylium				13	7 - 13 - 89	3
Torula				190	7 - 13 - 170	9
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: 21506001-1TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 10.6000 Critical value: 9.4877 Inside Similar: No	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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

Date of Sampling: 06-18-2015
 Date of Receipt: 06-18-2015
 Date of Report: 06-19-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21506001-1TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 4 Result: 10.6000 Critical value: 9.4877 Inside Similar: No	Result: 0.4615	dF: 10 Result: 0.6485 Critical value: 0.5515 Outside Similar: Yes	Score: 104 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					110
Rusts					13
Smuts, Periconia, Myxomycetes					27
Total					150

Location: 21506001-1TM10

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 10.6000 Critical value: 9.4877 Inside Similar: No	Result: 0.3333	dF: 10 Result: 0.4848 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: 21506001-1TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 10.6000 Critical value: 9.4877 Inside Similar: No	Result: 0.1818	dF: 10 Result: 0.2848 Critical value: 0.5515 Outside Similar: No	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Rusts					13
Total					13

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

Date of Sampling: 06-18-2015
 Date of Receipt: 06-18-2015
 Date of Report: 06-19-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21506001-1TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 4 Result: 10.6000 Critical value: 9.4877 Inside Similar: No	Result: 0.5882	dF: 12 Result: 0.2325 Critical value: 0.4965 Outside Similar: No	Score: 130 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					53
Curvularia					13
Other brown					13
Rusts					13
Smuts, Periconia, Myxomycetes					67
Stemphylium					13
Total					190

* 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: 21506001-1

Date of Sampling: 06-18-2015
 Date of Receipt: 06-18-2015
 Date of Report: 06-19-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21506001-1TM07OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					5	67
Bipolaris/Drechslera group					1	13
Chaetomium					ND	< 13
Cladosporium					200	11,000
Curvularia					ND	< 13
Epicoccum					1	13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Stemphylium					1	13
Torula					14	190
Seldom found growing indoors**						
Ascospores					2	110
Basidiospores					3	160
Rusts					4	53
Smuts, Periconia, Myxomycetes					39	520
Total						11,800

Location: 21506001-1TM08

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‡			Score
100	200	300	
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
Final MoldSCORE			100

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

Date of Sampling: 06-18-2015
 Date of Receipt: 06-18-2015
 Date of Report: 06-19-2015

MoldSCORE™: Spore Trap Report

Location: 21506001-1TM09

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	█				2	110				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	█				2	27				104
Total						147				Final MoldSCORE 104

Location: 21506001-1TM10

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

Date of Sampling: 06-18-2015
 Date of Receipt: 06-18-2015
 Date of Report: 06-19-2015

MoldSCORE™: Spore Trap Report

Location: 21506001-1TM11

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				100
Final MoldSCORE										100

Location: 21506001-1TM12

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					1	53				100
Curvularia					1	13				105
Nigrospora					ND	< 13				100
Other brown					1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Stemphylium					1	13				105
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					1	13				105
Smuts, Periconia, Myxomycetes					5	67				112
Total						187				130
Final MoldSCORE										130

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21506001-1

Date of Sampling: 06-18-2015
Date of Receipt: 06-18-2015
Date of Report: 06-19-2015

MoldSCORE™: Spore Trap Report

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

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

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

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



Report for:

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

Regarding: Project: 21506001-1
EML ID: 1382625

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 06-23-2015

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: 21506001-1

Date of Sampling: 06-22-2015
 Date of Receipt: 06-22-2015
 Date of Report: 06-23-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21506001-1TM13OUT		21506001-1TM14		21506001-1TM15		21506001-1TM16	
Comments (see below)	A		None		None		None	
Lab ID-Version‡:	6353317-1		6353318-1		6353319-1		6353320-1	
Analysis Date:	06/23/2015		06/23/2015		06/23/2015		06/23/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	3	40	1	13	1	13		
Ascospores	1	53						
Basidiospores	4	210						
Chaetomium	4	53						
Cladosporium	139	5,700	1	53	1	53		
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium	1	13						
Other colorless								
Penicillium/Aspergillus types†	5	270						
Pithomyces								
Rusts	25	330	4	53	2	27	2	27
Smuts, Periconia, Myxomycetes	130	1,700	2	27			9	120
Stachybotrys								
Stemphylium	3	40						
Torula	8	110						
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	230		< 13		< 13		13	
Pollen/m3	150		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		8,600		150		93		150

Comments: A) 42 of the raw count *Cladosporium* spores were present as a single clump.

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

† 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: 21506001-1Date of Sampling: 06-22-2015
Date of Receipt: 06-22-2015
Date of Report: 06-23-2015**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21506001-1TM17		21506001-1TM18		21506001-1TM19	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6353321-1		6353322-1		6353323-1	
Analysis Date:	06/23/2015		06/23/2015		06/23/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13
Ascospores			1	53		
Basidiospores						
Chaetomium						
Cladosporium	4	210	1	53	4	210
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other colorless						
Penicillium/Aspergillus types†					8	430
Pithomyces						
Rusts	2	27				
Smuts, Periconia, Myxomycetes	3	40			4	53
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		1+		2+	
Hyphal fragments/m3	40		13		< 13	
Pollen/m3	13		13		53	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		280		110		710

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: 21506001-1

Date of Sampling: 06-22-2015
Date of Receipt: 06-22-2015
Date of Report: 06-23-2015

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21506001-1TM13OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: June in California† (n‡=17769)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	40	13	13	27	67	110	63	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	40	12	7	13	13	27	50	12
Chaetomium	53	7	13	13	27	40	24	8	13	13	27	50	19
Cladosporium	5,700	110	210	590	1,400	2,100	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	27	40	4	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Penicillium/Aspergillus types	270	53	53	190	470	750	82	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	33	60	5	7	13	13	33	67	4
Stemphylium	40	7	13	13	27	40	12	7	13	13	27	40	9
Torula	110	10	13	13	40	67	18	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	53	13	40	93	240	430	70	25	53	110	370	700	71
Basidiospores	210	40	53	160	480	910	90	53	80	270	1,000	2,400	93
Oidium	13	13	13	20	50	80	28	13	13	13	47	75	19
Rusts	330	13	13	27	53	93	38	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	1,700	13	25	53	170	310	80	13	13	40	110	210	68
§ TOTAL SPORES/m3	8,600												

†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: 21506001-1

Date of Sampling: 06-22-2015
 Date of Receipt: 06-22-2015
 Date of Report: 06-23-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21506001-1TM13OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				40	7 - 40 - 600	45
Ascospores				53	13 - 210 - 6,100	76
Basidiospores				210	13 - 430 - 24,000	92
Chaetomium				53	7 - 13 - 160	9
Cladosporium				5,700	27 - 480 - 10,000	90
Oidium				13	7 - 13 - 210	11
Penicillium/Aspergillus types				270	13 - 170 - 2,700	68
Rusts				330	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes				1,700	7 - 53 - 910	64
Stemphylium				40	7 - 13 - 89	3
Torula				110	7 - 13 - 170	9
Total				8,600		

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: 21506001-1TM14

% 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: 2.4524 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5333	dF: 11 Result: 0.6614 Critical value: 0.5273 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					53
Rusts					53
Smuts, Periconia, Myxomycetes					27
Total					150

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

Date of Sampling: 06-22-2015
 Date of Receipt: 06-22-2015
 Date of Report: 06-23-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21506001-1TM15

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 5 Result: 2.4524 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4286	dF: 11 Result: 0.4977 Critical value: 0.5273 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					53
Rusts					27
Total					93

Location: 21506001-1TM16

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 5 Result: 2.4524 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3077	dF: 11 Result: 0.6318 Critical value: 0.5273 Outside Similar: Yes	Score: 118 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Rusts					27
Smuts, Periconia, Myxomycetes					120
Total					150

Location: 21506001-1TM17

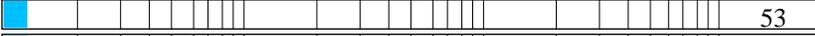
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 5 Result: 2.4524 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4286	dF: 11 Result: 0.8136 Critical value: 0.5273 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					210
Rusts					27
Smuts, Periconia, Myxomycetes					40
Total					280

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

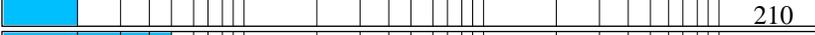
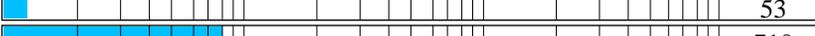
Date of Sampling: 06-22-2015
 Date of Receipt: 06-22-2015
 Date of Report: 06-23-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21506001-1TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 5 Result: 2.4524 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3077	dF: 11 Result: 0.4545 Critical value: 0.5273 Outside Similar: No	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Cladosporium					53
Total					110

Location: 21506001-1TM19

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 8%	dF: 5 Result: 2.4524 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5333	dF: 11 Result: 0.5864 Critical value: 0.5273 Outside Similar: Yes	Score: 163 Result: Medium	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					210
Penicillium/Aspergillus types					430
Smuts, Periconia, Myxomycetes					53
Total					710

* 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: 21506001-1Date of Sampling: 06-22-2015
Date of Receipt: 06-22-2015
Date of Report: 06-23-2015**MoldSTAT™: Supplementary Statistical Spore Trap Report**

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

Date of Sampling: 06-22-2015
 Date of Receipt: 06-22-2015
 Date of Report: 06-23-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21506001-1TM13OUT

Fungi Identified	Outdoor 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					4	53
Cladosporium					139	5,700
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					5	270
Stachybotrys					ND	< 13
Stemphylium					3	40
Torula					8	110
Seldom found growing indoors**						
Ascospores					1	53
Basidiospores					4	210
Oidium					1	13
Rusts					25	330
Smuts, Periconia, Myxomycetes					130	1,700
Total						8,587

Location: 21506001-1TM14

Fungi Identified	Indoor 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					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					4	53
Smuts, Periconia, Myxomycetes					2	27
Total						147

MoldSCORE‡	
100	200
300	Score
	105
	100
	100
	100
	100
	100
	100
	100
	100
	100
	100
	119
	100
Final MoldSCORE	105

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

Date of Sampling: 06-22-2015
 Date of Receipt: 06-22-2015
 Date of Report: 06-23-2015

MoldSCORE™: Spore Trap Report

Location: 21506001-1TM15

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					1	13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					1	53				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					ND	< 13				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores					ND	< 13				
Basidiospores					ND	< 13				
Rusts					2	27				
Smuts, Periconia, Myxomycetes					ND	< 13				
Total						93	Final MoldSCORE 105			

Location: 21506001-1TM16

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					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					2	27				
Smuts, Periconia, Myxomycetes					9	120				
Total						147	Final MoldSCORE 118			

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

Date of Sampling: 06-22-2015
 Date of Receipt: 06-22-2015
 Date of Report: 06-23-2015

MoldSCORE™: Spore Trap Report

Location: 21506001-1TM17

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	█				4	210	█			102
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					ND	< 13	█			100
Rusts	█				2	27	█			106
Smuts, Periconia, Myxomycetes	█				3	40	█			100
Total						280				Final MoldSCORE 102

Location: 21506001-1TM18

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	█				1	53	█	█		121
Basidiospores					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						107				Final MoldSCORE 100

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

Date of Sampling: 06-22-2015
 Date of Receipt: 06-22-2015
 Date of Report: 06-23-2015

MoldSCORE™: Spore Trap Report

Location: 21506001-1TM19

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria	█				1	13	█			104
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				4	210	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†	█	█			8	430	█	█	█	163
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	█				4	53	█			100
Total						707				Final MoldSCORE 163

* 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: 21506001-1
EML ID: 1387218

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 07-02-2015

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: 21506001-1

Date of Sampling: 07-01-2015
 Date of Receipt: 07-01-2015
 Date of Report: 07-02-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21506001-1TM20OUT		21506001-1TM21		21506001-1TM22		21506001-1TM23	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6375838-1		6375839-1		6375840-1		6375841-1	
Analysis Date:	07/02/2015		07/02/2015		07/02/2015		07/02/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores								
Basidiospores	1	53						
Botrytis								
Chaetomium								
Cladosporium	7	370			2	110		
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora	1	13						
Oidium	1	13						
Other colorless								
Penicillium/Aspergillus types†	3	160						
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	10	130	1	13	2	27	2	27
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		2+		2+		2+	
Hyphal fragments/m3	13		< 13		< 13		< 13	
Pollen/m3	13		13		27		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		750		13		130		27

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: 21506001-1

Date of Sampling: 07-01-2015
Date of Receipt: 07-01-2015
Date of Report: 07-02-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21506001-1TM24		21506001-1TM25		21506001-1TM26		21506001-1TM27	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6375842-1		6375843-1		6375844-1		6375845-1	
Analysis Date:	07/02/2015		07/02/2015		07/02/2015		07/02/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores								
Basidiospores								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium							1	13
Cladosporium	1	53					2	110
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium								
Other colorless								
Penicillium/Aspergillus types†	1	53	6	320				
Pithomyces								
Rusts	2	27						
Smuts, Periconia, Myxomycetes								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		1+		1+		2+	
Hyphal fragments/m3	< 13		< 13		< 13		13	
Pollen/m3	13		< 13		13		< 13	
Skin cells (1-4+)	1+		< 1+		< 1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		130		320		< 13		120

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.

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Re: 21506001-1

Date of Sampling: 07-01-2015
Date of Receipt: 07-01-2015
Date of Report: 07-02-2015

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21506001-1TM20OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: July in California† (n‡=18025)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	67	93	60	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	53	14	7	13	13	27	50	12
Chaetomium	-	8	13	13	27	47	25	8	13	13	27	50	19
Cladosporium	370	160	270	650	1,500	2,400	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	33	53	8	7	13	13	27	53	6
Nigrospora	13	7	13	13	27	40	6	7	13	13	27	53	9
Penicillium/Aspergillus types	160	53	89	210	590	960	85	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	40	80	5	7	13	13	33	67	4
Torula	-	8	13	13	40	67	15	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	-	13	40	80	210	370	68	25	53	110	370	700	71
Basidiospores	53	38	53	160	370	640	89	53	80	270	1,000	2,400	93
Oidium	13	13	13	13	40	67	21	13	13	13	47	75	19
Rusts	-	13	13	13	53	80	28	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	130	13	13	47	120	200	71	13	13	40	110	210	68
§ TOTAL SPORES/m3	750												

†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: 21506001-1

Date of Sampling: 07-01-2015
 Date of Receipt: 07-01-2015
 Date of Report: 07-02-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21506001-1TM20OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores	 < 13				13 - 210 - 6,100	76
Basidiospores	 53				13 - 430 - 24,000	92
Cladosporium	 370				27 - 480 - 10,000	90
Nigrospora	 13				7 - 13 - 240	16
Oidium	 13				7 - 13 - 210	11
Penicillium/Aspergillus types	 160				13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes	 130				7 - 53 - 910	64
Total	 750					

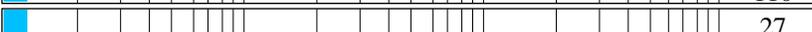
The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, 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: 21506001-1TM21

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 6 Result: 2.7643 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.3857 Critical value: 0.7714 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					
Total					

Location: 21506001-1TM22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 18%	dF: 6 Result: 2.7643 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.7286 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					
Smuts, Periconia, Myxomycetes					
Total					

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-1

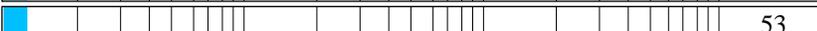
Date of Sampling: 07-01-2015
 Date of Receipt: 07-01-2015
 Date of Report: 07-02-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21506001-1TM23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 6 Result: 2.7643 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.3857 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					27
Total					27

Location: 21506001-1TM24

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 17%	dF: 6 Result: 2.7643 Critical value: 12.5916 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.5536 Critical value: 0.6786 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Penicillium/Aspergillus types					53
Rusts					27
Total					130

Location: 21506001-1TM25

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 43%	dF: 6 Result: 2.7643 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.5571 Critical value: 0.7714 Outside Similar: No	Score: 146 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					320
Total					320

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 Re: 21506001-1

Date of Sampling: 07-01-2015
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 Date of Report: 07-02-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21506001-1TM26

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 6 Result: 2.7643 Critical value: 12.5916 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: 21506001-1TM27

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 16%	dF: 6 Result: 2.7643 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.2946 Critical value: 0.6786 Outside Similar: No	Score: 121 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
		>100K		
Chaetomium		13		
Cladosporium		110		
Total		120		

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

** 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.

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Date of Receipt: 07-01-2015
Date of Report: 07-02-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

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 Re: 21506001-1

Date of Sampling: 07-01-2015
 Date of Receipt: 07-01-2015
 Date of Report: 07-02-2015

MoldSCORE™: Spore Trap Report

Location: 21506001-1TM22

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	█				2	110				105
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	█				2	27				104
Total						133				Final MoldSCORE 105

Location: 21506001-1TM23

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	█				2	27				105
Total						27				Final MoldSCORE 105

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Date of Sampling: 07-01-2015
 Date of Receipt: 07-01-2015
 Date of Report: 07-02-2015

MoldSCORE™: Spore Trap Report

Location: 21506001-1TM24

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				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					1	53				107
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					2	27				111
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						133				Final MoldSCORE 107

Location: 21506001-1TM25

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†					6	320				146
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						320				Final MoldSCORE 146

Client: Hygiene Technologies International, Inc.
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 Re: 21506001-1

Date of Sampling: 07-01-2015
 Date of Receipt: 07-01-2015
 Date of Report: 07-02-2015

MoldSCORE™: Spore Trap Report

Location: 21506001-1TM26

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: 21506001-1TM27

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	█				1	13	█	█		121
Cladosporium	█				2	110	█	█		106
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						120				Final MoldSCORE 121

Client: Hygiene Technologies International, Inc.
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Re: 21506001-1

Date of Sampling: 07-01-2015
Date of Receipt: 07-01-2015
Date of Report: 07-02-2015

MoldSCORE™: Spore Trap Report

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

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

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

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

HYGIENE TECHNOLOGIES INTER



001387218

3626 DEL AMO BOULEVARD, SUITE 180, TORRANCE, CA 90503 • (310) 370-8370 • FAX (310) 370-2474

Request For Analysis

Project Number/Purchase Order: 21506001-1

Date Submitted: 07-01-15

Project Contact: L. Sandhu/K.Hsl

Turnaround Required: Normal

Lab Destination: EMLAB P & K

Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21506001-1TM20OUT	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21506001-1TM21	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21506001-1TM22	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21506001-1TM23	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21506001-1TM24	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21506001-1TM25	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21506001-1TM26	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21506001-1TM27	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)

Special Instructions : Random Sampling (Round 4)

1. Sampled by: #Sandhu on 06-30-15 @ 15:20 hrs Received by: [Signature] 07/01/15 12:17 pm
2. Relinquished by: #Sandhu on 07-01-15 @ 12:17 hrs Received by: _____
3. Relinquished by: _____ Received by: _____
- Please include signature, date, and time

Lab Use Only: