



HYGIENETECH

Hygiene Technologies International, Inc.

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September 8, 2015

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

Document No. 21507001.1

Attention: Edna B. Murphy
Deputy Director Administration Department

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

Dear Ms. Murphy:

On July 7, 13, 22 and 31, 2015, 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 21507001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Epicoccum*, *Oidium*, other brown, rust, smuts, *Stachybotrys*, *Stemphylium* and/or *Torula*. In the indoor areas tested, the data showed that airborne fungal spores were either not detected at or above the laboratory detection limit indicated or were detected at low airborne concentrations. The fungal spore types found indoor included *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Oidium*, rusts, and/or smuts. The distribution of fungal spore types detected in the surveyed areas was consistent with those found outdoors, and the overall data within the tested areas were well below the overall outdoor data recorded. These data are considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.



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

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

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

A handwritten signature in black ink, appearing to read 'Kenny', 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 21507001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
JULY 7, 13, 22, AND 31, 2015

Page 1

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

SAMPLE NUMBER	21507001-1 TM01OUT	21507001-1 TM02	21507001-1 TM03	21507001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities	2 nd Floor; Elevator Lobby; about center; approximately five feet above floor/ Normal office activities	4 th Floor; Column K17 area; about three feet northwest of Column K17; approximately five feet above floor/Normal office activities	7 th Floor; Column N18 area; Cubicle 145; entry area; approximately five feet above floor/Normal office activities
DATE	07/07/15	07/07/15	07/07/15	07/07/15
START/STOP	14:08:00/14:13:00	14:16:00/14:21:00	14:23:00/14:28:00	14:31:00/14:36:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	53			
Ascospores	53			
Basidiospores	320		53	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	1,800	160		53
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium	13			
Other brown	13			
Other colorless				
Penicillium/Aspergillus types	160		110	
Pithomyces				
Rusts	53			
Smuts (Periconia, Myxomycetes)	67		13	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	40	27	<13	<13
Background debris*	3+	2+	2+	2+
TOTAL**	4,800	160	170	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+.

**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
JULY 7, 13, 22, AND 31, 2015

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

SAMPLE NUMBER	21507001-1 TM05	21507001-1 TM06	21507001-1 TM07OUT	21507001-1 TM08
SAMPLING LOCATION/ACTIVITIES	10 th Floor; Break Room 1009; about center; approximately five feet above floor/Normal office activities	17 th Floor; Elevator Lobby; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet west of the building; approximately five feet above ground/Normal outdoor activities	3 rd Floor; Room 317; Reception Area; about center; approximately five feet above floor/Normal office activities
DATE	07/07/15	07/07/15	07/13/15	07/13/15
START/STOP	15:12:00/15:17:00	15:22:00/15:27:00	10:06:00/10:11:00	10:15:00/10:20:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13	13	53	
Ascospores			160	
Basidiospores			53	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		110	1,800	53
Curvularia				
Epicoccum	13			13
Fusarium				
Nigrospora				
Oidium				13
Other brown				
Penicillium/Aspergillus types	53	53	53	
Pithomyces				
Rusts		13		13
Smuts (Periconia, Myxomycetes)	13		760	40
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	27	120	<13
Background debris*	2+	2+	2+	3+
TOTAL **	93	190	2,800	130

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

SAMPLE NUMBER	21507001-1 TM09	21507001-1 TM10	21507001-1 TM11	21507001-1 TM12
SAMPLING LOCATION/ACTIVITIES	5 th Floor; southeastern stairwell area; approximately five feet above floor/Normal building activities	9 th Floor; Column O20 area; Cubicle 129-130; about center; approximately five feet above floor/Normal office activities	15 th Floor; Break Room 1508; about center; approximately five feet above floor/Normal office activities	18 th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities
DATE	07/13/15	07/13/15	07/13/15	07/13/15
START/STOP	10:27:00/10:32:00	10:36:00/10:41:00	10:45:00/10:50:00	10:53:00/10:58:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	160	430	53	53
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types			53	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		27	13	13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	13	<13	<13
Background debris*	2+	3+	2+	2+
TOTAL **	160	450	120	67

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

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

SAMPLE NUMBER	21507001-1 TM13	21507001-1 TM14OUT	21507001-1 TM15	21507001-1 TM16
SAMPLING LOCATION/ACTIVITIES	22 nd Floor; Room 2227; about center; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet south of the building; approximately five feet above ground/Normal outdoor activities	6 th Floor; northern corridor; adjacent to northwestern drinking fountain; approximately five feet above floor/Normal office activities	8 th Floor; Column M18 area; about three feet northwest of Column M18; approximately five feet above floor/Normal office activities
DATE	07/13/15	07/22/15	07/22/15	07/22/15
START/STOP	11:03:00/11:08:00	09:25:00/09:30:00	09:34:00/09:39:00	09:42:00/09:47:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		53		
Ascospores				
Basidiospores		210		
Bipolaris/Drechslera group				
Botrytis			53	
Chaetomium		13		
Cladosporium		2,700		
Curvularia		13		
Epicoccum			13	
Nigrospora				
Oidium			40	
Other brown		13		
Other colorless				
Penicillium/Aspergillus types		110		
Pithomyces				
Rusts		27	13	
Smuts (Periconia, Myxomycetes)		440	27	27
Stachybotrys				
Stemphylium		13		
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	13	110	27	<13
Background debris*	2+	3+	2+	2+
TOTAL**	<13	3,600	150	27

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

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

SAMPLE NUMBER	21507001-1 TM17	21507001-1 TM18	21507001-1 TM19	21507001-1 TM20
SAMPLING LOCATION/ACTIVITIES	16 th Floor; Column L22 area; about five east of Column L22; approximately five feet above floor/Normal office activities	19 th Floor; Men's Restroom; about center approximately five feet above floor/Normal restroom activities	20 th Floor; Column K17 area; Cubicle 9; about two feet west of Column K17; approximately five feet above floor/Normal office activities	21 st Floor; Room 2103; about center; approximately five feet above floor/Normal office activities
DATE	07/22/15	07/22/15	07/22/15	07/22/15
START/STOP	09:51:00/09:56:00	09:59:00/10:04:00	10:07:00/10:12:00	10:17:00/10:22:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13	13		
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora		13		
Oidium				
Other brown			13	
Penicillium/Aspergillus types				
Pithomyces				
Rusts	13			
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	13	13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	27	27	13	<13

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

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

SAMPLE NUMBER	21507001-1 TM21OUT	21507001-1 TM22	21507001-1 TM23	21507001-1 TM24
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet west of the building; approximately five feet above ground/Normal outdoor activities	1 st Floor; corridor adjacent to Day Care entrance; about center; approximately feet above floor/Normal building activities	11 th Floor; High-Rise Elevator Lobby; about center; approximately five feet above floor/Normal office activities	14 th Floor; Column N18 area; approximately feet above floor/Normal office activities
DATE	07/31/15	07/31/15	07/31/15	07/31/15
START/STOP	15:10:00/15:15:00	15:18:00/15:23:00	15:25:00/15:30:00	15:32:00/15:37:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	40		27	13
Ascospores	110			
Basidiospores	110		53	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	27			
Cladosporium	2,100		110	210
Curvularia				
Epicoccum	13			
Fusarium				
Myrothecium				
Nigrospora				
Oidium	27			
Other brown	27	13	13	
Penicillium/Aspergillus types	690	270	53	53
Pithomyces				
Rusts			27	110
Smuts (Periconia, Myxomycetes)			67	
Stachybotrys	40			
Stemphylium				
Torula	13			
Ulocladium				
Hyphal fragments	560	<13	<13	13
Background debris*	3+	2+	3+	2+
TOTAL**	4,700	280	350	390

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

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SAMPLE NUMBER	21507001-1 TM25	21507001-1 TM26		
SAMPLING LOCATION/ACTIVITIES	23 rd Floor; Room 2322; about 10 feet northeast of main entry door; approximately five feet above floor/Normal Office activities	24 th Floor; Room 2442; about center; approximately five feet above floor/Sampling activities only	This column intentionally left blank	This column intentionally left blank
DATE	07/31/15	07/31/15		
START/STOP	15:42:00/15:47:00	15:50:00/15:55:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53			
Curvularia				
Epicoccum				
Helicoma				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13			
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13		
Background debris*	2+	1+		
TOTAL**	67	<13		

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

**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: 21507001-1
EML ID: 1389919

Approved by:

Dates of Analysis:
Spore trap analysis: 07-09-2015

Technical Manager
Louise White

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21507001-1Date of Sampling: 07-07-2015
Date of Receipt: 07-08-2015
Date of Report: 07-09-2015**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21507001-1TM01OUT		21507001-1TM02		21507001-1TM03	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6388495-1		6388496-1		6388497-1	
Analysis Date:	07/09/2015		07/09/2015		07/09/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	4	53				
Ascospores	1	53				
Basidiospores	6	320			1	53
Chaetomium						
Cladosporium	33	1,800	3	160		
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium	1	13				
Other brown	1	13				
Other colorless						
Penicillium/Aspergillus types†	3	160			2	110
Pithomyces						
Rusts	4	53				
Smuts, Periconia, Myxomycetes	5	67			1	13
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		2+		2+	
Hyphal fragments/m3	40		27		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		2,500		160		170

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21507001-1Date of Sampling: 07-07-2015
Date of Receipt: 07-08-2015
Date of Report: 07-09-2015**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21507001-1TM04		21507001-1TM05		21507001-1TM06	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6388498-1		6388499-1		6388500-1	
Analysis Date:	07/09/2015		07/09/2015		07/09/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13	1	13
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium	1	53			2	110
Curvularia						
Epicoccum			1	13		
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other brown						
Other colorless						
Penicillium/Aspergillus types†			1	53	1	53
Pithomyces						
Rusts					1	13
Smuts, Periconia, Myxomycetes			1	13		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		27	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		53		93		190

Comments:

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

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

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 Re: 21507001-1

Date of Sampling: 07-07-2015
 Date of Receipt: 07-08-2015
 Date of Report: 07-09-2015

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21507001-1TM01OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: July in California† (n‡=18025)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	53	13	13	27	67	93	60	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	53	14	7	13	13	27	50	12
Chaetomium	-	8	13	13	27	47	25	8	13	13	27	50	19
Cladosporium	1,800	160	270	650	1,500	2,400	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	33	53	8	7	13	13	27	53	6
Epicoccum	-	8	13	13	40	60	25	8	13	13	38	53	19
Nigrospora	-	7	13	13	27	40	6	7	13	13	27	53	9
Other brown	13	13	13	13	40	53	36	13	13	13	40	53	34
Penicillium/Aspergillus types	160	53	89	210	590	960	85	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	40	80	5	7	13	13	33	67	4
Torula	-	8	13	13	40	67	15	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	53	13	40	80	210	370	68	25	53	110	370	700	71
Basidiospores	320	38	53	160	370	640	89	53	80	270	1,000	2,400	93
Oidium	13	13	13	13	40	67	21	13	13	13	47	75	19
Rusts	53	13	13	13	53	80	28	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	67	13	13	47	120	200	71	13	13	40	110	210	68
§ TOTAL SPORES/m3	2,500												

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

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

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

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

‡n = number of samples used to calculate data.

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-07-2015
 Date of Receipt: 07-08-2015
 Date of Report: 07-09-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21507001-1TM01OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				53	7 - 40 - 600	45
Ascospores				53	13 - 210 - 6,100	76
Basidiospores				320	13 - 430 - 24,000	92
Cladosporium				1,800	27 - 480 - 10,000	90
Oidium				13	7 - 13 - 210	11
Other brown				13	7 - 15 - 130	24
Penicillium/Aspergillus types				160	13 - 170 - 2,700	68
Rusts				53	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes				67	7 - 53 - 910	64
Total				2,500		

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

Indoor Samples

Location: 21507001-1TM02

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: 4 Result: 3.2000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6708 Critical value: 0.5833 Outside Similar: Yes	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Cladosporium				160
	Total				160

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-07-2015
 Date of Receipt: 07-08-2015
 Date of Report: 07-09-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21507001-1TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: 4 Result: 3.2000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5000	dF: 9 Result: 0.6333 Critical value: 0.5833 Outside Similar: Yes	Score: 116 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Penicillium/Aspergillus types					110
Smuts, Periconia, Myxomycetes					13
Total					170

Location: 21507001-1TM04

% 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: 3.2000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6708 Critical value: 0.5833 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Location: 21507001-1TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 4 Result: 3.2000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.1394 Critical value: 0.5515 Outside Similar: No	Score: 112 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Epicoccum					13
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					13
Total					93

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-07-2015
 Date of Receipt: 07-08-2015
 Date of Report: 07-09-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21507001-1TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 7%	dF: 4 Result: 3.2000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.6154	dF: 9 Result: 0.5583 Critical value: 0.5833 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					110
Penicillium/Aspergillus types					53
Rusts					13
Total					190

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-07-2015
 Date of Receipt: 07-08-2015
 Date of Report: 07-09-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21507001-1TM01OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					4	53
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					33	1,800
Curvularia					ND	< 13
Nigrospora					ND	< 13
Other brown					1	13
Penicillium/Aspergillus types†					3	160
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					1	53
Basidiospores					6	320
Oidium					1	13
Rusts					4	53
Smuts, Periconia, Myxomycetes					5	67
Total						2,493

Location: 21507001-1TM02

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

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			103
			100
			100
			100
			100
			100
			100
			100
			100
			100
Final MoldSCORE			103

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-07-2015
 Date of Receipt: 07-08-2015
 Date of Report: 07-09-2015

MoldSCORE™: Spore Trap Report

Location: 21507001-1TM03

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†	█				2	110				116
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	█				1	13				102
Total						173				Final MoldSCORE 116

Location: 21507001-1TM04

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-07-2015
 Date of Receipt: 07-08-2015
 Date of Report: 07-09-2015

MoldSCORE™: Spore Trap Report

Location: 21507001-1TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria	█				1	13	█			104
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					ND	< 13	█			100
Curvularia					ND	< 13	█			100
Epicoccum	█				1	13	█			105
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†	█				1	53	█			107
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes	█				1	13	█			102
Total						93				Final MoldSCORE 112

Location: 21507001-1TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria	█				1	13	█			104
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				2	110	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†	█				1	53	█			107
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					ND	< 13	█			100
Rusts	█				1	13	█			104
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						187				Final MoldSCORE 107

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21507001-1

Date of Sampling: 07-07-2015
Date of Receipt: 07-08-2015
Date of Report: 07-09-2015

MoldSCORE™: Spore Trap Report

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

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

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

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



Report for:

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

Regarding: Project: 21507001-1
EML ID: 1391875

Approved by:

Dates of Analysis:
Spore trap analysis: 07-14-2015

Technical Manager
Louise White

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-13-2015
 Date of Receipt: 07-13-2015
 Date of Report: 07-14-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21507001-1TM07OUT		21507001-1TM08		21507001-1TM09		21507001-1TM10	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6398819-1		6398820-1		6398821-1		6398822-1	
Analysis Date:	07/14/2015		07/14/2015		07/14/2015		07/14/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	4	53						
Ascospores	3	160						
Basidiospores	1	53						
Chaetomium								
Cladosporium	33	1,800	1	53	3	160	8	430
Curvularia								
Epicoccum			1	13				
Fusarium								
Myrothecium								
Nigrospora								
Oidium			1	13				
Other colorless								
Penicillium/Aspergillus types†	1	53						
Pithomyces								
Rusts			1	13				
Smuts, Periconia, Myxomycetes	57	760	3	40			2	27
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		3+		2+		3+	
Hyphal fragments/m3	120		< 13		< 13		13	
Pollen/m3	130		27		27		13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		2,800		130		160		450

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-13-2015
 Date of Receipt: 07-13-2015
 Date of Report: 07-14-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21507001-1TM11		21507001-1TM12		21507001-1TM13	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6398823-1		6398824-1		6398825-1	
Analysis Date:	07/14/2015		07/14/2015		07/14/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium	1	53	1	53		
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
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+		2+		2+	
Hyphal fragments/m3	< 13		< 13		13	
Pollen/m3	< 13		27		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		120		67		< 13

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21507001-1Date of Sampling: 07-13-2015
Date of Receipt: 07-13-2015
Date of Report: 07-14-2015**MoldRANGE™: Extended Outdoor Comparison**
Outdoor Location: 21507001-1TM07OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: July in California† (n‡=18025)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	53	13	13	27	67	93	60	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	53	14	7	13	13	27	50	12
Chaetomium	-	8	13	13	27	47	25	8	13	13	27	50	19
Cladosporium	1,800	160	270	650	1,500	2,400	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	33	53	8	7	13	13	27	53	6
Epicoccum	-	8	13	13	40	60	25	8	13	13	38	53	19
Nigrospora	-	7	13	13	27	40	6	7	13	13	27	53	9
Penicillium/Aspergillus types	53	53	89	210	590	960	85	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	40	80	5	7	13	13	33	67	4
Torula	-	8	13	13	40	67	15	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	160	13	40	80	210	370	68	25	53	110	370	700	71
Basidiospores	53	38	53	160	370	640	89	53	80	270	1,000	2,400	93
Oidium	-	13	13	13	40	67	21	13	13	13	47	75	19
Rusts	-	13	13	13	53	80	28	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	760	13	13	47	120	200	71	13	13	40	110	210	68
§ TOTAL SPORES/m3	2,800												

†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: 21507001-1

Date of Sampling: 07-13-2015
 Date of Receipt: 07-13-2015
 Date of Report: 07-14-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21507001-1TM07OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				53	7 - 40 - 600	45
Ascospores				160	13 - 210 - 6,100	76
Basidiospores				53	13 - 430 - 24,000	92
Cladosporium				1,800	27 - 480 - 10,000	90
Penicillium/Aspergillus types				53	13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes				760	7 - 53 - 930	64
Total				2,800		

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: 21507001-1TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 4%	dF: 5 Result: 6.6667 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.2750 Critical value: 0.5833 Outside Similar: No	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Cladosporium				53
	Epicoccum				13
	Oidium				13
	Rusts				13
	Smuts, Periconia, Myxomycetes				40
	Total				130

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-13-2015
 Date of Receipt: 07-13-2015
 Date of Report: 07-14-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21507001-1TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 5%	dF: 5 Result: 6.6667 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.7714 Critical value: 0.7714 Outside Similar: Yes	Score: 104 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					160
Total					160

Location: 21507001-1TM10

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 15%	dF: 5 Result: 6.6667 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.9143 Critical value: 0.7714 Outside Similar: Yes	Score: 109 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					430
Smuts, Periconia, Myxomycetes					27
Total					450

Location: 21507001-1TM11

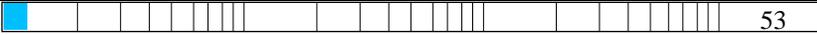
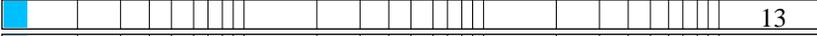
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 4%	dF: 5 Result: 6.6667 Critical value: 11.0705 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.5000 Critical value: 0.7714 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					13
Total					120

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-13-2015
 Date of Receipt: 07-13-2015
 Date of Report: 07-14-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21507001-1TM12

% 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: 5 Result: 6.6667 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.9143 Critical value: 0.7714 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
Total					67

Location: 21507001-1TM13

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 6.6667 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					< 13

* 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: 21507001-1

Date of Sampling: 07-13-2015
Date of Receipt: 07-13-2015
Date of Report: 07-14-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-13-2015
 Date of Receipt: 07-13-2015
 Date of Report: 07-14-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21507001-1TM07OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					4	53
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					33	1,800
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					1	53
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					3	160
Basidiospores					1	53
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					57	760
Total						2,840

Location: 21507001-1TM08

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					1	53
Curvularia					ND	< 13
Epicoccum					1	13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					ND	< 13
Basidiospores					ND	< 13
Oidium					1	13
Rusts					1	13
Smuts, Periconia, Myxomycetes					3	40
Total						133

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			100
			100
			105
			100
			100
			100
			100
			100
			100
			105
			105
			101
Final MoldSCORE			106

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-13-2015
 Date of Receipt: 07-13-2015
 Date of Report: 07-14-2015

MoldSCORE™: Spore Trap Report

Location: 21507001-1TM09

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	█				3	160	█			104
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						160				Final MoldSCORE 104

Location: 21507001-1TM10

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	█	█			8	430	█			109
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes	█				2	27	█			100
Total						453				Final MoldSCORE 109

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-13-2015
 Date of Receipt: 07-13-2015
 Date of Report: 07-14-2015

MoldSCORE™: Spore Trap Report

Location: 21507001-1TM11

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					1	53				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					1	53				108
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					1	13				100
Total						120	Final MoldSCORE 108			

Location: 21507001-1TM12

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					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				101
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					1	13				100
Total						67	Final MoldSCORE 101			

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-13-2015
 Date of Receipt: 07-13-2015
 Date of Report: 07-14-2015

MoldSCORE™: Spore Trap Report

Location: 21507001-1TM13

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

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

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

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

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



Report for:

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

Regarding: Project: 21507001-1
EML ID: 1396623

Approved by:

Dates of Analysis:
Spore trap analysis: 07-23-2015

Technical Manager
Louise White

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Lakhpreet Sandhu
Re: 21507001-1

Date of Sampling: 07-22-2015
Date of Receipt: 07-22-2015
Date of Report: 07-23-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21507001-1TM14OUT		21507001-1TM15		21507001-1TM16		21507001-1TM17	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6423873-1		6423874-1		6423875-1		6423876-1	
Analysis Date:	07/23/2015		07/23/2015		07/23/2015		07/23/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	4	53					1	13
Ascospores								
Basidiospores	4	210						
Chaetomium	1	13						
Cladosporium	51	2,700	1	53				
Curvularia	1	13						
Epicoccum			1	13				
Myrothecium								
Nigrospora								
Oidium			3	40				
Other brown	1	13						
Other colorless								
Penicillium/Aspergillus types†	2	110						
Pithomyces								
Rusts	2	27	1	13			1	13
Smuts, Periconia, Myxomycetes	33	440	2	27	2	27		
Stachybotrys								
Stemphylium	1	13						
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		2+		2+		2+	
Hyphal fragments/m3	110		27		< 13		< 13	
Pollen/m3	93		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		3,600		150		27		27

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-22-2015
 Date of Receipt: 07-22-2015
 Date of Report: 07-23-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21507001-1TM18		21507001-1TM19		21507001-1TM20	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6423877-1		6423878-1		6423879-1	
Analysis Date:	07/23/2015		07/23/2015		07/23/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13				
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora	1	13				
Oidium						
Other brown			1	13		
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	13		13		< 13	
Pollen/m3	< 13		13		< 13	
Skin cells (1-4+)	1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		27		13		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
 † The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
 †† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

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

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
 ‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
 § Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Lakhpreet Sandhu
Re: 21507001-1

Date of Sampling: 07-22-2015
Date of Receipt: 07-22-2015
Date of Report: 07-23-2015

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21507001-1TM14OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: July in California† (n‡=18025)						Typical Outdoor Data for: The entire year in California† (n‡=214484)						
		spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*														
Alternaria	53	13	13	27	67	93	60	13	13	27	63	100	53	
Bipolaris/Drechslera group	-	7	13	13	27	53	14	7	13	13	27	50	12	
Chaetomium	13	8	13	13	27	47	25	8	13	13	27	50	19	
Cladosporium	2,700	160	270	650	1,500	2,400	98	110	210	610	1,700	2,800	97	
Curvularia	13	7	13	13	33	53	8	7	13	13	27	53	6	
Epicoccum	-	8	13	13	40	60	25	8	13	13	38	53	19	
Nigrospora	-	7	13	13	27	40	6	7	13	13	27	53	9	
Other brown	13	13	13	13	40	53	36	13	13	13	40	53	34	
Penicillium/Aspergillus types	110	53	89	210	590	960	85	53	100	210	610	1,000	84	
Stachybotrys	-	8	13	13	40	80	5	7	13	13	33	67	4	
Stemphylium	13	7	13	13	27	40	12	7	13	13	27	40	9	
Torula	-	8	13	13	40	67	15	8	13	13	40	67	11	
Seldom found growing indoors**														
Ascospores	-	13	40	80	210	370	68	25	53	110	370	700	71	
Basidiospores	210	38	53	160	370	640	89	53	80	270	1,000	2,400	93	
Oidium	-	13	13	13	40	67	21	13	13	13	47	75	19	
Rusts	27	13	13	13	53	80	28	13	13	13	53	80	26	
Smuts, Periconia, Myxomycetes	440	13	13	47	120	200	71	13	13	40	110	210	68	
§ TOTAL SPORES/m3	3,600													

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

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

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

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

‡n = number of samples used to calculate data.

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-22-2015
 Date of Receipt: 07-22-2015
 Date of Report: 07-23-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21507001-1TM14OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				53	7 - 40 - 600	45
Ascospores				< 13	13 - 210 - 6,100	76
Basidiospores				210	13 - 430 - 24,000	92
Chaetomium				13	7 - 13 - 160	9
Cladosporium				2,700	27 - 480 - 10,000	90
Curvularia				13	7 - 27 - 600	18
Other brown				13	7 - 17 - 130	24
Penicillium/Aspergillus types				110	13 - 170 - 2,700	68
Rusts				27	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes				440	7 - 53 - 930	64
Stemphylium				13	7 - 13 - 89	3
Total				3,600		

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

Indoor Samples

Location: 21507001-1TM15

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 5 Result: 4.7679 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4000	dF: 12 Result: 0.2290 Critical value: 0.4965 Outside Similar: No	Score: 107 Result: Low
Species Detected	Spores/m3			
	<100	1K	10K	>100K
Cladosporium				53
Epicoccum				13
Oidium				40
Rusts				13
Smuts, Periconia, Myxomycetes				27
Total				150

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-22-2015
 Date of Receipt: 07-22-2015
 Date of Report: 07-23-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21507001-1TM16

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 4.7679 Critical value: 11.0705 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.6061 Critical value: 0.5515 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					27
Total					27

Location: 21507001-1TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 4.7679 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.2879 Critical value: 0.5515 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Rusts					13
Total					27

Location: 21507001-1TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 4.7679 Critical value: 11.0705 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.0977 Critical value: 0.5273 Outside Similar: No	Score: 110 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Nigrospora					13
Total					27

Client: Hygiene Technologies International, Inc.
C/O: Mr. Lakhpreet Sandhu
Re: 21507001-1

Date of Sampling: 07-22-2015
Date of Receipt: 07-22-2015
Date of Report: 07-23-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-22-2015
 Date of Receipt: 07-22-2015
 Date of Report: 07-23-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21507001-1TM14OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					4	53
Bipolaris/Drechslera group					ND	< 13
Chaetomium					1	13
Cladosporium					51	2,700
Curvularia					1	13
Nigrospora					ND	< 13
Other brown					1	13
Penicillium/Aspergillus types†					2	110
Stachybotrys					ND	< 13
Stemphylium					1	13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					ND	< 13
Basidiospores					4	210
Rusts					2	27
Smuts, Periconia, Myxomycetes					33	440
Total						3,613

Location: 21507001-1TM15

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
Epicoccum					1	13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					ND	< 13
Basidiospores					ND	< 13
Oidium					3	40
Rusts					1	13
Smuts, Periconia, Myxomycetes					2	27
Total						147

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			100
			100
			105
			100
			100
			100
			100
			100
			100
			116
			105
			102
Final MoldSCORE			107

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-22-2015
 Date of Receipt: 07-22-2015
 Date of Report: 07-23-2015

MoldSCORE™: Spore Trap Report

Location: 21507001-1TM16

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

Location: 21507001-1TM17

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-22-2015
 Date of Receipt: 07-22-2015
 Date of Report: 07-23-2015

MoldSCORE™: Spore Trap Report

Location: 21507001-1TM18

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

Location: 21507001-1TM19

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-22-2015
 Date of Receipt: 07-22-2015
 Date of Report: 07-23-2015

MoldSCORE™: Spore Trap Report

Location: 21507001-1TM20

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

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

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

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

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



Report for:

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

Regarding: Project: 21507001-1
EML ID: 1401759

Approved by:

Technical Manager
Louise White

REVISED REPORT

Dates of Analysis:
Spore trap analysis: 08-07-2015

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21507001-1Date of Sampling: 07-31-2015
Date of Receipt: 07-31-2015
Date of Report: 08-03-2015**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21507001-1TM21OUT		21507001-1TM22		21507001-1TM23	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6449248-2		6449249-2		6449250-2	
Analysis Date:	08/07/2015		08/07/2015		08/07/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	3	40			2	27
Ascospores	2	110				
Basidiospores	2	110			1	53
Chaetomium	2	27				
Cladosporium	40	2,100			2	110
Epicoccum	1	13				
Fusarium						
Myrothecium						
Nigrospora						
Oidium	2	27				
Other brown	2	27	1	13	1	13
Other colorless						
Penicillium/Aspergillus types†	13	690	5	270	1	53
Pithomyces						
Rusts					2	27
Smuts, Periconia, Myxomycetes	109	1,500			5	67
Stachybotrys	3	40				
Stemphylium						
Torula	1	13				
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		2+		3+	
Hyphal fragments/m3	560		< 13		< 13	
Pollen/m3	53		< 13		40	
Skin cells (1-4+)	< 1+		< 1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		4,700		280		350

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21507001-1

Date of Sampling: 07-31-2015
Date of Receipt: 07-31-2015
Date of Report: 08-03-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21507001-1TM24		21507001-1TM25		21507001-1TM26	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6449251-2		6449252-2		6449253-2	
Analysis Date:	08/07/2015		08/07/2015		08/07/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13				
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium	4	210	1	53		
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other brown						
Other colorless						
Penicillium/Aspergillus types†	1	53				
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	8	110	1	13		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		1+	
Hyphal fragments/m3	13		< 13		< 13	
Pollen/m3	13		< 13		< 13	
Skin cells (1-4+)	1+		1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		390		67		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
 † The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
 †† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

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

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
 ‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
 § Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21507001-1

Date of Sampling: 07-31-2015
Date of Receipt: 07-31-2015
Date of Report: 08-03-2015

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21507001-1TM21OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: July in California† (n‡=18025)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	40	13	13	27	67	93	60	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	53	14	7	13	13	27	50	12
Chaetomium	27	8	13	13	27	47	25	8	13	13	27	50	19
Cladosporium	2,100	160	270	650	1,500	2,400	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	33	53	8	7	13	13	27	53	6
Epicoccum	13	8	13	13	40	60	25	8	13	13	38	53	19
Nigrospora	-	7	13	13	27	40	6	7	13	13	27	53	9
Other brown	27	13	13	13	40	53	36	13	13	13	40	53	34
Penicillium/Aspergillus types	690	53	89	210	590	960	85	53	100	210	610	1,000	84
Stachybotrys	40	8	13	13	40	80	5	7	13	13	33	67	4
Torula	13	8	13	13	40	67	15	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	110	13	40	80	210	370	68	25	53	110	370	700	71
Basidiospores	110	38	53	160	370	640	89	53	80	270	1,000	2,400	93
Oidium	27	13	13	13	40	67	21	13	13	13	47	75	19
Rusts	-	13	13	13	53	80	28	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	1,500	13	13	47	120	200	71	13	13	40	110	210	68
§ TOTAL SPORES/m3	4,700												

†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: 21507001-1

Date of Sampling: 07-31-2015
 Date of Receipt: 07-31-2015
 Date of Report: 08-03-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21507001-1TM21OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria					7 - 40 - 600	45
Ascospores					13 - 210 - 6,100	76
Basidiospores					13 - 430 - 24,000	92
Chaetomium					7 - 13 - 160	9
Cladosporium					27 - 480 - 10,000	90
Epicoccum					7 - 22 - 330	24
Oidium					7 - 13 - 210	11
Other brown					7 - 17 - 130	24
Penicillium/Aspergillus types					13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes					7 - 53 - 930	64
Stachybotrys					7 - 13 - 510	3
Torula					7 - 13 - 170	9
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: 21507001-1TM22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: 4 Result: 10.9143 Critical value: 9.4877 Inside Similar: No	Result: 0.2857	dF: 12 Result: 0.3636 Critical value: 0.4965 Outside Similar: No	Score: 136 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Other brown				
	Penicillium/Aspergillus types				
	Total				

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-31-2015
 Date of Receipt: 07-31-2015
 Date of Report: 08-03-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21507001-1TM23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 7%	dF: 4 Result: 10.9143 Critical value: 9.4877 Inside Similar: No	Result: 0.6316	dF: 13 Result: 0.6676 Critical value: 0.4780 Outside Similar: Yes	Score: 114 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					27
Basidiospores					53
Cladosporium					110
Other brown					13
Penicillium/Aspergillus types					53
Rusts					27
Smuts, Periconia, Myxomycetes					67
Total					350

Location: 21507001-1TM24

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 8%	dF: 4 Result: 10.9143 Critical value: 9.4877 Inside Similar: No	Result: 0.5000	dF: 12 Result: 0.7867 Critical value: 0.4965 Outside Similar: Yes	Score: 104 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					210
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					110
Total					390

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-31-2015
 Date of Receipt: 07-31-2015
 Date of Report: 08-03-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21507001-1TM25

% 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: 4 Result: 10.9143 Critical value: 9.4877 Inside Similar: No	Result: 0.2857	dF: 12 Result: 0.7238 Critical value: 0.4965 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
Total					67

Location: 21507001-1TM26

% 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: 4 Result: 10.9143 Critical value: 9.4877 Inside Similar: No	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					< 13

* 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: 21507001-1

Date of Sampling: 07-31-2015
Date of Receipt: 07-31-2015
Date of Report: 08-03-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-31-2015
 Date of Receipt: 07-31-2015
 Date of Report: 08-03-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21507001-1TM21OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					3	40
Bipolaris/Drechslera group					ND	< 13
Chaetomium					2	27
Cladosporium					40	2,100
Curvularia					ND	< 13
Epicoccum					1	13
Nigrospora					ND	< 13
Other brown					2	27
Penicillium/Aspergillus types†					13	690
Stachybotrys					3	40
Torula					1	13
Seldom found growing indoors**						
Ascospores					2	110
Basidiospores					2	110
Oidium					2	27
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					109	1,500
Total						4,680

Location: 21507001-1TM22

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					ND	< 13
Curvularia					ND	< 13
Nigrospora					ND	< 13
Other brown					1	13
Penicillium/Aspergillus types†					5	270
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					ND	< 13
Basidiospores					ND	< 13
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					ND	< 13
Total						280

MoldSCORE‡		Score
100	200	
		100
		100
		100
		100
		100
		100
		104
		136
		100
		100
		100
		100
		100
		100
Final MoldSCORE		136

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-31-2015
 Date of Receipt: 07-31-2015
 Date of Report: 08-03-2015

MoldSCORE™: Spore Trap Report

Location: 21507001-1TM23

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					2	27				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					2	110				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Other brown					1	13				
Penicillium/Aspergillus types†					1	53				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores					ND	< 13				
Basidiospores					1	53				
Rusts					2	27				
Smuts, Periconia, Myxomycetes					5	67				
Total						347	Final MoldSCORE 114			

Location: 21507001-1TM24

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					1	13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					4	210				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					1	53				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores					ND	< 13				
Basidiospores					ND	< 13				
Rusts					ND	< 13				
Smuts, Periconia, Myxomycetes					8	110				
Total						387	Final MoldSCORE 104			

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21507001-1

Date of Sampling: 07-31-2015
 Date of Receipt: 07-31-2015
 Date of Report: 08-03-2015

MoldSCORE™: Spore Trap Report

Location: 21507001-1TM25

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				1	53	█			101
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes	█				1	13	█			100
Total						67				Final MoldSCORE 101

Location: 21507001-1TM26

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21507001-1

Date of Sampling: 07-31-2015
Date of Receipt: 07-31-2015
Date of Report: 08-03-2015

MoldSCORE™: Spore Trap Report

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

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

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

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

HYGIENE TECHNOLOGIES INTERNA



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

Request For Analysis

Project Number/Purchase Order: 21507001-1

Date Submitted: 07-22-15

Project Contact: L. Sandhu/K.Hsl

Turnaround Required: Normal

Lab Destination: EMLAB P & K

Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21507001-1TM14OUT	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21507001-1TM15	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21507001-1TM18	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21507001-1TM16	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21507001-1TM18	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21507001-1TM19	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21507001-1TM20	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)

Special Instructions : Random Sampling (Round 3)

1. Sampled by: L. Sandhu on 07-22-15@ 0925 hrs Received by: [Signature] 07/22/15
 2. Relinquished by: L. Sandhu on 07-22-15@ 1215 hrs Received by: _____
 3. Relinquished by: _____ Received by: _____
 Please include signature, date, and time

Lab Use Only:

