



HYGIENETECH

Hygiene Technologies International, Inc.

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May 31, 2016

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

Document No. 21602001.1

Attention: Edna B. Murphy
Deputy Director Administration Department

Regarding: Limited Fungal Growth Exposure Assessment Surveys
February 2016 Random Sampling

Dear Ms. Murphy:

On February 5, 11, 16 and 25, 2016, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted limited fungal growth exposure assessment surveys involving 22 randomly selected areas located within the California State Board of Equalization (BOE) building. The findings of the surveys, along with the analytical data, conclusions, and recommendations when applicable, appear below.

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

As presented in Table 21602001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Botrytis*, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Epicoccum*, *Nigrospora*, *Oidium*, other brown, rusts, smuts, *Torula*, and/or *Ulocladium*. In the indoor areas tested, the data showed that airborne fungal spores were either not detected at or above the laboratory detection limit indicated or were detected at low airborne concentrations. The fungal spore types found indoor *Alternaria*, ascospores, basidiospores, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, other brown, *Nigrospora*, rusts, smuts, and/or *Stemphylium*. 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', is written over a solid horizontal line.

Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 21602001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
FEBRUARY 5, 11, 16, AND 25, 2016

Page 1

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

Alternaria				
Ascospores	270		53	
Basidiospores	8,500	53	1,300	1,300
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	2,100		53	270
Curvularia				
Epicoccum				
Fusarium				
Nigrospora	13			
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types	480		110	370
Pithomyces				
Rusts			13	
Smuts (Periconia, Myxomycetes)	13			40
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	13	<13	<13	<13
Background debris*	3+	3+	3+	3+
TOTAL**	11,000	53	1,600	2,000

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

SAMPLE NUMBER	21602001-1 TM05	21602001-1 TM06	21602001-1 TM07OUT	21602001-1 TM08
SAMPLING LOCATION/ACTIVITIES	6 th Floor; Column J18 area; Cubicle 75; about two foot northwest of Column J18; approximately five feet above floor/Normal office activities	7 th Floor; Column J18 area; Cubicle 67; about two foot northwest of Column J18; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet west of building; approximately five feet above ground/Normal outdoor activities	15 th Floor; Column K18 area; Cubicle 105; about ten feet southeast of Column K18; approximately five feet above floor/Normal office activities
DATE	02/05/16	02/05/16	02/11/16	02/11/16
START/STOP	10:59:00/11:04:00	11:07:00/11:12:00	14:31:00/14:36:00	14:40:00/14:45:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores			530	
Basidiospores	53	53	6,200	
Bipolaris/Drechslera group				
Botrytis			13	
Cercospora				
Chaetomium				
Cladosporium			5,500	
Epicoccum			13	
Fusarium				
Nigrospora			13	
Oidium				
Other brown				
Penicillium/Aspergillus types			480	53
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)			120	
Stachybotrys				
Stemphylium				
Torula			27	
Trichocladium				
Ulocladium			13	
Zygomycetes				
Hyphal fragments	<13	<13	27	<13
Background debris*	3+	3+	3+	1+
TOTAL **	53	53	13,000	53

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

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

SAMPLE NUMBER	21602001-1 TM09	21602001-1 TM10	21602001-1 TM11	21602001-1 TM12
SAMPLING LOCATION/ACTIVITIES	17 th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	19 th Floor; Column K18 area; about seven foot east of Column K18; approximately five feet above floor/Normal office activities	21 st Floor; Column M17 area; Cubicle 121 entry area; approximately five feet above floor/Normal office activities	23 rd Floor; Room 2337A; northeastern corner; approximately five feet above floor/Normal office activities
DATE	02/11/16	02/11/16	02/11/16	02/11/16
START/STOP	14:49:00/14:54:00	14:56:00/15:01:00	15:05:00/15:10:00	15:18:00/15:23:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				13
Ascospores				
Basidiospores				53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				13
Oidium				
Other brown		13		
Penicillium/Aspergillus types	53		53	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		13		
Stachybotrys				
Stemphylium	13			
Torula				
Ulocladium				
Hyphal fragments	13	<13	<13	<13
Background debris*	3+	2+	2+	2+
TOTAL **	67	27	53	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+.

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

SAMPLE NUMBER	21602001-1 TM13OUT	21602001-1 TM14	21602001-1 TM15	21602001-1 TM16
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet northeast of the main entrance; approximately five feet above ground/Normal outdoor activities	8 th Floor; Break Room 807; about center; approximately five feet above floor/Normal office activities	10 th Floor; Column J18 area; about one foot north of Column J18; approximately five feet above floor/Normal office activities	14 th Floor; Break Room 1402; about center; approximately five feet above floor/Normal office activities
DATE	02/16/16	02/16/16	02/16/16	02/16/16
START/STOP	15:56:00/16:01:00	16:05:00/16:10:00	16:12:00/16:17:00	16:20:00/16:25:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13			
Ascospores	640			
Basidiospores	6,100	160	53	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	5,100	110		40
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown	27			
Penicillium/Aspergillus types	480			
Pithomyces				
Rusts	53			
Smuts (Periconia, Myxomycetes)	27			
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	40	<13	13	<13
Background debris*	3+	3+	2+	2+
TOTAL**	12,000	270	53	40

*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	21602001-1 TM17	21602001-1 TM18	21602001-1 TM19 OUT	21602001-1 TM20
SAMPLING LOCATION/ACTIVITIES	20 th Floor; northern corridor adjacent to northwestern drinking fountain; approximately five feet above floor/Normal office activities	24 th Floor; Room 2427; about 10 feet south of Room 2441A; approximately five feet above floor/Normal office activities	Outdoors; about 30 feet northeast of the building; approximately five feet above ground/Normal outdoor activities	1 st Floor; Cafeteria corridor adjacent to Room 114; approximately five feet above floor/Normal office activities
DATE	02/16/16	02/16/16	02/25/16	02/25/16
START/STOP	16:28:00/16:33:00	16:38:00/16:43:00	10:01:00/10:06:00	10:08:00/10:13:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13		27	
Ascospores			370	
Basidiospores			11,000	320
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	53	1,300	53
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium			13	
Other brown	13			
Penicillium/Aspergillus types	53		640	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13	13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	27	<13
Background debris*	3+	2+	3+	3+
TOTAL**	150	67	14,000	370

*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	21602001-1 TM21	21602001-1 TM22	21602001-1 TM23	21602001-1 TM24
SAMPLING LOCATION/ACTIVITIES	2 nd Floor; Elevator Lobby; about center; approximately feet above floor/Normal office activities	9 th Floor; Column L17 area; Cubicle 7; about center; approximately feet above floor/Normal office activities	11 th Floor; Column K22 area; about 15 feet southeast of Column K22; approximately feet above floor/Normal office activities	16 th Floor; Elevator Lobby; about center; approximately feet above floor/Normal office activities
DATE	02/25/16	02/25/16	02/25/16	02/25/16
START/STOP	10:21:00/10:26:00	10:28:00/10:33:00	10:36:00/10:41:00	10:47:00/10:52:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores				
Basidiospores	160	110	110	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium			53	
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types		53		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	27	<13	<13	<13
Background debris*	3+	3+	2+	3+
TOTAL**	53	160	160	53

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

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

SAMPLE NUMBER	21602001-1 TM25	21602001-1 TM26		
SAMPLING LOCATION/ACTIVITIES	18 ^h Floor; Column J18 area; about four feet northwest of Column J18; approximately five feet above floor/ Normal office activities	22 nd Floor; Break Room 2223; about center; approximately five feet above floor/Normal office activities	This column intentionally left blank	This column intentionally left blank
DATE	02/25/16	02/25/16		
START/STOP	10:56:00/11:01:00	11:04:00/11:09:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria		13		
Ascospores				
Basidiospores		53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Helicoma				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13		
Background debris*	2+	3+		
TOTAL **	<13	67		

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

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



Report for:

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

Regarding: Project: 21602001-1
EML ID: 1490809

Approved by:

Dates of Analysis:
Spore trap analysis: 02-08-2016

Technical Manager
Louise White

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

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21602001-1Date of Sampling: 02-05-2016
Date of Receipt: 02-05-2016
Date of Report: 02-08-2016**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21602001-1TM01OUT		21602001-1TM02		21602001-1TM03	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6890027-1		6890028-1		6890029-1	
Analysis Date:	02/08/2016		02/08/2016		02/08/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores	5	270			1	53
Basidiospores	160	8,500	1	53	25	1,300
Botrytis						
Chaetomium						
Cladosporium	40	2,100			1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora	1	13				
Other colorless						
Penicillium/Aspergillus types†	9	480			2	110
Pithomyces						
Rusts					1	13
Smuts, Periconia, Myxomycetes	1	13				
Stachybotrys						
Stemphylium						
Torula	1	13				
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		3+		3+	
Hyphal fragments/m3	13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		2+		2+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		11,000		53		1,600

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-05-2016
 Date of Receipt: 02-05-2016
 Date of Report: 02-08-2016

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21602001-1TM04		21602001-1TM05		21602001-1TM06	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6890030-1		6890031-1		6890032-1	
Analysis Date:	02/08/2016		02/08/2016		02/08/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores						
Basidiospores	25	1,300	1	53	1	53
Botrytis						
Chaetomium						
Cladosporium	5	270				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†	7	370				
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	3	40				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		3+		3+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	2+		2+		2+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		2,000		53		53

Comments:

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

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

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

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

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21602001-1

Date of Sampling: 02-05-2016
Date of Receipt: 02-05-2016
Date of Report: 02-08-2016

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 21602001-1TM01OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data for: February in California† (n‡=18576)						Typical Outdoor Data for: The entire year in California† (n‡=229283)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	20	53	67	39	13	13	27	66	110	53
Bipolaris/Drechslera group	-	7	13	13	27	40	7	7	13	13	27	53	12
Chaetomium	-	7	13	13	27	40	9	8	13	13	27	48	19
Cladosporium	2,100	100	160	430	1,200	2,000	95	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	17	39	2	7	13	13	27	53	6
Nigrospora	13	7	13	13	13	32	4	7	13	13	27	53	9
Penicillium/Aspergillus types	480	53	76	210	530	850	82	53	100	210	610	1,000	84
Stachybotrys	-	13	13	13	40	80	3	7	13	13	33	67	4
Torula	13	7	13	13	40	53	5	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	270	27	53	160	530	1,000	73	26	53	110	370	720	71
Basidiospores	8,500	53	110	430	1,900	4,000	95	53	80	250	1,000	2,300	93
Rusts	-	8	13	13	40	79	14	13	13	13	53	87	26
Smuts, Periconia, Myxomycetes	13	13	13	27	67	110	55	13	13	40	110	200	68
§ TOTAL SPORES/m3	11,000												

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

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

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

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

‡n = number of samples used to calculate data.

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: 21602001-1

Date of Sampling: 02-05-2016
 Date of Receipt: 02-05-2016
 Date of Report: 02-08-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21602001-1TM01OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				270	13 - 210 - 6,100	76
Basidiospores				8,500	13 - 430 - 23,000	92
Cladosporium				2,100	27 - 480 - 9,900	90
Nigrospora				13	7 - 13 - 240	16
Penicillium/Aspergillus types				480	13 - 170 - 2,600	68
Smuts, Periconia, Myxomycetes				13	7 - 53 - 930	64
Torula				13	7 - 13 - 170	9
Total				11,000		

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

Indoor Samples

Location: 21602001-1TM02

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 10.1333 Critical value: 9.4877 Inside Similar: No	Result: 0.2500	dF: 7 Result: 0.7232 Critical value: 0.6786 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				53
	Total				53

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-05-2016
 Date of Receipt: 02-05-2016
 Date of Report: 02-08-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21602001-1TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 13%	dF: 4 Result: 10.1333 Critical value: 9.4877 Inside Similar: No	Result: 0.6667	dF: 8 Result: 0.8155 Critical value: 0.6190 Outside Similar: Yes	Score: 117 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					1,300
Cladosporium					53
Penicillium/Aspergillus types					110
Rusts					13
Total					1,600

Location: 21602001-1TM04

% 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: 4 Result: 10.1333 Critical value: 9.4877 Inside Similar: No	Result: 0.7273	dF: 7 Result: 0.8214 Critical value: 0.6786 Outside Similar: Yes	Score: 145 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					1,300
Cladosporium					270
Penicillium/Aspergillus types					370
Smuts, Periconia, Myxomycetes					40
Total					2,000

Location: 21602001-1TM05

% 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: 10.1333 Critical value: 9.4877 Inside Similar: No	Result: 0.2500	dF: 7 Result: 0.7232 Critical value: 0.6786 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Total					53

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-05-2016
 Date of Receipt: 02-05-2016
 Date of Report: 02-08-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21602001-1TM06

% 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: 10.1333 Critical value: 9.4877 Inside Similar: No	Result: 0.2500	dF: 7 Result: 0.7232 Critical value: 0.6786 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Total					53

* 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: 21602001-1

Date of Sampling: 02-05-2016
 Date of Receipt: 02-05-2016
 Date of Report: 02-08-2016

MoldSCORE™: Spore Trap Report

Location: 21602001-1TM03

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium	█				1	53			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†	█				2	110			107
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores	█				1	53			106
Basidiospores	█	█			25	1,300			115
Rusts	█				1	13			105
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						1,560			Final MoldSCORE 115

Location: 21602001-1TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium	█	█			5	270			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†	█	█			7	370			145
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores	█	█			25	1,300			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes	█				3	40			108
Total						2,013			Final MoldSCORE 145

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-05-2016
 Date of Receipt: 02-05-2016
 Date of Report: 02-08-2016

MoldSCORE™: Spore Trap Report

Location: 21602001-1TM05

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

Location: 21602001-1TM06

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21602001-1

Date of Sampling: 02-05-2016
Date of Receipt: 02-05-2016
Date of Report: 02-08-2016

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: 21602001-1
EML ID: 1493289

Approved by:

Dates of Analysis:
Spore trap analysis: 02-12-2016

Technical Manager
Louise White

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

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21602001-1Date of Sampling: 02-11-2016
Date of Receipt: 02-11-2016
Date of Report: 02-12-2016**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21602001-1TM07OUT		21602001-1TM08		21602001-1TM09	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6901233-1		6901234-1		6901235-1	
Analysis Date:	02/12/2016		02/12/2016		02/12/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores	10	530				
Basidiospores	116	6,200				
Botrytis	1	13				
Chaetomium						
Cladosporium	103	5,500				
Epicoccum	1	13				
Fusarium						
Myrothecium						
Nigrospora	1	13				
Other brown						
Other colorless						
Penicillium/Aspergillus types†	9	480	1	53	1	53
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	9	120				
Stachybotrys						
Stemphylium					1	13
Torula	2	27				
Ulocladium	1	13				
Zygomycetes						
Background debris (1-4+)††	3+		1+		3+	
Hyphal fragments/m3	27		< 13		13	
Pollen/m3	150		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		13.000		53		67

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-11-2016
 Date of Receipt: 02-11-2016
 Date of Report: 02-12-2016

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21602001-1TM10		21602001-1TM11		21602001-1TM12	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6901236-1		6901237-1		6901238-1	
Analysis Date:	02/12/2016		02/12/2016		02/12/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13
Ascospores						
Basidiospores					1	53
Botrytis						
Chaetomium						
Cladosporium						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora					1	13
Other brown	1	13				
Other colorless						
Penicillium/Aspergillus types†			1	53		
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	1	13				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		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		27		53		80

Comments:

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21602001-1

Date of Sampling: 02-11-2016
Date of Receipt: 02-11-2016
Date of Report: 02-12-2016

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21602001-1TM07OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: February in California† (n‡=18576)						Typical Outdoor Data for: The entire year in California† (n‡=230445)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	20	53	67	39	13	13	27	65	110	53
Bipolaris/Drechslera group	-	7	13	13	27	40	7	7	13	13	27	53	12
Chaetomium	-	7	13	13	27	40	9	8	13	13	27	48	19
Cladosporium	5,500	100	160	430	1,200	2,000	95	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	17	39	2	7	13	13	27	53	6
Epicoccum	13	7	13	13	27	53	14	8	13	13	40	53	19
Nigrospora	13	7	13	13	13	32	4	7	13	13	27	53	9
Other brown	-	13	13	13	27	53	29	13	13	13	40	53	34
Penicillium/Aspergillus types	480	53	76	210	530	850	82	53	100	210	610	1,000	84
Stachybotrys	-	13	13	13	40	80	3	7	13	13	33	67	4
Stemphylium	-	7	13	13	27	40	5	7	13	13	27	40	9
Torula	27	7	13	13	40	53	5	8	13	13	40	67	11
Ulocladium	13	9	13	13	27	40	7	8	13	13	27	40	10
Seldom found growing indoors**													
Ascospores	530	27	53	160	530	1,000	73	27	53	110	370	750	71
Basidiospores	6,200	53	110	430	1,900	4,000	95	53	80	260	1,000	2,400	93
Botrytis	13	13	13	17	53	80	16	13	13	20	53	80	16
Rusts	-	8	13	13	40	79	14	13	13	13	53	87	26
Smuts, Periconia, Myxomycetes	120	13	13	27	67	110	55	13	13	40	110	200	68
§ TOTAL SPORES/m3	13,000												

†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.

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

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

‡n = number of samples used to calculate data.

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Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-11-2016
 Date of Receipt: 02-11-2016
 Date of Report: 02-12-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21602001-1TM07OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				530	13 - 210 - 6,100	76
Basidiospores				6,200	13 - 430 - 24,000	92
Botrytis				13	7 - 27 - 290	5
Cladosporium				5,500	27 - 480 - 9,900	90
Epicoccum				13	7 - 27 - 350	24
Nigrospora				13	7 - 13 - 240	16
Penicillium/Aspergillus types				480	13 - 170 - 2,600	67
Smuts, Periconia, Myxomycetes				120	7 - 53 - 930	64
Torula				27	7 - 13 - 170	9
Ulocladium				13	7 - 13 - 110	4
Total				13,000		

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: 21602001-1TM08

% 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: 1.0000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.4848 Critical value: 0.5515 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					53
Total					53

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-11-2016
 Date of Receipt: 02-11-2016
 Date of Report: 02-12-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21602001-1TM09

% 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: 1.0000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.1773 Critical value: 0.5273 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Penicillium/Aspergillus types				53
	Stemphylium				13
	Total				67

Location: 21602001-1TM10

% 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: 1.0000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.0977 Critical value: 0.5273 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Other brown				13
	Smuts, Periconia, Myxomycetes				13
	Total				27

Location: 21602001-1TM11

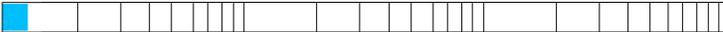
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 1.0000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.4848 Critical value: 0.5515 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Penicillium/Aspergillus types				53
	Total				53

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-11-2016
 Date of Receipt: 02-11-2016
 Date of Report: 02-12-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21602001-1TM12

% 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: 1.0000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3077	dF: 11 Result: 0.1705 Critical value: 0.5273 Outside Similar: No	Score: 110 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Alternaria				13
	Basidiospores				53
	Nigrospora				13
	Total				80

* 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.

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Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-11-2016
 Date of Receipt: 02-11-2016
 Date of Report: 02-12-2016

MoldSCORE™: Spore Trap Report

Location: 21602001-1TM09

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					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†	█				1	53				108
Stachybotrys					ND	< 13				100
Stemphylium	█				1	13				105
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						67				Final MoldSCORE 108

Location: 21602001-1TM10

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					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown	█				1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes	█				1	13				103
Total						27				Final MoldSCORE 108

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-11-2016
 Date of Receipt: 02-11-2016
 Date of Report: 02-12-2016

MoldSCORE™: Spore Trap Report

Location: 21602001-1TM11

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†	█				1	53				108
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						53				
Final MoldSCORE									108	

Location: 21602001-1TM12

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					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora	█				1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores	█				1	53				102
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						80				
Final MoldSCORE									110	

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21602001-1

Date of Sampling: 02-11-2016
Date of Receipt: 02-11-2016
Date of Report: 02-12-2016

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: 21602001-1
EML ID: 1495450

Approved by:

Dates of Analysis:
Spore trap analysis: 02-18-2016

Technical Manager
Louise White

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

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21602001-1Date of Sampling: 02-17-2016
Date of Receipt: 02-17-2016
Date of Report: 02-18-2016**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21602001-1TM13OUT		21602001-1TM14		21602001-1TM15	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6912558-1		6912559-1		6912560-1	
Analysis Date:	02/18/2016		02/18/2016		02/18/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13				
Ascospores	12	640				
Basidiospores	114	6,100	3	160	1	53
Chaetomium						
Cladosporium	96	5,100	2	110		
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown	2	27				
Other colorless						
Penicillium/Aspergillus types†	9	480				
Pithomyces						
Rusts	4	53				
Smuts, Periconia, Myxomycetes	2	27				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		3+		2+	
Hyphal fragments/m3	40		< 13		13	
Pollen/m3	130		13		< 13	
Skin cells (1-4+)	< 1+		2+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		12.000		270		53

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21602001-1Date of Sampling: 02-17-2016
Date of Receipt: 02-17-2016
Date of Report: 02-18-2016**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21602001-1TM16		21602001-1TM17		21602001-1TM18	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6912561-1		6912562-1		6912563-1	
Analysis Date:	02/18/2016		02/18/2016		02/18/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13		
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium	3	40	1	53	1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown			1	13		
Other colorless						
Penicillium/Aspergillus types†			1	53		
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes			1	13	1	13
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		3+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		2+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		40		150		67

Comments:

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21602001-1

Date of Sampling: 02-17-2016
Date of Receipt: 02-17-2016
Date of Report: 02-18-2016

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21602001-1TM13OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: February in California† (n‡=18576)						Typical Outdoor Data for: The entire year in California† (n‡=230445)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	13	13	13	20	53	67	39	13	13	27	65	110	53
Bipolaris/Drechslera group	-	7	13	13	27	40	7	7	13	13	27	53	12
Chaetomium	-	7	13	13	27	40	9	8	13	13	27	48	19
Cladosporium	5,100	100	160	430	1,200	2,000	95	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	17	39	2	7	13	13	27	53	6
Nigrospora	-	7	13	13	13	32	4	7	13	13	27	53	9
Other brown	27	13	13	13	27	53	29	13	13	13	40	53	34
Penicillium/Aspergillus types	480	53	76	210	530	850	82	53	100	210	610	1,000	84
Stachybotrys	-	13	13	13	40	80	3	7	13	13	33	67	4
Torula	-	7	13	13	40	53	5	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	640	27	53	160	530	1,000	73	27	53	110	370	750	71
Basidiospores	6,100	53	110	430	1,900	4,000	95	53	80	260	1,000	2,400	93
Rusts	53	8	13	13	40	79	14	13	13	13	53	87	26
Smuts, Periconia, Myxomycetes	27	13	13	27	67	110	55	13	13	40	110	200	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.

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Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-17-2016
 Date of Receipt: 02-17-2016
 Date of Report: 02-18-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21602001-1TM13OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria					7 - 40 - 590	45
Ascospores					13 - 210 - 6,100	76
Basidiospores					13 - 430 - 24,000	92
Cladosporium					27 - 480 - 9,900	90
Other brown					7 - 19 - 130	25
Penicillium/Aspergillus types					13 - 170 - 2,600	67
Rusts					7 - 20 - 360	20
Smuts, Periconia, Myxomycetes					7 - 53 - 930	64
Total						

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

Indoor Samples

Location: 21602001-1TM14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 4 Result: 5.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.7976 Critical value: 0.6190 Outside Similar: Yes	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				
	Cladosporium				
	Total				

Location: 21602001-1TM15

% 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: 4 Result: 5.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.6726 Critical value: 0.6190 Outside Similar: Yes	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				
	Total				

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-17-2016
 Date of Receipt: 02-17-2016
 Date of Report: 02-18-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21602001-1TM16

% 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: 4 Result: 5.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.5774 Critical value: 0.6190 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					40
Total					40

Location: 21602001-1TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 4 Result: 5.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.7692	dF: 8 Result: -0.0833 Critical value: 0.6190 Outside Similar: No	Score: 113 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					53
Other brown					13
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					13
Total					150

Location: 21602001-1TM18

% 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: 4 Result: 5.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.3155 Critical value: 0.6190 Outside Similar: No	Score: 103 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: 21602001-1

Date of Sampling: 02-17-2016
Date of Receipt: 02-17-2016
Date of Report: 02-18-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

* 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: 21602001-1

Date of Sampling: 02-17-2016
 Date of Receipt: 02-17-2016
 Date of Report: 02-18-2016

MoldSCORE™: Spore Trap Report

Location: 21602001-1TM15

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

Location: 21602001-1TM16

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					3	40			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					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						40			
							Final MoldSCORE		102

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-17-2016
 Date of Receipt: 02-17-2016
 Date of Report: 02-18-2016

MoldSCORE™: Spore Trap Report

Location: 21602001-1TM17

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria	█				1	13	█		105
Bipolaris/Drechslera group					ND	< 13	█		100
Chaetomium					ND	< 13	█		100
Cladosporium	█				1	53	█		100
Curvularia					ND	< 13	█		100
Nigrospora					ND	< 13	█		100
Other brown	█				1	13	█		105
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					ND	< 13	█		100
Smuts, Periconia, Myxomycetes	█				1	13	█		103
Total						147			Final MoldSCORE 113

Location: 21602001-1TM18

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13	█		100
Bipolaris/Drechslera group					ND	< 13	█		100
Chaetomium					ND	< 13	█		100
Cladosporium	█				1	53	█		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					ND	< 13	█		100
Smuts, Periconia, Myxomycetes	█				1	13	█		103
Total						67			Final MoldSCORE 103

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21602001-1

Date of Sampling: 02-17-2016
Date of Receipt: 02-17-2016
Date of Report: 02-18-2016

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: 21602001-1
EML ID: 1499413

Approved by:

Dates of Analysis:
Spore trap analysis: 02-26-2016

Technical Manager
Louise White

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

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-25-2016
 Date of Receipt: 02-25-2016
 Date of Report: 02-26-2016

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21602001-1TM19OUT		21602001-1TM20		21602001-1TM21		21602001-1TM22	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6933340-1		6933341-1		6933342-1		6933343-1	
Analysis Date:	02/26/2016		02/26/2016		02/26/2016		02/26/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27						
Ascospores	7	370						
Basidiospores	212	11,000	6	320	3	160	2	110
Chaetomium								
Cladosporium	24	1,300	1	53				
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium	1	13						
Other colorless								
Penicillium/Aspergillus types†	12	640					1	53
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		3+		3+		3+	
Hyphal fragments/m3	27		< 13		27		< 13	
Pollen/m3	250		53		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		14,000		370		160		160

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-25-2016
 Date of Receipt: 02-25-2016
 Date of Report: 02-26-2016

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21602001-1TM23		21602001-1TM24		21602001-1TM25		21602001-1TM26	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6933344-1		6933345-1		6933346-1		6933347-1	
Analysis Date:	02/26/2016		02/26/2016		02/26/2016		02/26/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria							1	13
Ascospores								
Basidiospores	2	110	1	53			1	53
Chaetomium								
Cladosporium	1	53						
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		3+		2+		3+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+		2+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		160		53		< 13		67

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21602001-1

Date of Sampling: 02-25-2016
Date of Receipt: 02-25-2016
Date of Report: 02-26-2016

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21602001-1TM19OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: February in California† (n‡=18576)						Typical Outdoor Data for: The entire year in California† (n‡=230445)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	27	13	13	20	53	67	39	13	13	27	65	110	53
Bipolaris/Drechslera group	-	7	13	13	27	40	7	7	13	13	27	53	12
Chaetomium	-	7	13	13	27	40	9	8	13	13	27	48	19
Cladosporium	1,300	100	160	430	1,200	2,000	95	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	17	39	2	7	13	13	27	53	6
Nigrospora	-	7	13	13	13	32	4	7	13	13	27	53	9
Penicillium/Aspergillus types	640	53	76	210	530	850	82	53	100	210	610	1,000	84
Stachybotrys	-	13	13	13	40	80	3	7	13	13	33	67	4
Torula	-	7	13	13	40	53	5	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	370	27	53	160	530	1,000	73	27	53	110	370	750	71
Basidiospores	11,000	53	110	430	1,900	4,000	95	53	80	260	1,000	2,400	93
Oidium	13	13	13	13	40	67	15	13	13	13	50	80	19
Rusts	-	8	13	13	40	79	14	13	13	13	53	87	26
Smuts, Periconia, Myxomycetes	-	13	13	27	67	110	55	13	13	40	110	200	68
§ TOTAL SPORES/m3	14,000												

†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: 21602001-1

Date of Sampling: 02-25-2016
 Date of Receipt: 02-25-2016
 Date of Report: 02-26-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21602001-1TM19OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria					7 - 40 - 590	45
Ascospores					13 - 210 - 6,100	76
Basidiospores					13 - 430 - 24,000	92
Cladosporium					27 - 480 - 9,900	90
Oidium					7 - 13 - 210	11
Penicillium/Aspergillus types					13 - 170 - 2,600	67
Smuts, Periconia, Myxomycetes					7 - 53 - 930	64
Total						

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

Indoor Samples

Location: 21602001-1TM20

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 6 Result: 3.5089 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.8571 Critical value: 0.7714 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				
	Cladosporium				
	Total				

Location: 21602001-1TM21

% 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: 3.5089 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.7143 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				
	Total				

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-25-2016
 Date of Receipt: 02-25-2016
 Date of Report: 02-26-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21602001-1TM22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 6 Result: 3.5089 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.7143 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Penicillium/Aspergillus types					53
Total					160

Location: 21602001-1TM23

% 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: 3.5089 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.8571 Critical value: 0.7714 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Cladosporium					53
Total					160

Location: 21602001-1TM24

% 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: 3.5089 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.7143 Critical value: 0.7714 Outside Similar: No	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Total					53

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-25-2016
 Date of Receipt: 02-25-2016
 Date of Report: 02-26-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21602001-1TM25

% 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: 3.5089 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
None Detected		>100K		
		< 13		

Location: 21602001-1TM26

% 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: 3.5089 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.4286 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
		>100K		
Alternaria		13		
Basidiospores		53		
Total		67		

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

** 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: 21602001-1Date of Sampling: 02-25-2016
Date of Receipt: 02-25-2016
Date of Report: 02-26-2016**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: 21602001-1

Date of Sampling: 02-25-2016
 Date of Receipt: 02-25-2016
 Date of Report: 02-26-2016

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21602001-1TM19OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					2	27
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					24	1,300
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					12	640
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					7	370
Basidiospores					212	11,000
Oidium					1	13
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					ND	< 13
Total						13,640

Location: 21602001-1TM20

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					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					6	320
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					ND	< 13
Total						373

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			101
			100
			100
			100
			100
			100
			100
			100
			102
			100
			100
Final MoldSCORE			102

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-25-2016
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 Date of Report: 02-26-2016

MoldSCORE™: Spore Trap Report

Location: 21602001-1TM21

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					3	160			103
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						160			
							Final MoldSCORE		103

Location: 21602001-1TM22

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					1	53			107
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					2	110			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						160			
							Final MoldSCORE		107

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

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 Date of Receipt: 02-25-2016
 Date of Report: 02-26-2016

MoldSCORE™: Spore Trap Report

Location: 21602001-1TM23

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

Location: 21602001-1TM24

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21602001-1

Date of Sampling: 02-25-2016
 Date of Receipt: 02-25-2016
 Date of Report: 02-26-2016

MoldSCORE™: Spore Trap Report

Location: 21602001-1TM25

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
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: 21602001-1TM26

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

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21602001-1

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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 INTERNATIONAL

3625 DEL AMO BOULEVARD, SUITE 180, TORRANCE, CA 90503 • (310) 370-8370 • FAX (310) 370-2474

Request For Analysis

Project Number/Purchase Order: <u>21602001-1</u>		Date Submitted: <u>02-11-16</u>	
Project Contact: <u>L. Sandhu/K.Hsi</u>		Turnaround Required: <u>Normal</u>	
Lab Destination: <u>EMLAB P & K</u>		Lab Contact: <u>Sample Receiving</u>	
SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21602001-1TM07OUT	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21602001-1TM08	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21602001-1TM09	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21602001-1TM10	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21602001-1TM11	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21602001-1TM12	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
Special Instructions : <u>Random Sampling (Round 2)</u>			
1. Sampled by: <u>H. Sandhu</u> on <u>02-11-16@1431 hrs</u>		Received by: <u>Chitra Chitra</u> <u>2/11 16:57</u>	
2. Relinquished by: <u>H. Sandhu</u> on <u>02-11-16@1700 hrs</u>		Received by: _____	
3. Relinquished by: _____		Received by: _____	
Please include signature, date, and time			
Lab Use Only:			



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HYGIENE TECHNOLOGIES INTERNATIONAL

3625 DEL AMO BOULEVARD, SUITE 180, TORRANCE, CA 90503 • (310) 370-8370 • FAX (310) 370-2474

Request For Analysis



001499413

Project Number/Purchase Order: 21602001-1

Date Submitted: 02-25-16

Project Contact: L. Sandhu/K.Hsi

Turnaround Required: Normal

Lab Destination: EMLAB P & K

Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21602001-1TM19OUT	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21602001-1TM20	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21602001-1TM21	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21602001-1TM22	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21602001-1TM23	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21602001-1TM24	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21602001-1TM25	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21602001-1TM26	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)

Special Instructions : Random Sampling (Round 4)

1. Sampled by: [Signature] on 02-25-16@ 1001hrs

Received by: [Signature] 2/25 12:28

2. Relinquished by: [Signature] on 02-25-16@ 12:28 hrs

Received by: _____

3. Relinquished by: _____

Received by: _____

Please include signature, date, and time

Lab Use Only: