



HYGIENETECH

Hygiene Technologies International, Inc.

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December 18, 2014

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

Document No. 21411001.1

Attention: David Gau

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

Dear Mr. Gau:

On November 10, 17, 21, and 26, 2014, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted limited fungal growth exposure assessment surveys involving 22 randomly selected areas located within the California State Board of Equalization (BOE) building. The findings of the surveys, along with the analytical data, conclusions, and recommendations when applicable, appear below.

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

As presented in Table 21411001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Epicoccum*, *Nigrospora*, rusts, smuts, and/or *Ulocladium*. In the indoor areas tested, the data showed that airborne fungal spores were either not detected at or above the laboratory detection limit indicated or were detected at low airborne concentrations. The fungal spore types found indoor included *Alternaria*, ascospores, basidiospores, *Bipolaris/Drechslera* group, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Nigrospora*, other brown, rusts, and/or smuts. The distribution of fungal spore types detected in the surveyed areas was consistent with those found outdoors, and the overall data within the tested areas were well below the overall outdoor data recorded. These data are considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

Be advised that the data provided in this report only represent limited fungal growth and exposure potentials that existed at the time these surveys were performed and at the precise sample locations

Mr. David Gau
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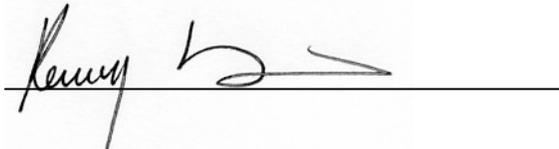


indicated. Note that fungal growth and exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, or other factors. Also be advised that additional fungal growth may exist at one or more locations in the structure that 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 horizontal line.

Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

**TABLE 21411001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
NOVEMBER 10, 17, 21, AND 26, 2014**

Page 1

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

SAMPLE NUMBER	21411001-1 TM01OUT	21411001-1 TM02	21411001-1 TM03	21411001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet north-northeast of main entrance; approximately five feet above ground/Normal outdoor activities	4 th Floor; Column K17 area; about three feet west of Column K17; approximately five feet above floor/Normal office activities	7 th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	10 th Floor; Column J18; about three feet north of Column J18; approximately five feet above floor/Normal office activities
DATE	11/10/14	11/10/14	11/10/14	11/10/14
START/STOP	08:52:00/08:57:00	09:01:00/09:06:00	09:10:00/09:15:00	09:18:00/09:23:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	200			
Ascospores	53			
Basidiospores	1,800	110	53	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	3,700	53		
Curvularia				
Epicoccum	13			
Fusarium				
Nigrospora	93		13	
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types	320			
Pithomyces				
Rusts				13
Smuts (Periconia, Myxomycetes)	250	13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium	27			
Hyphal fragments	170	<13	13	<13
Background debris*	3+	1+	2+	2+
TOTAL**	6,500	170	67	13

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

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

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**TABLE 21411001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
NOVEMBER 10, 17, 21, AND 26, 2014**

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

SAMPLE NUMBER	21411001-1 TM05	21411001-1 TM06	21411001-1 TM07OUT	21411001-1 TM08
SAMPLING LOCATION/ACTIVITIES	11 th Floor; Column J21 area; Cubicle 11; approximately five feet above floor/Normal office activities	14 th Floor; Copy Room 1405; about center; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet west of building; approximately five feet above floor/Normal outdoor activities	6 th Floor; Column K21 area; about two feet northwest of Column K21; approximately five feet above floor/Normal office activities
DATE	11/10/14	11/10/14	11/17/14	11/17/14
START/STOP	09:32:00/09:37:00	09:40:00/09:45:00	14:54:00/14:59:00	15:03:00/15:08:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			190	
Ascospores			370	
Basidiospores	53		850	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium			13	
Cladosporium	53	160	23,000	110
Curvularia				
Epicoccum				
Fusarium				
Nigrospora			160	
Oidium				
Other brown				
Penicillium/Aspergillus types			750	
Pithomyces				
Rusts			27	
Smuts (Periconia, Myxomycetes)	13		67	
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	27	<13	360	13
Background debris*	1+	1+	2+	1+
TOTAL**	120	160	25,000	110

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

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

SAMPLE NUMBER	21411001-1 TM09	21411001-1 TM10	21411001-1 TM11	21411001-1 TM12
SAMPLING LOCATION/ACTIVITIES	9 th Floor; Conference Room 903; about 10 feet northeast of entry door; approximately five feet above floor/Normal office activities	15 th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	20 th Floor; Break Room 2008; about center; approximately five feet above floor/Normal restroom activities	24 th Floor; northern corridor adjacent to Electrical Room entry door; approximately five feet above floor/Normal office activities
DATE	11/17/14	11/17/14	11/17/14	11/17/14
START/STOP	15:11:00/15:16:00	15:19:00/15:24:00	15:27:00/15:32:00	15:37:00/15:42:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				13
Arthrimum				
Ascospores				
Basidiospores		53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		530	53	160
Curvularia				
Epicoccum				
Fusarium				
Nigrospora	13			13
Oidium				
Other brown			13	
Penicillium/Aspergillus types			27	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)			13	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	13	<13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	13	600	110	190

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

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

SAMPLE NUMBER	21411001-1 TM13OUT	21411001-1 TM14	21411001-1 TM15	21411001-1 TM16
SAMPLING LOCATION/ACTIVITIES	Outdoors; southwestern exterior corner of the building; approximately five feet above floor/Normal outdoor activities	2 nd Floor; Column K19 area; about 10 feet west of Column K19; approximately five feet above floor/Normal office activities	8 th Floor; area between Column L18 and M18; Cubicle 97; about center; approximately five feet above floor/Normal office activities	16 th Floor; area between Column L22 and M22; about center; approximately five feet above floor/Normal office activities
DATE	11/21/14	11/21/14	11/21/14	11/21/14
START/STOP	15:14:00/15:19:00	15:27:00/15:32:00	15:36:00/15:41:00	15:46:00/15:51:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	27	13		
Ascospores	1,300			
Basidiospores	430	53		53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	3.300			53
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types	430			
Pithomyces				
Rusts				27
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	<13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	5,400	67	<13	130

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

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

SAMPLE NUMBER	21411001-1 TM17	21411001-1 TM18	21411001-1 TM19	21411001-1 TM20OUT
SAMPLING LOCATION/ACTIVITIES	18 th Floor; Room 1821; entry area; approximately five feet above floor/Normal office activities	21 st Floor; Elevator Lobby; approximately five feet above floor/Normal office activities	23 rd Floor; northern corridor adjacent to Storage Room 23D, approximately five feet above floor/Normal office activities	Outdoors; southeastern exterior corner of building; approximately five feet above ground/Normal outdoor activities
DATE	11/21/14	11/21/14	11/21/14	11/26/14
START/STOP	15:54:00/15:59:00	16:02:00/16:07:00	16:10:00/16:15:00	14:01:00/14:06:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	27
Ascospores		110	53	1,300
Basidiospores	53			20,000
Bipolaris/Drechslera group		13		
Botrytis				
Chaetomium				
Cladosporium		110		2,700
Curvularia				
Epicoccum				27
Fusarium				
Myrothecium				
Nigrospora				27
Oidium				
Other brown	13			
Penicillium/Aspergillus types				1,200
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				110
Stemphylium				
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	<13	13
Background debris*	1+	2+	2+	3+
TOTAL**	67	230	67	26,000

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

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

SAMPLE NUMBER	21411001-1 TM21	21411001-1 TM22	21411001-1 TM23	21411001-1 TM24
SAMPLING LOCATION/ACTIVITIES	1 st Floor; Supply Room 128; about center; approximately five feet above floor/Normal office activities	3 rd Floor; Elevator Lobby; about center; approximately five feet above floor/ Normal office activities	5 th Floor; Conference Room 503; entry area; approximately five feet above floor/Normal office activities	17 th Floor; Column N20 area; about one foot south of Column N20; approximately feet above floor/Normal office activities
DATE	11/26/14	11/26/14	11/26/14	11/26/14
START/STOP	16:05:00/16:10:00	16:14:00/16:19:00	14:24:00/14:29:00	14:34:00/14:39:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		13		
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	110	53	53	
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types			53	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	13	<13	<13
Background debris*	2+	2+	1+	1+
TOTAL**	110	80	110	<13

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

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SAMPLE NUMBER	21411001-1 TM25	21411001-1 TM26		
SAMPLING LOCATION/ACTIVITIES	19 th Floor; Break Room 1915; about center; approximately five feet above floor/Normal office activities	22 nd Floor; Column N21 area; about one foot south of Column N21; approximately five feet above floor/Normal office activities	This column intentionally left blank	This column intentionally left blank
DATE	11/26/14	11/26/14		
START/STOP	14:42:00/14:47:00	14:51:00/14:56:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Ascospores		53		
Basidiospores		53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Helicoma				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types		53		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13		
Background debris*	1+	2+		
TOTAL **	<13	160		

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Report for:

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

Regarding: Project: 21411001-1
EML ID: 1288885

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 11-11-2014

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21411001-1Date of Sampling: 11-10-2014
Date of Receipt: 11-10-2014
Date of Report: 11-11-2014**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21411001-1 TM01 OUT		21411001-1 TM02		21411001-1 TM03	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5869482-1		5869483-1		5869484-1	
Analysis Date:	11/11/2014		11/11/2014		11/11/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	15	200				
Ascospores	1	53				
Basidiospores	34	1,800	2	110	1	53
Bipolaris/Drechslera group	1	13				
Chaetomium						
Cladosporium	70	3,700	1	53		
Curvularia						
Epicoccum	1	13				
Fusarium						
Myrothecium						
Nigrospora	7	93			1	13
Other colorless						
Penicillium/Aspergillus types†	6	320				
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	19	250	1	13		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium	2	27				
Zygomycetes						
Background debris (1-4+)††	3+		1+		2+	
Hyphal fragments/m3	170		< 13		13	
Pollen/m3	27		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		6,500		170		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: 21411001-1

Date of Sampling: 11-10-2014
Date of Receipt: 11-10-2014
Date of Report: 11-11-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21411001-1 TM04		21411001-1 TM05		21411001-1 TM06	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5869485-1		5869486-1		5869487-1	
Analysis Date:	11/11/2014		11/11/2014		11/11/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores			1	53	3	160
Bipolaris/Drechslera group						
Chaetomium						
Cladosporium			1	53		
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts	1	13				
Smuts, Periconia, Myxomycetes			1	13		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		1+		1+	
Hyphal fragments/m3	< 13		27		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		13		120		160

Comments:

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

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

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Re: 21411001-1

Date of Sampling: 11-10-2014
Date of Receipt: 11-10-2014
Date of Report: 11-11-2014

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21411001-1 TM01 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: November in California† (n‡=15278)						Typical Outdoor Data for: The entire year in California† (n‡=200698)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	200	13	13	27	67	120	57	13	13	27	67	110	53
Bipolaris/Drechslera group	13	8	13	13	27	53	14	7	13	13	27	40	12
Chaetomium	-	11	13	13	33	53	19	8	13	13	27	47	19
Cladosporium	3,700	170	370	1,100	3,100	5,800	98	110	210	610	1,600	2,800	97
Curvularia	-	7	13	13	27	53	8	7	13	13	27	53	6
Epicoccum	13	8	13	13	40	53	21	8	13	13	33	53	19
Nigrospora	93	8	13	13	40	67	14	7	13	13	27	53	8
Penicillium/Aspergillus types	320	53	110	320	870	1,500	89	53	100	210	590	1,000	84
Stachybotrys	-	12	13	13	40	67	5	7	13	13	33	67	4
Torula	-	10	13	13	40	67	9	8	13	13	40	67	12
Ulocladium	27	11	13	13	27	53	14	8	13	13	27	40	10
Seldom found growing indoors**													
Ascospores	53	20	53	120	500	1,100	71	25	53	110	360	690	71
Basidiospores	1,800	53	110	430	2,400	6,000	95	53	80	260	990	2,300	93
Rusts	-	13	13	13	53	93	28	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	250	13	13	40	110	190	71	13	13	40	110	210	68
§ TOTAL SPORES/m3	6,500												

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

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

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

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

‡n = number of samples used to calculate data.

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21411001-1

Date of Sampling: 11-10-2014
 Date of Receipt: 11-10-2014
 Date of Report: 11-11-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21411001-1 TM01 OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				200	7 - 40 - 610	45
Ascospores				53	13 - 210 - 6,000	77
Basidiospores				1,800	19 - 450 - 24,000	92
Bipolaris/Drechslera group				13	7 - 13 - 250	16
Cladosporium				3,700	27 - 460 - 10,000	90
Epicoccum				13	7 - 22 - 340	24
Nigrospora				93	7 - 13 - 240	16
Penicillium/Aspergillus types				320	13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes				250	7 - 53 - 920	63
Ulocladium				27	7 - 13 - 110	4
Total				6,500		

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

Indoor Samples

Location: 21411001-1 TM02

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 4 Result: 1.5600 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.7727 Critical value: 0.5515 Outside Similar: Yes	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				110
	Cladosporium				53
	Smuts, Periconia, Myxomycetes				13
	Total				170

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21411001-1

Date of Sampling: 11-10-2014
 Date of Receipt: 11-10-2014
 Date of Report: 11-11-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21411001-1 TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 4 Result: 1.5600 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.4636 Critical value: 0.5515 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Nigrospora					13
Total					67

Location: 21411001-1 TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 1.5600 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: 11 Result: 0.1273 Critical value: 0.5273 Outside Similar: No	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Rusts					13
Total					13

Location: 21411001-1 TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 4 Result: 1.5600 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.7818 Critical value: 0.5515 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
Total					120

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21411001-1

Date of Sampling: 11-10-2014
 Date of Receipt: 11-10-2014
 Date of Report: 11-11-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21411001-1 TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 4 Result: 1.5600 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.5788 Critical value: 0.5515 Outside Similar: Yes	Score: 112 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					160
Total					160

* 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: 21411001-1

Date of Sampling: 11-10-2014
 Date of Receipt: 11-10-2014
 Date of Report: 11-11-2014

MoldSCORE™: Spore Trap Report

Location: 21411001-1 TM03

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					ND	< 13	█			100
Curvularia					ND	< 13	█			100
Nigrospora	█				1	13	█			105
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores	█				1	53	█			104
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						67				
							Final MoldSCORE			105

Location: 21411001-1 TM04

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21411001-1

Date of Sampling: 11-10-2014
 Date of Receipt: 11-10-2014
 Date of Report: 11-11-2014

MoldSCORE™: Spore Trap Report

Location: 21411001-1 TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	█				1	53				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				102
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes	█				1	13				102
Total						120				Final MoldSCORE 102

Location: 21411001-1 TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores	█				3	160				112
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						160				Final MoldSCORE 112

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21411001-1

Date of Sampling: 11-10-2014
Date of Receipt: 11-10-2014
Date of Report: 11-11-2014

MoldSCORE™: Spore Trap Report

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

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

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

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



Report for:

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

Regarding: Project: 21411001-1
EML ID: 1292182

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 11-18-2014

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21411001-1

Date of Sampling: 11-17-2014
Date of Receipt: 11-17-2014
Date of Report: 11-18-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21411001-1 TM07 OUT		21411001-1 TM08		21411001-1 TM09	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5885412-1		5885413-1		5885414-1	
Analysis Date:	11/18/2014		11/18/2014		11/18/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	14	190				
Ascospores	7	370				
Basidiospores	16	850				
Chaetomium	1	13				
Cladosporium	424	23,000	2	110		
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora	12	160			1	13
Other brown						
Other colorless						
Penicillium/Aspergillus types†	14	750				
Pithomyces						
Rusts	2	27				
Smuts, Periconia, Myxomycetes	5	67				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		1+		2+	
Hyphal fragments/m3	360		13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		25,000		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: 21411001-1

Date of Sampling: 11-17-2014
Date of Receipt: 11-17-2014
Date of Report: 11-18-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21411001-1 TM10		21411001-1 TM11		21411001-1 TM12	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5885415-1		5885416-1		5885417-1	
Analysis Date:	11/18/2014		11/18/2014		11/18/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13
Ascospores						
Basidiospores	1	53				
Chaetomium						
Cladosporium	10	530	1	53	3	160
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora					1	13
Other brown			1	13		
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces	1	13	2	27		
Rusts						
Smuts, Periconia, Myxomycetes			1	13		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	13		< 13		< 13	
Pollen/m3	< 13		< 13		13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		600		110		190

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21411001-1

Date of Sampling: 11-17-2014
Date of Receipt: 11-17-2014
Date of Report: 11-18-2014

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21411001-1 TM07 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: November in California† (n‡=15278)						Typical Outdoor Data for: The entire year in California† (n‡=200698)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	190	13	13	27	67	120	57	13	13	27	67	110	53
Bipolaris/Drechslera group	-	8	13	13	27	53	14	7	13	13	27	40	12
Chaetomium	13	11	13	13	33	53	19	8	13	13	27	47	19
Cladosporium	23,000	170	370	1,100	3,100	5,800	98	110	210	610	1,600	2,800	97
Curvularia	-	7	13	13	27	53	8	7	13	13	27	53	6
Nigrospora	160	8	13	13	40	67	14	7	13	13	27	53	8
Other brown	-	13	13	13	40	53	34	13	13	13	40	53	34
Penicillium/Aspergillus types	750	53	110	320	870	1,500	89	53	100	210	590	1,000	84
Pithomyces	-	7	13	13	27	47	4	7	13	13	27	53	4
Stachybotrys	-	12	13	13	40	67	5	7	13	13	33	67	4
Torula	-	10	13	13	40	67	9	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	370	20	53	120	500	1,100	71	25	53	110	360	690	71
Basidiospores	850	53	110	430	2,400	6,000	95	53	80	260	990	2,300	93
Rusts	27	13	13	13	53	93	28	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	67	13	13	40	110	190	71	13	13	40	110	210	68
§ TOTAL SPORES/m3	25,000												

†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: 21411001-1

Date of Sampling: 11-17-2014
 Date of Receipt: 11-17-2014
 Date of Report: 11-18-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21411001-1 TM07 OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				190	7 - 40 - 610	45
Ascospores				370	13 - 210 - 6,000	77
Basidiospores				850	19 - 450 - 24,000	92
Chaetomium				13	7 - 13 - 160	9
Cladosporium				23,000	27 - 460 - 10,000	90
Nigrospora				160	7 - 13 - 240	16
Penicillium/Aspergillus types				750	13 - 170 - 2,700	68
Rusts				27	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes				67	7 - 53 - 920	63
Total				25,000		

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: 21411001-1 TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 2.7143 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6500 Critical value: 0.5833 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Cladosporium				110
	Total				110

Location: 21411001-1 TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 2.7143 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.2750 Critical value: 0.5833 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Nigrospora				13
	Total				13

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21411001-1

Date of Sampling: 11-17-2014
 Date of Receipt: 11-17-2014
 Date of Report: 11-18-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21411001-1 TM10

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 4 Result: 2.7143 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.4909 Critical value: 0.5515 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					530
Pithomyces					13
Total					600

Location: 21411001-1 TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 2.7143 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3077	dF: 11 Result: -0.0205 Critical value: 0.5273 Outside Similar: No	Score: 118 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Other brown					13
Pithomyces					27
Smuts, Periconia, Myxomycetes					13
Total					110

Location: 21411001-1 TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 2.7143 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5000	dF: 9 Result: 0.4500 Critical value: 0.5833 Outside Similar: No	Score: 109 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					160
Nigrospora					13
Total					190

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21411001-1

Date of Sampling: 11-17-2014
Date of Receipt: 11-17-2014
Date of Report: 11-18-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21411001-1

Date of Sampling: 11-17-2014
 Date of Receipt: 11-17-2014
 Date of Report: 11-18-2014

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21411001-1 TM07 OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					14	190
Bipolaris/Drechslera group					ND	< 13
Chaetomium					1	13
Cladosporium					424	23,000
Curvularia					ND	< 13
Nigrospora					12	160
Penicillium/Aspergillus types†					14	750
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					7	370
Basidiospores					16	850
Rusts					2	27
Smuts, Periconia, Myxomycetes					5	67
Total						25,040

Location: 21411001-1 TM08

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					2	110
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						107

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21411001-1

Date of Sampling: 11-17-2014
 Date of Receipt: 11-17-2014
 Date of Report: 11-18-2014

MoldSCORE™: Spore Trap Report

Location: 21411001-1 TM09

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

Location: 21411001-1 TM10

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█	█	█		10	530	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Pithomyces	█				1	13	█			105
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores	█				1	53	█			104
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						600	Final MoldSCORE 105			

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21411001-1

Date of Sampling: 11-17-2014
 Date of Receipt: 11-17-2014
 Date of Report: 11-18-2014

MoldSCORE™: Spore Trap Report

Location: 21411001-1 TM11

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				1	53	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Other brown	█				1	13	█			105
Penicillium/Aspergillus types†					ND	< 13	█			100
Pithomyces	█				2	27	█			111
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes	█				1	13	█			103
Total						107				Final MoldSCORE 118

Location: 21411001-1 TM12

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria	█				1	13	█			105
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				3	160	█			100
Curvularia					ND	< 13	█			100
Nigrospora	█				1	13	█			105
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						187				Final MoldSCORE 109

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21411001-1

Date of Sampling: 11-17-2014
Date of Receipt: 11-17-2014
Date of Report: 11-18-2014

MoldSCORE™: Spore Trap Report

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

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

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

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



Report for:

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

Regarding: Project: 21411001-1
EML ID: 1294810

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 11-25-2014

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21411001-1Date of Sampling: 11-21-2014
Date of Receipt: 11-24-2014
Date of Report: 11-25-2014**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21411001-1 TM13 OUT		21411001-1 TM14		21411001-1 TM15		21411001-1 TM16	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	5897771-1		5897772-1		5897773-1		5897774-1	
Analysis Date:	11/25/2014		11/25/2014		11/25/2014		11/25/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27	1	13				
Ascospores	24	1,300						
Basidiospores	8	430	1	53			1	53
Bipolaris/Drechslera group								
Chaetomium								
Cladosporium	61	3,300					1	53
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†	8	430						
Pithomyces								
Rusts							2	27
Smuts, Periconia, Myxomycetes								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		5,400		67		< 13		130

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: 21411001-1Date of Sampling: 11-21-2014
Date of Receipt: 11-24-2014
Date of Report: 11-25-2014**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21411001-1 TM17		21411001-1 TM18		21411001-1 TM19	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5897775-1		5897776-1		5897777-1	
Analysis Date:	11/25/2014		11/25/2014		11/25/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13
Ascospores			2	110	1	53
Basidiospores	1	53				
Bipolaris/Drechslera group			1	13		
Chaetomium						
Cladosporium			2	110		
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown	1	13				
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		67		230		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: 21411001-1

Date of Sampling: 11-21-2014
Date of Receipt: 11-24-2014
Date of Report: 11-25-2014

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21411001-1 TM13 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: November in California† (n‡=15278)						Typical Outdoor Data for: The entire year in California† (n‡=200698)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	27	13	13	27	67	120	57	13	13	27	67	110	53
Bipolaris/Drechslera group	-	8	13	13	27	53	14	7	13	13	27	40	12
Chaetomium	-	11	13	13	33	53	19	8	13	13	27	47	19
Cladosporium	3,300	170	370	1,100	3,100	5,800	98	110	210	610	1,600	2,800	97
Curvularia	-	7	13	13	27	53	8	7	13	13	27	53	6
Nigrospora	-	8	13	13	40	67	14	7	13	13	27	53	8
Other brown	-	13	13	13	40	53	34	13	13	13	40	53	34
Penicillium/Aspergillus types	430	53	110	320	870	1,500	89	53	100	210	590	1,000	84
Stachybotrys	-	12	13	13	40	67	5	7	13	13	33	67	4
Torula	-	10	13	13	40	67	9	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	1,300	20	53	120	500	1,100	71	25	53	110	360	690	71
Basidiospores	430	53	110	430	2,400	6,000	95	53	80	260	990	2,300	93
Rusts	-	13	13	13	53	93	28	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	-	13	13	40	110	190	71	13	13	40	110	210	68
§ TOTAL SPORES/m3	5,400												

†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: 21411001-1

Date of Sampling: 11-21-2014
 Date of Receipt: 11-24-2014
 Date of Report: 11-25-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21411001-1 TM13 OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				27	7 - 40 - 610	45
Ascospores				1,300	13 - 210 - 6,000	77
Basidiospores				430	19 - 450 - 24,000	92
Cladosporium				3,300	27 - 460 - 10,000	90
Penicillium/Aspergillus types				430	13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes				< 13	7 - 53 - 920	63
Total				5,400		

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: 21411001-1 TM14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 5 Result: 2.3878 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: -0.4250 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Alternaria				13
	Basidiospores				53
	Total				67

Location: 21411001-1 TM15

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 2.3878 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	None Detected				< 13

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21411001-1

Date of Sampling: 11-21-2014
 Date of Receipt: 11-24-2014
 Date of Report: 11-25-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21411001-1 TM16

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 5 Result: 2.3878 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.3000 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Rusts					27
Total					130

Location: 21411001-1 TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 5 Result: 2.3878 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.2000 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Other brown					13
Total					67

Location: 21411001-1 TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 4%	dF: 5 Result: 2.3878 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.6000 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					110
Bipolaris/Drechslera group					13
Cladosporium					110
Total					230

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21411001-1

Date of Sampling: 11-21-2014
 Date of Receipt: 11-24-2014
 Date of Report: 11-25-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21411001-1 TM19

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 5 Result: 2.3878 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.0250 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Ascospores					53
Total					67

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

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

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

**** 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: 21411001-1

Date of Sampling: 11-21-2014
 Date of Receipt: 11-24-2014
 Date of Report: 11-25-2014

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21411001-1 TM13 OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					2	27
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					61	3,300
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					8	430
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					24	1,300
Basidiospores					8	430
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					ND	< 13
Total						5,413

Location: 21411001-1 TM14

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21411001-1

Date of Sampling: 11-21-2014
 Date of Receipt: 11-24-2014
 Date of Report: 11-25-2014

MoldSCORE™: Spore Trap Report

Location: 21411001-1 TM15

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					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: 21411001-1 TM16

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					1	53				104
Rusts					2	27				111
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						133				Final MoldSCORE 104

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21411001-1

Date of Sampling: 11-21-2014
 Date of Receipt: 11-24-2014
 Date of Report: 11-25-2014

MoldSCORE™: Spore Trap Report

Location: 21411001-1 TM17

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium					ND	< 13	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
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	█				1	53	105			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes					ND	< 13	100			
Total						67	Final MoldSCORE 105			

Location: 21411001-1 TM18

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group	█				1	13	105			
Chaetomium					ND	< 13	100			
Cladosporium	█				2	110	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†					ND	< 13	100			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores	█				2	110	122			
Basidiospores					ND	< 13	100			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes					ND	< 13	100			
Total						227	Final MoldSCORE 105			

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21411001-1

Date of Sampling: 11-21-2014
 Date of Receipt: 11-24-2014
 Date of Report: 11-25-2014

MoldSCORE™: Spore Trap Report

Location: 21411001-1 TM19

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

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

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

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

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



Report for:

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

Regarding: Project: 21411001-1
EML ID: 1296631

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 11-28-2014

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21411001-1

Date of Sampling: 11-26-2014
 Date of Receipt: 11-26-2014
 Date of Report: 11-28-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21411001-1 TM20 OUT		21411001-1 TM21		21411001-1 TM22		21411001-1 TM23	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	5906889-1		5906890-1		5906891-1		5906892-1	
Analysis Date:	11/28/2014		11/28/2014		11/28/2014		11/28/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27			1	13		
Ascospores	25	1,300						
Basidiospores	377	20,000						
Chaetomium								
Cladosporium	51	2,700	2	110	1	53	1	53
Curvularia								
Epicoccum	2	27						
Fusarium								
Myrothecium								
Nigrospora	2	27						
Other colorless								
Penicillium/Aspergillus types†	22	1,200					1	53
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	8	110			1	13		
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		2+		2+		1+	
Hyphal fragments/m3	13		< 13		13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+		< 1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		26,000		110		80		110

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: 21411001-1

Date of Sampling: 11-26-2014
 Date of Receipt: 11-26-2014
 Date of Report: 11-28-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21411001-1 TM24		21411001-1 TM25		21411001-1 TM26	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5906893-1		5906894-1		5906895-1	
Analysis Date:	11/28/2014		11/28/2014		11/28/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores					1	53
Basidiospores					1	53
Botrytis						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†					1	53
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+		1+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		13	
Skin cells (1-4+)	< 1+		< 1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		< 13		< 13		160

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: 21411001-1

Date of Sampling: 11-26-2014
Date of Receipt: 11-26-2014
Date of Report: 11-28-2014

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21411001-1 TM20 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: November in California† (n‡=15278)						Typical Outdoor Data for: The entire year in California† (n‡=200698)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	27	13	13	27	67	120	57	13	13	27	67	110	53
Bipolaris/Drechslera group	-	8	13	13	27	53	14	7	13	13	27	40	12
Chaetomium	-	11	13	13	33	53	19	8	13	13	27	47	19
Cladosporium	2,700	170	370	1,100	3,100	5,800	98	110	210	610	1,600	2,800	97
Curvularia	-	7	13	13	27	53	8	7	13	13	27	53	6
Epicoccum	27	8	13	13	40	53	21	8	13	13	33	53	19
Nigrospora	27	8	13	13	40	67	14	7	13	13	27	53	8
Penicillium/Aspergillus types	1,200	53	110	320	870	1,500	89	53	100	210	590	1,000	84
Stachybotrys	-	12	13	13	40	67	5	7	13	13	33	67	4
Torula	-	10	13	13	40	67	9	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	1,300	20	53	120	500	1,100	71	25	53	110	360	690	71
Basidiospores	20,000	53	110	430	2,400	6,000	95	53	80	260	990	2,300	93
Rusts	-	13	13	13	53	93	28	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	110	13	13	40	110	190	71	13	13	40	110	210	68
§ TOTAL SPORES/m3	26,000												

†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: 21411001-1

Date of Sampling: 11-26-2014
 Date of Receipt: 11-26-2014
 Date of Report: 11-28-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21411001-1 TM20 OUT:

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	77
Basidiospores					19 - 450 - 24,000	92
Cladosporium					27 - 460 - 10,000	90
Epicoccum					7 - 22 - 340	24
Nigrospora					7 - 13 - 240	16
Penicillium/Aspergillus types					13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes					7 - 53 - 920	63
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: 21411001-1 TM21

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 3.7143 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.5952 Critical value: 0.6190 Outside Similar: No	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Cladosporium				
	Total				

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21411001-1 TM22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 3.7143 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: 0.1964 Critical value: 0.6190 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
Total					80

Location: 21411001-1 TM23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 3.7143 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.5238 Critical value: 0.6190 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Penicillium/Aspergillus types					53
Total					110

Location: 21411001-1 TM24

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 3.7143 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					< 13

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21411001-1 TM25

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 3.7143 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected				< 13

Location: 21411001-1 TM26

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 3.7143 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: 0.6905 Critical value: 0.6190 Outside Similar: Yes	Score: 107 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Ascospores				53
Basidiospores				53
Penicillium/Aspergillus types				53
Total				160

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

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

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

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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.

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MoldSCORE™: Spore Trap Report

Location: 21411001-1 TM22

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					1	13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					1	53				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					ND	< 13				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores					ND	< 13				
Basidiospores					ND	< 13				
Rusts					ND	< 13				
Smuts, Periconia, Myxomycetes					1	13				
Total						80	Final MoldSCORE 108			

Location: 21411001-1 TM23

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					1	53				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					1	53				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores					ND	< 13				
Basidiospores					ND	< 13				
Rusts					ND	< 13				
Smuts, Periconia, Myxomycetes					ND	< 13				
Total						107	Final MoldSCORE 108			

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MoldSCORE™: Spore Trap Report

Location: 21411001-1 TM24

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					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: 21411001-1 TM25

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



HYGIENE TECH

Hygiene Technologies International, Inc.



362 001296631

(310) 370-2474 FAX
www.hygieneotech.com

Request For Analysis

Project Number/~~Purchase Order~~: 21411001-1 Date Submitted: 11/26/14
 Project Contact: L. Sandhu / K. Hsi Turnaround Required: Normal
 Lab Destination: EMLAB 92K Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21411001-1 TM200K	75L	Air-o-cell	Sproe Trap Analysis (Total Fungi)
21411001-1 TM21	75L	Air-o-cell	
21411001-1 TM22	75L	Air-o-cell	
21411001-1 TM23	75L	Air-o-cell	
21411001-1 TM24	75L	Air-o-cell	
21411001-1 TM25	75L	Air-o-cell	
21411001-1 TM26	75L	Air-o-cell	

Special Instructions: _____

1. Sampled by: Sandhu on 11/26/14 ¹⁴⁰¹ Received by: [Signature]
 2. Relinquished by: Sandhu on 11/26/14 ¹⁶⁵⁰ Received by: _____
 3. Relinquished by: _____ Received by: _____
 Please include signature, date, and time

Lab Use Only: _____