



HYGIENETECH

Hygiene Technologies International, Inc.

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May 21, 2015

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

Document No. 21503001.1

Attention: David Gau

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

Dear Mr. Gau:

On March 11, 16, 20 and 30, 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 21503001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, Bipolaris/Drechslera group, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Epicoccum*, *Nigrospora*, *Oidium*, other brown, rust, smuts and/or *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 basidiospores, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Oidium*, other brown, rusts, smuts and/or *Stemphylium*. The distribution of fungal spore types detected in the surveyed areas was consistent with those found outdoors, and the overall data within the tested areas were well below the overall outdoor data recorded. These data are considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.



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

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

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 21503001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
MARCH 11, 16, 20, AND 30, 2015

Page 1

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

SAMPLE NUMBER	21503001-1 TM01OUT	21503001-1 TM02	21503001-1 TM03	21503001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet north of Cafeteria entry door; approximately five feet above ground/Normal outdoor activities	1 st Floor; Room 114; about center; approximately five feet above floor/Sampling activities only	5 th Floor; Men's Restroom; about center; approximately five feet above floor/Normal office activities	9 th Floor; Column N23 area; Cubicle 86; northwestern corner; approximately five feet above floor/Normal office activities
DATE	03/11/15	03/11/15	03/11/15	03/11/15
START/STOP	15:12:00/15:17:00	15:19:00/15:24:00	15:31:00/15:36:00	15:39:00/15:44:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13			
Ascospores	6,200			
Basidiospores	4,300			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	1,300			
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium	13			
Other brown	13			
Other colorless				
Penicillium/Aspergillus types	160			
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13			
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	27	<13	<13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	12,000	<13	<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+.

**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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SACRAMENTO, CALIFORNIA
MARCH 11, 16, 20, AND 30, 2015

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

SAMPLE NUMBER	21503001-1 TM05	21503001-1 TM06	21503001-1 TM07	21503001-1 TM08
SAMPLING LOCATION/ACTIVITIES	15 th Floor; Room 1503 northern entry door area; about center; approximately five feet above floor/Normal office activities	17 th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	20 th Floor; eastern corridor at northern end; approximately five feet above floor/Normal office activities	24 th Floor; Room 2428; western portion; about center; approximately five feet above floor/Normal office activities
DATE	03/11/15	03/11/15	03/11/15	03/11/15
START/STOP	15:51:00/15:56:00	15:58:00/16:03:00	16:05:00/16:10:00	16:12:00/16:17:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	13			
Cladosporium		110	53	
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown		13		
Penicillium/Aspergillus types	53			
Pithomyces				
Rusts		27		
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	13	27	<13	<13
Background debris*	2+	2+	2+	2+
TOTAL **	67	150	53	<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.

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

SAMPLE NUMBER	21503001-1 TM09OUT	21503001-1 TM10	21503001-1 TM11	21503001-1 TM12
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet east of the building; approximately five feet above ground/Normal outdoor activities	3 rd Floor; Column K22 area; about five feet west of Column K22; approximately five feet above floor/Normal office activities	4 th Floor; Break Room 406; about center; approximately five feet above floor/Normal office activities	7 th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities
DATE	03/16/15	03/16/15	03/16/15	03/16/15
START/STOP	14:34:00/14:39:00	14:46:00/14:51:00	14:54:00/14:59:00	15:04:00/15:09:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	120			
Arthrinium				
Ascospores	1,400			
Basidiospores	3,600			
Bipolaris/Drechslera group	13			
Botrytis				
Chaetomium	67			
Cladosporium	6,200	210		
Curvularia				
Epicoccum				
Fusarium				
Nigrospora	27			
Oidium	330			13
Other brown	13			13
Penicillium/Aspergillus types	750			
Pithomyces				
Rusts	67			13
Smuts (Periconia, Myxomycetes)	560			13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	40	13	<13	27
Background debris*	2+	2+	2+	2+
TOTAL **	13,000	210	<13	53

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

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

SAMPLE NUMBER	21503001-1 TM13	21503001-1 TM14	21503001-1 TM15OUT	21503001-1 TM16
SAMPLING LOCATION/ACTIVITIES	14 th Floor; Men's Restroom; southern portion; about center; approximately five feet above floor/Normal office activities	19 th Floor; Column N21 area; about two feet east of Column N21; 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; area between Column K18 and K17; about center; approximately five feet above floor/Normal office activities
DATE	03/16/15	03/16/15	03/20/15	03/20/15
START/STOP	15:13:00/15:18:00	15:22:00/15:27:00	14:57:00/15:02:00	15:07:00/15:12:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	
Ascospores			53	
Basidiospores			1,300	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium			80	
Cladosporium			3,700	53
Curvularia				
Epicoccum				
Nigrospora				
Oidium	13		27	
Other brown				
Other colorless				
Penicillium/Aspergillus types	53		160	
Pithomyces				
Rusts			130	13
Smuts (Periconia, Myxomycetes)	40		750	170
Stachybotrys				
Stemphylium				
Torula			13	
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	53	<13
Background debris*	2+	1+	2+	2+
TOTAL**	110	<13	6,200	240

*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	21503001-1 TM17	21503001-1 TM18	21503001-1 TM19	21503001-1 TM20
SAMPLING LOCATION/ACTIVITIES	10 th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	16 th Floor; Column N23 area; Cubicle 107 entry area; approximately five feet above floor/Normal office activities	18 th Floor; Column M17 area; Cubicle 102 entry area; approximately five feet above floor/Normal office activities	22 nd Floor; Column K22 area; about seven feet south of Column K22; approximately five feet above floor/Normal office activities
DATE	03/20/15	03/20/15	03/20/15	03/20/15
START/STOP	15:15:00/15:20:00	15:27:00/15:32:00	15:38:00/15:43:00	15:51:00/15:56:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores				
Basidiospores	53			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown			13	
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13	53	13	53
Stachybotrys				
Stemphylium				13
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	13	<13	13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	67	53	27	67

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

SAMPLE NUMBER	21503001-1 TM21OUT	21503001-1 TM22	21503001-1 TM23	21503001-1 TM24
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet east of the building; approximately five feet above ground/Normal outdoor activities	2 nd Floor; Elevator Lobby; about center; approximately five feet above floor/ Normal office activities	8 th Floor; Column M18 area; Cubicle 97.01; entry area; approximately five feet above floor/Normal office activities	11 th Floor; Low-Rise Elevator Lobby; about center; approximately five feet above floor/Normal office activities
DATE	03/30/15	03/30/15	03/30/15	03/30/15
START/STOP	15:27:00/15:32:00	15:35:00/15:40:00	15:42:00/15:47:00	15:50:00/15:55:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	40			
Ascospores				
Basidiospores	110	53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	13			
Cladosporium	2,700			
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium	3,500	40		
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts	1,400			53
Smuts (Periconia, Myxomycetes)	5,400	120		27
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	67	<13	<13	13
Background debris*	2+	2+	2+	2+
TOTAL**	13,000	210	<13	80

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

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SAMPLE NUMBER	21503001-1 TM25	21503001-1 TM26		
SAMPLING LOCATION/ACTIVITIES	21 st Floor; Room 21B; about center; approximately five feet above floor/Normal office activities	23 rd Floor; Room 2334; reception area; about center; approximately five feet above floor/Normal office activities	This column intentionally left blank	This column intentionally left blank
DATE	03/30/15	03/30/15		
START/STOP	15:57:00/16:02:00	16:11:00/16:16:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Helicoma				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts	130			
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13		
Background debris*	1+	2+		
TOTAL**	130	<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: 21503001-1
EML ID: 1336761

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 03-13-2015

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: 21503001-1

Date of Sampling: 03-11-2015
 Date of Receipt: 03-12-2015
 Date of Report: 03-13-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21503001-1TM01OUT		21503001-1TM02		21503001-1TM03		21503001-1TM04	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6111393-1		6111394-1		6111395-1		6111396-1	
Analysis Date:	03/13/2015		03/13/2015		03/13/2015		03/13/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13						
Ascospores	117	6,200						
Basidiospores	81	4,300						
Chaetomium								
Cladosporium	25	1,300						
Fusarium								
Myrothecium								
Nigrospora								
Oidium	1	13						
Other brown	1	13						
Other colorless								
Penicillium/Aspergillus types†	3	160						
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	1	13						
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	27		< 13		< 13		< 13	
Pollen/m3	910		< 13		13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		12,000		< 13		< 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.

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21503001-1

Date of Sampling: 03-11-2015
Date of Receipt: 03-12-2015
Date of Report: 03-13-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21503001-1TM05		21503001-1TM06		21503001-1TM07		21503001-1TM08	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6111397-1		6111398-1		6111399-1		6111400-1	
Analysis Date:	03/13/2015		03/13/2015		03/13/2015		03/13/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores								
Basidiospores								
Chaetomium	1	13						
Cladosporium			2	110	1	53		
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium								
Other brown			1	13				
Other colorless								
Penicillium/Aspergillus types†	1	53						
Pithomyces								
Rusts			2	27				
Smuts, Periconia, Myxomycetes								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	13		27		< 13		< 13	
Pollen/m3	< 13		27		13		< 13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		67		150		53		< 13

Comments:

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

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

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

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

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Re: 21503001-1

Date of Sampling: 03-11-2015
Date of Receipt: 03-12-2015
Date of Report: 03-13-2015

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21503001-1TM01OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: March in California† (n‡=21179)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	13	13	13	27	53	80	45	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	40	8	7	13	13	27	50	12
Chaetomium	-	7	13	13	27	40	11	8	13	13	27	50	19
Cladosporium	1,300	89	160	430	1,100	1,800	95	110	210	610	1,700	2,800	97
Curvularia	-	7	12	13	27	40	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Other brown	13	11	13	13	27	53	30	13	13	13	40	53	34
Penicillium/Aspergillus types	160	53	53	160	480	750	80	53	100	210	610	1,000	84
Stachybotrys	-	7	13	13	27	67	3	7	13	13	33	67	4
Torula	-	8	13	13	40	67	7	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	6,200	27	53	160	480	850	78	25	53	110	370	700	71
Basidiospores	4,300	67	130	430	1,500	2,800	96	53	80	270	1,000	2,400	93
Oidium	13	13	13	17	53	80	22	13	13	13	47	75	19
Rusts	-	13	13	13	48	80	22	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	13	13	13	27	67	110	54	13	13	40	110	210	68
§ TOTAL SPORES/m3	12,000												

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

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

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

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

‡n = number of samples used to calculate data.

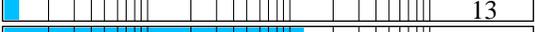
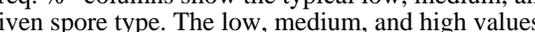
Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21503001-1

Date of Sampling: 03-11-2015
 Date of Receipt: 03-12-2015
 Date of Report: 03-13-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21503001-1TM01OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria					7 - 40 - 610	45
Ascospores					13 - 210 - 6,000	76
Basidiospores					17 - 440 - 24,000	92
Cladosporium					27 - 480 - 10,000	90
Oidium					7 - 13 - 210	11
Other brown					7 - 13 - 130	24
Penicillium/Aspergillus types					13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes					7 - 53 - 920	64
Total						

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

Indoor Samples

Location: 21503001-1TM02

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 4.9714 Critical value: 12.5916 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
None Detected		<100	1K	10K	>100K
					

Location: 21503001-1TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 4.9714 Critical value: 12.5916 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
None Detected		<100	1K	10K	>100K
					

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21503001-1

Date of Sampling: 03-11-2015
 Date of Receipt: 03-12-2015
 Date of Report: 03-13-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21503001-1TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 6 Result: 4.9714 Critical value: 12.5916 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected				
				< 13

Location: 21503001-1TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 6 Result: 4.9714 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.0917 Critical value: 0.5833 Outside Similar: No	Score: 121 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Chaetomium				13
Penicillium/Aspergillus types				53
Total				67

Location: 21503001-1TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 6 Result: 4.9714 Critical value: 12.5916 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: -0.0167 Critical value: 0.5833 Outside Similar: No	Score: 106 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				110
Other brown				13
Rusts				27
Total				150

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21503001-1

Date of Sampling: 03-11-2015
 Date of Receipt: 03-12-2015
 Date of Report: 03-13-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21503001-1TM07

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 4.9714 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.5357 Critical value: 0.6190 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					
Total					

Location: 21503001-1TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 4.9714 Critical value: 12.5916 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					

* 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: 21503001-1

Date of Sampling: 03-11-2015
Date of Receipt: 03-12-2015
Date of Report: 03-13-2015

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: 21503001-1

Date of Sampling: 03-11-2015
 Date of Receipt: 03-12-2015
 Date of Report: 03-13-2015

MoldSCORE™: Spore Trap Report

Location: 21503001-1TM03

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

Location: 21503001-1TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					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: 21503001-1

Date of Sampling: 03-11-2015
 Date of Receipt: 03-12-2015
 Date of Report: 03-13-2015

MoldSCORE™: Spore Trap Report

Location: 21503001-1TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium	█				1	13	█	█		121
Cladosporium					ND	< 13	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†	█				1	53	█	█		108
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						67				Final MoldSCORE 121

Location: 21503001-1TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				2	110	█	█		106
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Other brown	█				1	13	█	█		105
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					ND	< 13	█			100
Rusts	█				2	27	█	█		111
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						147				Final MoldSCORE 106

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21503001-1

Date of Sampling: 03-11-2015
 Date of Receipt: 03-12-2015
 Date of Report: 03-13-2015

MoldSCORE™: Spore Trap Report

Location: 21503001-1TM07

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
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										103

Location: 21503001-1TM08

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: 21503001-1

Date of Sampling: 03-11-2015
Date of Receipt: 03-12-2015
Date of Report: 03-13-2015

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 INTERNATIONAL



001336761

3625 DEL AMO BOULEVARD, SUITE 180, TORRANCE, CA 90503 • (310) 370-8370 • FAX (310) 370-2914

Request For Analysis

Project Number/Purchase Order: 21503001-1

Date Submitted: 03-12-15

Project Contact: L. Sandhu/K.Hsl

Turnaround Required: Normal

Lab Destination: EMLAB P & K

Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21503001-1TM01OUT	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21503001-1TM02	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21503001-1TM03	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21503001-1TM04	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21503001-1TM05	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21503001-1TM06	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21503001-1TM07	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21503001-1TM08	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)

Special Instructions : Random Sampling (Round 1)

1. Sampled by: [Signature] on 03-11-15@1512 hrs Received by: [Signature] 03/12/15
 2. Relinquished by: [Signature] on 03-12-15@1230 hrs Received by: _____
 3. Relinquished by: _____ Received by: _____

Please include signature, date, and time

Lab Use Only:



Report for:

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

Regarding: Project: 21503001-1
EML ID: 1338689

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 03-18-2015

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: 21503001-1

Date of Sampling: 03-16-2015
Date of Receipt: 03-17-2015
Date of Report: 03-18-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21503001-1TM09OUT		21503001-1TM10		21503001-1TM11	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6121032-1		6121033-1		6121034-1	
Analysis Date:	03/18/2015		03/18/2015		03/18/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	9	120				
Ascospores	27	1,400				
Basidiospores	68	3,600				
Bipolaris/Drechslera group	1	13				
Chaetomium	5	67				
Cladosporium	116	6,200	4	210		
Fusarium						
Myrothecium						
Nigrospora	2	27				
Oidium	25	330				
Other brown	1	13				
Other colorless						
Penicillium/Aspergillus types†	14	750				
Pithomyces						
Rusts	5	67				
Smuts, Periconia, Myxomycetes	42	560				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	40		13		< 13	
Pollen/m3	3,400		13		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		13,000		210		< 13

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21503001-1

Date of Sampling: 03-16-2015
 Date of Receipt: 03-17-2015
 Date of Report: 03-18-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21503001-1TM12		21503001-1TM13		21503001-1TM14	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6121035-1		6121036-1		6121037-1	
Analysis Date:	03/18/2015		03/18/2015		03/18/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Bipolaris/Drechslera group						
Chaetomium						
Cladosporium						
Fusarium						
Myrothecium						
Nigrospora						
Oidium	1	13	1	13		
Other brown	1	13				
Other colorless						
Penicillium/Aspergillus types†			1	53		
Pithomyces						
Rusts	1	13				
Smuts, Periconia, Myxomycetes	1	13	3	40		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		1+	
Hyphal fragments/m3	27		< 13		< 13	
Pollen/m3	93		< 13		< 13	
Skin cells (1-4+)	1+		1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		53		110		< 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: 21503001-1

Date of Sampling: 03-16-2015
Date of Receipt: 03-17-2015
Date of Report: 03-18-2015

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21503001-1TM09OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: March in California† (n‡=21179)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	120	13	13	27	53	80	45	13	13	27	63	100	53
Bipolaris/Drechslera group	13	7	13	13	27	40	8	7	13	13	27	50	12
Chaetomium	67	7	13	13	27	40	11	8	13	13	27	50	19
Cladosporium	6,200	89	160	430	1,100	1,800	95	110	210	610	1,700	2,800	97
Curvularia	-	7	12	13	27	40	2	7	13	13	27	53	6
Nigrospora	27	7	10	13	13	27	4	7	13	13	27	53	9
Other brown	13	11	13	13	27	53	30	13	13	13	40	53	34
Penicillium/Aspergillus types	750	53	53	160	480	750	80	53	100	210	610	1,000	84
Stachybotrys	-	7	13	13	27	67	3	7	13	13	33	67	4
Torula	-	8	13	13	40	67	7	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	1,400	27	53	160	480	850	78	25	53	110	370	700	71
Basidiospores	3,600	67	130	430	1,500	2,800	96	53	80	270	1,000	2,400	93
Oidium	330	13	13	17	53	80	22	13	13	13	47	75	19
Rusts	67	13	13	13	48	80	22	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	560	13	13	27	67	110	54	13	13	40	110	210	68
§ TOTAL SPORES/m3	13,000												

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

§ 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: 21503001-1

Date of Sampling: 03-16-2015
 Date of Receipt: 03-17-2015
 Date of Report: 03-18-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21503001-1TM09OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				120	7 - 40 - 610	45
Ascospores				1,400	13 - 210 - 6,000	76
Basidiospores				3,600	17 - 440 - 24,000	92
Bipolaris/Drechslera group				13	7 - 13 - 250	16
Chaetomium				67	7 - 13 - 160	9
Cladosporium				6,200	27 - 480 - 10,000	90
Nigrospora				27	7 - 13 - 240	16
Oidium				330	7 - 13 - 210	11
Other brown				13	7 - 13 - 130	24
Penicillium/Aspergillus types				750	13 - 170 - 2,700	68
Rusts				67	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes				560	7 - 53 - 920	64
Total				13,000		

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

Indoor Samples

Location: 21503001-1TM10

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 4 Result: 5.3667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1538	dF: 12 Result: 0.6189 Critical value: 0.4965 Outside Similar: Yes	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Cladosporium				210
	Total				210

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21503001-1

Date of Sampling: 03-16-2015
 Date of Receipt: 03-17-2015
 Date of Report: 03-18-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21503001-1TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 5.3667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected				
				< 13

Location: 21503001-1TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 5.3667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5000	dF: 12 Result: -0.0420 Critical value: 0.4965 Outside Similar: No	Score: 107 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Oidium				13
Other brown				13
Rusts				13
Smuts, Periconia, Myxomycetes				13
Total				53

Location: 21503001-1TM13

% 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: 4 Result: 5.3667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4000	dF: 12 Result: 0.4161 Critical value: 0.4965 Outside Similar: No	Score: 107 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Oidium				13
Penicillium/Aspergillus types				53
Smuts, Periconia, Myxomycetes				40
Total				110

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21503001-1

Date of Sampling: 03-16-2015
 Date of Receipt: 03-17-2015
 Date of Report: 03-18-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21503001-1TM14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 5.3667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected				< 13

* 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: 21503001-1

Date of Sampling: 03-16-2015
 Date of Receipt: 03-17-2015
 Date of Report: 03-18-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21503001-1TM09OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					9	120
Bipolaris/Drechslera group					1	13
Chaetomium					5	67
Cladosporium					116	6,200
Curvularia					ND	< 13
Nigrospora					2	27
Other brown					1	13
Penicillium/Aspergillus types†					14	750
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					27	1,400
Basidiospores					68	3,600
Oidium					25	330
Rusts					5	67
Smuts, Periconia, Myxomycetes					42	560
Total						13,200

Location: 21503001-1TM10

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					4	210
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						213

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			107
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
Final MoldSCORE			107

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21503001-1

Date of Sampling: 03-16-2015
 Date of Receipt: 03-17-2015
 Date of Report: 03-18-2015

MoldSCORE™: Spore Trap Report

Location: 21503001-1TM11

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

Location: 21503001-1TM12

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					ND	< 13	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Other brown	█				1	13	█			105
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					ND	< 13	█			100
Oidium	█				1	13	█			105
Rusts					1	13	█			105
Smuts, Periconia, Myxomycetes	█				1	13	█			102
Total						53				Final MoldSCORE 107

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21503001-1

Date of Sampling: 03-16-2015
 Date of Receipt: 03-17-2015
 Date of Report: 03-18-2015

MoldSCORE™: Spore Trap Report

Location: 21503001-1TM13

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†	█				1	53				107
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Oidium	█				1	13				104
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes	█				3	40				107
Total						107	Final MoldSCORE 107			

Location: 21503001-1TM14

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: 21503001-1

Date of Sampling: 03-16-2015
Date of Receipt: 03-17-2015
Date of Report: 03-18-2015

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: 21503001-1
EML ID: 1341353

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 03-24-2015

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: 21503001-1Date of Sampling: 03-20-2015
Date of Receipt: 03-23-2015
Date of Report: 03-24-2015**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21503001-1TM15OUT		21503001-1TM16		21503001-1TM17	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6135298-1		6135299-1		6135300-1	
Analysis Date:	03/24/2015		03/24/2015		03/24/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13				
Ascospores	1	53				
Basidiospores	25	1,300			1	53
Chaetomium	6	80				
Cladosporium	69	3,700	1	53		
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium	2	27				
Other brown						
Other colorless						
Penicillium/Aspergillus types†	3	160				
Pithomyces						
Rusts	10	130	1	13		
Smuts, Periconia, Myxomycetes	56	750	13	170	1	13
Stachybotrys						
Stemphylium						
Torula	1	13				
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	53		< 13		13	
Pollen/m3	1,000		13		93	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		6,200		240		67

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21503001-1

Date of Sampling: 03-20-2015
 Date of Receipt: 03-23-2015
 Date of Report: 03-24-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21503001-1TM18		21503001-1TM19		21503001-1TM20	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6135301-1		6135302-1		6135303-1	
Analysis Date:	03/24/2015		03/24/2015		03/24/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other brown			1	13		
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	4	53	1	13	4	53
Stachybotrys						
Stemphylium					1	13
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		13		< 13	
Pollen/m3	13		13		13	
Skin cells (1-4+)	1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		53		27		67

Comments:

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21503001-1

Date of Sampling: 03-20-2015
Date of Receipt: 03-23-2015
Date of Report: 03-24-2015

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21503001-1TM15OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: March in California† (n‡=21179)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	13	13	13	27	53	80	45	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	40	8	7	13	13	27	50	12
Chaetomium	80	7	13	13	27	40	11	8	13	13	27	50	19
Cladosporium	3,700	89	160	430	1,100	1,800	95	110	210	610	1,700	2,800	97
Curvularia	-	7	12	13	27	40	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Other brown	-	11	13	13	27	53	30	13	13	13	40	53	34
Penicillium/Aspergillus types	160	53	53	160	480	750	80	53	100	210	610	1,000	84
Stachybotrys	-	7	13	13	27	67	3	7	13	13	33	67	4
Stemphylium	-	7	13	13	27	40	7	7	13	13	27	40	9
Torula	13	8	13	13	40	67	7	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	53	27	53	160	480	850	78	25	53	110	370	700	71
Basidiospores	1,300	67	130	430	1,500	2,800	96	53	80	270	1,000	2,400	93
Oidium	27	13	13	17	53	80	22	13	13	13	47	75	19
Rusts	130	13	13	13	48	80	22	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	750	13	13	27	67	110	54	13	13	40	110	210	68
§ TOTAL SPORES/m3	6,200												

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

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

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

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

‡n = number of samples used to calculate data.

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21503001-1

Date of Sampling: 03-20-2015
 Date of Receipt: 03-23-2015
 Date of Report: 03-24-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21503001-1TM15OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				13	7 - 40 - 610	45
Ascospores				53	13 - 210 - 6,000	76
Basidiospores				1,300	17 - 440 - 24,000	92
Chaetomium				80	7 - 13 - 160	9
Cladosporium				3,700	27 - 480 - 10,000	90
Oidium				27	7 - 13 - 210	11
Penicillium/Aspergillus types				160	13 - 170 - 2,700	68
Rusts				130	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes				750	7 - 53 - 920	64
Torula				13	7 - 13 - 170	9
Total				6,200		

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

Indoor Samples

Location: 21503001-1TM16

% 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: 1.9333 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.6515 Critical value: 0.5515 Outside Similar: Yes	Score: 128 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Cladosporium				53
	Rusts				13
	Smuts, Periconia, Myxomycetes				170
	Total				240

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21503001-1

Date of Sampling: 03-20-2015
 Date of Receipt: 03-23-2015
 Date of Report: 03-24-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21503001-1TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 4 Result: 1.9333 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.6273 Critical value: 0.5515 Outside Similar: Yes	Score: 104 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Smuts, Periconia, Myxomycetes					13
Total					67

Location: 21503001-1TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 1.9333 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.5182 Critical value: 0.5515 Outside Similar: No	Score: 109 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					53
Total					53

Location: 21503001-1TM19

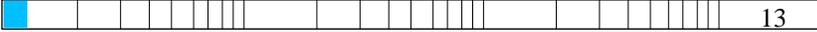
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 1.9333 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.1773 Critical value: 0.5273 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Other brown					13
Smuts, Periconia, Myxomycetes					13
Total					27

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21503001-1

Date of Sampling: 03-20-2015
 Date of Receipt: 03-23-2015
 Date of Report: 03-24-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21503001-1TM20

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 4 Result: 1.9333 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.2114 Critical value: 0.5273 Outside Similar: No	Score: 114 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					53
Stemphylium					13
Total					67

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

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

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

**** 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: 21503001-1

Date of Sampling: 03-20-2015
 Date of Receipt: 03-23-2015
 Date of Report: 03-24-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21503001-1TM15OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					1	13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					6	80
Cladosporium					69	3,700
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					3	160
Stachybotrys					ND	< 13
Torula					1	13
Seldom found growing indoors**						
Ascospores					1	53
Basidiospores					25	1,300
Oidium					2	27
Rusts					10	130
Smuts, Periconia, Myxomycetes					56	750
Total						6,240

Location: 21503001-1TM16

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					1	53
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					ND	< 13
Basidiospores					ND	< 13
Rusts					1	13
Smuts, Periconia, Myxomycetes					13	170
Total						240

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
			103
			128
Final MoldSCORE			128

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21503001-1

Date of Sampling: 03-20-2015
 Date of Receipt: 03-23-2015
 Date of Report: 03-24-2015

MoldSCORE™: Spore Trap Report

Location: 21503001-1TM17

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					ND	< 13	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores	█				1	53	█			104
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes	█				1	13	█			101
Total						67				Final MoldSCORE 104

Location: 21503001-1TM18

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					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	█				4	53	█			109
Total						53				Final MoldSCORE 109

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21503001-1

Date of Sampling: 03-20-2015
 Date of Receipt: 03-23-2015
 Date of Report: 03-24-2015

MoldSCORE™: Spore Trap Report

Location: 21503001-1TM19

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				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown	█				1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes	█				1	13				102
Total						27				Final MoldSCORE 107

Location: 21503001-1TM20

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
Stemphylium	█				1	13				105
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes	█				4	53				109
Total						67				Final MoldSCORE 114

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21503001-1

Date of Sampling: 03-20-2015
Date of Receipt: 03-23-2015
Date of Report: 03-24-2015

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: 21403001-1
EML ID: 1345625

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 04-01-2015

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: 21403001-1

Date of Sampling: 03-30-2015
Date of Receipt: 04-01-2015
Date of Report: 04-02-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21503001-1TM21OUT		21503001-1TM22		21503001-1TM23	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6158803-1		6158804-1		6158805-1	
Analysis Date:	04/01/2015		04/01/2015		04/01/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	3	40				
Ascospores						
Basidiospores	2	110	1	53		
Botrytis						
Chaetomium	1	13				
Cladosporium	50	2,700				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium	65	3,500	3	40		
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts	27	1,400				
Smuts, Periconia, Myxomycetes	101	5,400	9	120		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	67		< 13		< 13	
Pollen/m3	2,300		27		13	
Skin cells (1-4+)	< 1+		1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		13.000		210		< 13

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
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 Re: 21403001-1

Date of Sampling: 03-30-2015
 Date of Receipt: 04-01-2015
 Date of Report: 04-02-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21503001-1TM24		21503001-1TM25		21503001-1TM26	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6158806-1		6158807-1		6158808-1	
Analysis Date:	04/01/2015		04/01/2015		04/01/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Botrytis						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts	4	53	10	130		
Smuts, Periconia, Myxomycetes	2	27				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		1+		2+	
Hyphal fragments/m3	13		< 13		< 13	
Pollen/m3	93		13		< 13	
Skin cells (1-4+)	1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		80		130		< 13

Comments:

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

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

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

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Date of Sampling: 03-30-2015
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MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21503001-1TM21OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: March in California† (n‡=21179)						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	53	80	45	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	40	8	7	13	13	27	50	12
Chaetomium	13	7	13	13	27	40	11	8	13	13	27	50	19
Cladosporium	2,700	89	160	430	1,100	1,800	95	110	210	610	1,700	2,800	97
Curvularia	-	7	12	13	27	40	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Penicillium/Aspergillus types	-	53	53	160	480	750	80	53	100	210	610	1,000	84
Stachybotrys	-	7	13	13	27	67	3	7	13	13	33	67	4
Torula	-	8	13	13	40	67	7	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	-	27	53	160	480	850	78	25	53	110	370	700	71
Basidiospores	110	67	130	430	1,500	2,800	96	53	80	270	1,000	2,400	93
Oidium	3,500	13	13	17	53	80	22	13	13	13	47	75	19
Rusts	1,400	13	13	13	48	80	22	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	5,400	13	13	27	67	110	54	13	13	40	110	210	68
§ TOTAL SPORES/m3	13,000												

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

§ 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.

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Date of Sampling: 03-30-2015
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21503001-1TM21OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				40	7 - 40 - 610	45
Ascospores				< 13	13 - 210 - 6,000	76
Basidiospores				110	17 - 440 - 24,000	92
Chaetomium				13	7 - 13 - 160	9
Cladosporium				2,700	27 - 480 - 10,000	90
Oidium				3,500	7 - 13 - 210	11
Penicillium/Aspergillus types				< 13	13 - 170 - 2,700	68
Rusts				1,400	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes				5,400	7 - 53 - 920	64
Total				13,000		

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

Indoor Samples

Location: 21503001-1TM22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 4.4000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.6000	dF: 7 Result: 0.6250 Critical value: 0.6786 Outside Similar: No	Score: 107 Result: Low
Species Detected	Spores/m3			
	<100	1K	10K	>100K
Basidiospores				53
Oidium				40
Smuts, Periconia, Myxomycetes				120
Total				210

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21503001-1TM23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 4.4000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected				
		< 13		

Location: 21503001-1TM24

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 4.4000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.5000 Critical value: 0.6786 Outside Similar: No	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Rusts		53		
Smuts, Periconia, Myxomycetes		27		
Total		80		

Location: 21503001-1TM25

% 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: 4.4000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.3125 Critical value: 0.6786 Outside Similar: No	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Rusts		130		
Total		130		

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21503001-1TM26

% 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: 4.4000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected				< 13

* 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.

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MoldSCORE™: Spore Trap Report

Outdoor Sample: 21503001-1TM21OUT

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					1	13
Cladosporium					50	2,700
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					2	110
Oidium					65	3,500
Rusts					27	1,400
Smuts, Periconia, Myxomycetes					101	5,400
Total						13,120

Location: 21503001-1TM22

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
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					ND	< 13
Basidiospores					1	53
Oidium					3	40
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					9	120
Total						213

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

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MoldSCORE™: Spore Trap Report

Location: 21503001-1TM23

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

Location: 21503001-1TM24

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					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	█				4	53	█			118
Smuts, Periconia, Myxomycetes	█				2	27	█			100
Total						80				Final MoldSCORE 100

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MoldSCORE™: Spore Trap Report

Location: 21503001-1TM25

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					ND	< 13	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					ND	< 13	█			100
Rusts					10	130	█	█		146
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						133				
							Final MoldSCORE			100

Location: 21503001-1TM26

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

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MoldSCORE™: Spore Trap Report

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

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

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

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

