



HYGIENETECH

Hygiene Technologies International, Inc.

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September 19, 2012

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

Document No. 21208001.1

Attention: David Gau

Regarding: Limited Fungal Growth Exposure Assessment Surveys
August 2012 Random Sampling

Dear Mr. Gau:

On August 8, 15, 22, and 31, 2012, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted limited fungal growth exposure assessment surveys involving twenty two 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™ 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 21208001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Bipolaris/Drechslera* group, *Botrytis*, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Epicoccum*, *Nigrospora*, *Oidium*, other brown, rusts, smuts, *Stemphylium*, and/or *Torula*. In the indoor areas tested, the data showed that airborne fungal spores were either not detected at or above the laboratory detection limit indicated or were detected at low airborne concentrations. The fungal spore types found indoor included *Alternaria*, ascospores, basidiospores, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Epicoccum*, other brown, rusts, smuts, and/or *Torula*. The distribution of fungal spore types detected in the surveyed areas was consistent with those found outdoors, and the overall data within the tested areas were well below the overall outdoor data recorded. These data are considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.



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

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

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

A handwritten signature in black ink, appearing to read 'Kenny', followed by a stylized flourish and a horizontal line.

Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 21208001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
AUGUST 8, 15, 22, AND 31, 2012

Page 1

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

SAMPLE NUMBER	21208001-1 TM01OUT	21208001-1 TM02	21208001-1 TM03	21208001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 10 feet west of building; approximately five feet above ground/Normal outdoor activities	2 nd Floor; Elevator Lobby; approximately five feet above floor/Normal office activities	4 th Floor; Conference Room 414; southern portion; about center; approximately five feet above floor/Normal office activities	7 th Floor; Break Room 707; about center; approximately five feet above floor/Normal office activities
DATE	08/08/12	08/08/12	08/08/12	08/08/12
START/STOP	14:34:00/14:39:00	14:43:00/14:48:00	14:51:00/14:56:00	14:58:00/15:03:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Basidiospores	850			53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	93			
Cladosporium	4,300			
Curvularia				
Epicoccum	13			
Fusarium				
Myrothecium				
Nigrospora	93			
Oidium				
Other brown				
Penicillium/Aspergillus types	110			
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	280	93		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	110	27	<13	<13
Background debris*	3+	3+	2+	2+
TOTAL **	3,700	93	<13	53

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

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

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SACRAMENTO, CALIFORNIA
AUGUST 8, 15, 22, AND 31, 2012

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

SAMPLE NUMBER	21208001-1 TM05	21208001-1 TM06	21208001-1 TM07	21208001-1 TM08
SAMPLING LOCATION/ACTIVITIES	11 th Floor; northern hallway; about center; approximately five feet above floor/Normal office activities	17 th Floor; about 15 feet northwest of Column K20; about center; approximately five feet above floor/Normal office activities	20 th Floor; Quiet Room 2004; approximately five feet above floor/Normal office activities	24 th Floor; Room 2420; about center; approximately five feet above floor/Normal office activities
DATE	08/08/12	08/08/12	08/08/12	08/08/12
START/STOP	15:04:00/15:09:00	15:11:00/15:16:00	15:20:00/15:25:00	15:29:00/15:34:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53			
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	53	27	40	13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	13
Background debris*	3+	2+	2+	2+
TOTAL **	110	27	40	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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SACRAMENTO, CALIFORNIA
AUGUST 8, 15, 22, AND 31, 2012**

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

SAMPLE NUMBER	21208001-1 TM09OUT	21208001-1 TM10	21208001-1 TM11	21208001-1 TM12
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 10 feet east of building; approximately five feet above ground/Normal outdoor activities	3 rd Floor; Break Room 320; about center; approximately five feet above floor/Normal office activities	8 th Floor; Column K20 area; Cubicle 31; about center; approximately five feet above floor/Normal office activities	15 th Floor; Elevator Lobby; approximately five feet above floor/Normal office activities
DATE	08/15/12	08/15/12	08/15/12	08/15/12
START/STOP	15:56:00/16:01:00	16:05:00/16:10:00	16:12:00/16:17:00	16:23:00/16:28:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores	110			
Basidiospores	210			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	13			
Cladosporium	430			
Curvularia				
Epicoccum	13	13		
Fusarium				
Myrothecium				
Nigrospora				
Oidium	13			
Other brown	13	13		
Penicillium/Aspergillus types	370			
Pithomyces				
Rusts	13	13		
Smuts (Periconia, Myxomycetes)	270			
Stachybotrys				
Stemphylium	27			
Torula				
Ulocladium				
Hyphal fragments	67	<13	<13	13
Background debris*	3+	2+	2+	3+
TOTAL **	1,500	40	<13	<13

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

SAMPLE NUMBER	21208001-1 TM13	21208001-1 TM14	21208001-1 TM15OUT	21208001-1 TM16
SAMPLING LOCATION/ACTIVITIES	18 th Floor; Conference Room 1808; northern portion; about center; approximately five feet above floor/Normal office activities	22 nd Floor; Quiet Room 2236; western portion; about center; approximately five feet above floor/Normal office activities	Outdoors; about 10 feet south of building; approximately five feet above ground/Normal outdoor activities	5 th Floor; Conference Room 503; about five feet northeast of entry door; approximately five feet above floor/Normal office activities
DATE	08/15/12	08/15/12	08/22/12	08/22/12
START/STOP	16:29:00/16:34:00	16:37:00/16:42:00	09:20:00/09:25:00	09:40:00/09:45:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		53	13	
Arthrinium				
Ascospores			53	
Basidiospores			270	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	13		40	
Cladosporium			640	
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown			13	
Penicillium/Aspergillus types	110		910	
Pithomyces				
Rusts			13	
Smuts (Periconia, Myxomycetes)	13		110	40
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	<13	<13
Background debris*	2+	2+	3+	3+
TOTAL**	130	53	2,100	40

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

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

SAMPLE NUMBER	21208001-1 TM17	21208001-1 TM18	21208001-1 TM19	21208001-1 TM20
SAMPLING LOCATION/ACTIVITIES	9 th Floor; Break Room 910; about center; approximately five feet above floor/Normal office activities	14 th Floor; Column L18 area; Cubicle 18; about center; approximately five feet above floor/Normal office activities	16 th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	19 th Floor; Mail Room 19B; northern portion; about center; approximately five feet above floor/Normal office activities
DATE	08/22/12	08/22/12	08/22/12	08/22/12
START/STOP	09:47:00/09:52:00	09:56:00/10:01:00	10:05:00/10:10:00	10:14:00/10:19:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13			
Arthrinium				
Ascospores				
Basidiospores		53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53		53	
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types			53	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	40			
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	13	<13
Background debris*	3+	1+	2+	2+
TOTAL **	110	53	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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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21208001-1 TM21OUT	21208001-1 TM22	21208001-1 TM23	21208001-1 TM24
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet north of building; approximately five feet above ground/Normal outdoor activities	1st Floor; Mail Room 143; about center; approximately five feet above floor/Normal office activities	6 th Floor; adjacent to Room 618 entry door; approximately five feet above floor/Normal office activities	10 th Floor; northern hallway adjacent to Storage Room 10D; approximately five feet above floor/Normal office activities
DATE	08/31/12	08/31/12	08/31/12	08/31/12
START/STOP	10:58:00/11:03:00	11:10:00/11:15:00	11:21:00/11:26:00	11:32:00/11:37:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	27	13		13
Arthrinium				
Ascospores	160			
Basidiospores	160	53		53
Bipolaris/Drechslera group				13
Botrytis				
Chaetomium	13			
Cladosporium	1,400	53	53	53
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium	13			
Other brown				
Penicillium/Aspergillus types	110			
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	320	53		27
Stachybotrys				
Torula	53	13		
Ulocladium				
Zygomycetes				
Hyphal fragments	80	13	<13	<13
Background debris*	2+	2+	2+	2+
TOTAL **	2,200	190	53	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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SACRAMENTO, CALIFORNIA
AUGUST 8, 15, 22, AND 31, 2012

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

SAMPLE NUMBER	21208001-1 TM25	21208001-1 TM26		
SAMPLING LOCATION/ACTIVITIES	21 st Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	23 rd Floor; Column K20 area; about 10 feet from Column K20; approximately five feet above floor/Normal office activities	This column intentionally left blank.	This column intentionally left blank.
DATE	08/31/12	08/31/12		
START/STOP	11:40:00/11:45:00	11:52:00/11:57:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Arthrinium				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts		13		
Smuts (Periconia, Myxomycetes)		13		
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13		
Background debris*	2+	2+		
TOTAL **	<13	27		

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

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



Report for:

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

Regarding: Project: 21208001-1
EML ID: 955772

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 08-10-2012

Service SOPs: Spore trap analysis (1038)
AIHA accredited service

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.

Document Number: 200091 - Revision Number: 5

EMLab P&K, LLC

EMLab ID: 955772, Page 1 of 3

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-08-2012
 Date of Receipt: 08-09-2012
 Date of Report: 08-10-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21208001-1 TM01OUT		21208001-1 TM02		21208001-1 TM03		21208001-1 TM04	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	4261328-1		4261329-1		4261330-1		4261331-1	
Analysis Date:	08/10/2012		08/10/2012		08/10/2012		08/10/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores								
Basidiospores	16	850					1	53
Botrytis								
Chaetomium	7	93						
Cladosporium	43	2,300						
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora	7	93						
Other colorless								
Penicillium/Aspergillus types†	2	110						
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	21	280	7	93				
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		3+		2+		2+	
Hyphal fragments/m3	110		27		< 13		< 13	
Pollen/m3	40		< 13		< 13		13	
Skin cells (1-4+)	< 1+		2+		1+		2+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		3,700		93		< 13		53

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.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-08-2012
 Date of Receipt: 08-09-2012
 Date of Report: 08-10-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21208001-1 TM05		21208001-1 TM06		21208001-1 TM07		21208001-1 TM08	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	4261332-1		4261333-1		4261334-1		4261335-1	
Analysis Date:	08/10/2012		08/10/2012		08/10/2012		08/10/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores								
Basidiospores								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53						
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	4	53	2	27	3	40	1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13		13	
Pollen/m3	27		< 13		< 13		< 13	
Skin cells (1-4+)	2+		2+		1+		2+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		110		27		40		13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
 † The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
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For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
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Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21208001-1

Date of Sampling: 08-08-2012
Date of Receipt: 08-09-2012
Date of Report: 08-10-2012

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 21208001-1 TM01OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California (n‡=15667)†						Typical Outdoor Data for: The entire year in California (n‡=175031)†					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	56	93	61	13	13	27	67	110	55
Bipolaris/Drechslera group	-	9	13	13	27	40	16	7	13	13	27	40	12
Chaetomium	93	10	13	13	27	53	25	8	13	13	27	44	19
Cladosporium	2,300	160	270	700	1,600	2,600	99	110	210	640	1,700	2,800	97
Curvularia	-	8	13	13	27	53	12	7	13	13	27	53	6
Nigrospora	93	7	13	13	27	53	12	7	13	13	27	53	8
Penicillium/Aspergillus types	110	53	110	270	690	1,100	89	53	110	210	590	1,000	85
Stachybotrys	-	7	13	13	27	60	5	7	13	13	33	67	4
Torula	-	10	13	13	40	58	15	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	-	13	33	73	190	320	67	25	53	110	350	690	72
Basidiospores	850	40	53	160	370	590	92	53	80	270	1,000	2,300	94
Rusts	-	13	13	13	40	67	26	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	280	13	13	40	93	160	71	13	13	40	110	200	68
§ TOTAL SPORES/m3	3,700												

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

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

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

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

‡n = number of samples used to calculate data.

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-08-2012
 Date of Receipt: 08-09-2012
 Date of Report: 08-10-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21208001-1 TM01OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					13 - 190 - 5,400	77
Basidiospores					13 - 430 - 21,000	92
Chaetomium					7 - 13 - 150	10
Cladosporium					27 - 480 - 10,000	91
Nigrospora					7 - 13 - 230	16
Penicillium/Aspergillus types					13 - 160 - 2,600	70
Smuts, Periconia, Myxomycetes					7 - 47 - 960	65
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: 21208001-1 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: 6 Result: 2.9643 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.3857 Critical value: 0.7714 Outside Similar: No	Score: 117 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					93
Total					93

Location: 21208001-1 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: 6 Result: 2.9643 Critical value: 12.5916 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					< 13

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-08-2012
 Date of Receipt: 08-09-2012
 Date of Report: 08-10-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21208001-1 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: 6 Result: 2.9643 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.5571 Critical value: 0.7714 Outside Similar: No	Score: 104 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Total					53

Location: 21208001-1 TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 6 Result: 2.9643 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.6857 Critical value: 0.7714 Outside Similar: No	Score: 109 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Smuts, Periconia, Myxomycetes					53
Total					110

Location: 21208001-1 TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 2.9643 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.3857 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					27
Total					27

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

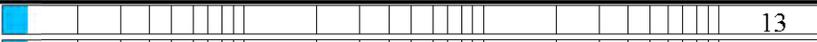
Date of Sampling: 08-08-2012
 Date of Receipt: 08-09-2012
 Date of Report: 08-10-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21208001-1 TM07

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 6 Result: 2.9643 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.3857 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					40
Total					40

Location: 21208001-1 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: 6 Result: 2.9643 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.3857 Critical value: 0.7714 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					13
Total					13

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

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

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21208001-1

Date of Sampling: 08-08-2012
Date of Receipt: 08-09-2012
Date of Report: 08-10-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-08-2012
 Date of Receipt: 08-09-2012
 Date of Report: 08-10-2012

MoldSCORE™: Spore Trap Report

Location: 21208001-1 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					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: 21208001-1 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					1	53	█			104
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						53				Final MoldSCORE 104

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-08-2012
 Date of Receipt: 08-09-2012
 Date of Report: 08-10-2012

MoldSCORE™: Spore Trap Report

Location: 21208001-1 TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium	█				1	53			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes	█				4	53			109
Total						107			Final MoldSCORE 109

Location: 21208001-1 TM06

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-08-2012
 Date of Receipt: 08-09-2012
 Date of Report: 08-10-2012

MoldSCORE™: Spore Trap Report

Location: 21208001-1 TM07

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					3	40				107
Total						40				107
Final MoldSCORE 107										

Location: 21208001-1 TM08

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					1	13				102
Total						13				102
Final MoldSCORE 102										

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21208001-1

Date of Sampling: 08-08-2012
Date of Receipt: 08-09-2012
Date of Report: 08-10-2012

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. Larry Sandhu
Hygiene Technologies International, Inc.: Northern California
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21208001-1
EML ID: 958534

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 08-17-2012

Service SOPs: Spore trap analysis (1038)
AIHA accredited service

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.

Document Number: 200091 - Revision Number: 5

EMLab P&K, LLC

EMLab ID: 958534, Page 1 of 3

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21208001-1

Date of Sampling: 08-15-2012
Date of Receipt: 08-16-2012
Date of Report: 08-17-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21208001-1 TM09OUT		21208001-1 TM10		21208001-1 TM11	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4273784-1		4273785-1		4273786-1	
Analysis Date:	08/17/2012		08/17/2012		08/17/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores	2	110				
Basidiospores	4	210				
Chaetomium	1	13				
Cladosporium	8	430				
Epicoccum	1	13	1	13		
Fusarium						
Myrothecium						
Nigrospora						
Oidium	1	13				
Other brown	1	13	1	13		
Other colorless						
Penicillium/Aspergillus types†	7	370				
Pithomyces						
Rusts	1	13	1	13		
Smuts, Periconia, Myxomycetes	20	270				
Stachybotrys						
Stemphylium	2	27				
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		2+		2+	
Hyphal fragments/m3	67		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		2+		2+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		1,500		40		< 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.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-15-2012
 Date of Receipt: 08-16-2012
 Date of Report: 08-17-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21208001-1 TM12		21208001-1 TM13		21208001-1 TM14	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4273787-1		4273788-1		4273789-1	
Analysis Date:	08/17/2012		08/17/2012		08/17/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores					1	53
Basidiospores						
Chaetomium			1	13		
Cladosporium						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other brown						
Other colorless						
Penicillium/Aspergillus types†			2	110		
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes			1	13		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		2+		2+	
Hyphal fragments/m3	13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	2+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		< 13		130		53

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.:
Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21208001-1

Date of Sampling: 08-15-2012
Date of Receipt: 08-16-2012
Date of Report: 08-17-2012

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21208001-1 TM09OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California (n‡=15667)†						Typical Outdoor Data for: The entire year in California (n‡=175031)†					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	56	93	61	13	13	27	67	110	55
Bipolaris/Drechslera group	-	9	13	13	27	40	16	7	13	13	27	40	12
Chaetomium	13	10	13	13	27	53	25	8	13	13	27	44	19
Cladosporium	430	160	270	700	1,600	2,600	99	110	210	640	1,700	2,800	97
Curvularia	-	8	13	13	27	53	12	7	13	13	27	53	6
Epicoccum	13	8	13	13	27	53	22	8	13	13	33	53	19
Nigrospora	-	7	13	13	27	53	12	7	13	13	27	53	8
Other brown	13	13	13	13	38	53	36	13	13	13	40	53	35
Penicillium/Aspergillus types	370	53	110	270	690	1,100	89	53	110	210	590	1,000	85
Stachybotrys	-	7	13	13	27	60	5	7	13	13	33	67	4
Stemphylium	27	7	13	13	27	40	11	7	13	13	27	40	9
Torula	-	10	13	13	40	58	15	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	110	13	33	73	190	320	67	25	53	110	350	690	72
Basidiospores	210	40	53	160	370	590	92	53	80	270	1,000	2,300	94
Oidium	13	13	13	13	40	67	20	13	13	13	40	75	19
Rusts	13	13	13	13	40	67	26	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	270	13	13	40	93	160	71	13	13	40	110	200	68
§ TOTAL SPORES/m3	1,500												

†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.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-15-2012
 Date of Receipt: 08-16-2012
 Date of Report: 08-17-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21208001-1 TM09OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				110	13 - 190 - 5,400	77
Basidiospores				210	13 - 430 - 21,000	92
Chaetomium				13	7 - 13 - 150	10
Cladosporium				430	27 - 480 - 10,000	91
Epicoccum				13	7 - 20 - 350	26
Oidium				13	7 - 13 - 240	13
Other brown				13	7 - 13 - 120	25
Penicillium/Aspergillus types				370	13 - 160 - 2,600	70
Rusts				13	7 - 20 - 350	21
Smuts, Periconia, Myxomycetes				270	7 - 47 - 960	65
Stemphylium				27	7 - 13 - 80	3
Total				1,500		

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: 21208001-1 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: 3.2857 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4286	dF: 11 Result: -0.2045 Critical value: 0.5273 Outside Similar: No	Score: 110 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Epicoccum				13
	Other brown				13
	Rusts				13
	Total				40

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-15-2012
 Date of Receipt: 08-16-2012
 Date of Report: 08-17-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21208001-1 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: 3.2857 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected				
		< 13		

Location: 21208001-1 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: 3.2857 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected				
		< 13		

Location: 21208001-1 TM13

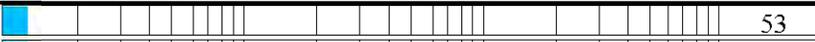
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 9%	dF: 4 Result: 3.2857 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4286	dF: 11 Result: 0.4750 Critical value: 0.5273 Outside Similar: No	Score: 119 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Chaetomium		13		
Penicillium/Aspergillus types		110		
Smuts, Periconia, Myxomycetes		13		
Total		130		

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-15-2012
 Date of Receipt: 08-16-2012
 Date of Report: 08-17-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21208001-1 TM14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 4 Result: 3.2857 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.4705 Critical value: 0.5273 Outside Similar: No	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Total					53

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

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

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

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

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-15-2012
 Date of Receipt: 08-16-2012
 Date of Report: 08-17-2012

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21208001-1 TM09OUT

Fungi Identified	Outdoor 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	█				1	13
Cladosporium	█	█			8	430
Curvularia					ND	< 13
Epicoccum	█				1	13
Nigrospora					ND	< 13
Other brown	█				1	13
Penicillium/Aspergillus types†	█	█			7	370
Stachybotrys					ND	< 13
Stemphylium	█				2	27
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores	█				2	110
Basidiospores	█				4	210
Oidium	█				1	13
Rusts	█				1	13
Smuts, Periconia, Myxomycetes	█	█			20	270
Total						1,480

Location: 21208001-1 TM10

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

MoldSCORE‡			
100	200	300	Score
█			100
█			100
█			100
█			100
█			100
█			105
█			100
█			105
█			100
█			100
█			100
█			100
█			100
█			100
█			105
█			100
Final MoldSCORE			110

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-15-2012
 Date of Receipt: 08-16-2012
 Date of Report: 08-17-2012

MoldSCORE™: Spore Trap Report

Location: 21208001-1 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					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: 21208001-1 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					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					ND	< 13	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						N/A				Final MoldSCORE 100

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-15-2012
 Date of Receipt: 08-16-2012
 Date of Report: 08-17-2012

MoldSCORE™: Spore Trap Report

Location: 21208001-1 TM13

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					1	13			119
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					2	110			114
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					1	13			100
Total						133			Final MoldSCORE 119

Location: 21208001-1 TM14

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					1	53			120
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						53			Final MoldSCORE 100

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21208001-1

Date of Sampling: 08-15-2012
Date of Receipt: 08-16-2012
Date of Report: 08-17-2012

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. Larry Sandhu
Hygiene Technologies International, Inc.: Northern California
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21208001-1
EML ID: 960748

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 08-23-2012

Service SOPs: Spore trap analysis (1038)
AIHA accredited service

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.

Document Number: 200091 - Revision Number: 5

EMLab P&K, LLC

EMLab ID: 960748, Page 1 of 3

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21208001-1

Date of Sampling: 08-22-2012
Date of Receipt: 08-22-2012
Date of Report: 08-23-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21208001-1-TM15Out		21208001-1-TM16		21208001-1-TM17	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4283259-1		4283260-1		4283261-1	
Analysis Date:	08/23/2012		08/23/2012		08/23/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13			1	13
Ascospores	1	53				
Basidiospores	5	270				
Chaetomium	3	40				
Cladosporium	12	640			1	53
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown	1	13				
Other colorless						
Penicillium/Aspergillus types†	17	910				
Pithomyces						
Rusts	1	13				
Smuts, Periconia, Myxomycetes	8	110	3	40	3	40
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		3+		3+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		13	
Skin cells (1-4+)	< 1+		2+		2+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		2.100		40		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.:
Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21208001-1

Date of Sampling: 08-22-2012
Date of Receipt: 08-22-2012
Date of Report: 08-23-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21208001-1-TM18		21208001-1-TM19		21208001-1-TM20	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4283262-1		4283263-1		4283264-1	
Analysis Date:	08/23/2012		08/23/2012		08/23/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores	1	53				
Chaetomium						
Cladosporium			1	53		
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†			1	53		
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		53		110		< 13

Comments:

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

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

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21208001-1

Date of Sampling: 08-22-2012
Date of Receipt: 08-22-2012
Date of Report: 08-23-2012

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 21208001-1-TM15Out**

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California (n‡=15667)†						Typical Outdoor Data for: The entire year in California (n‡=175031)†					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	13	13	13	27	56	93	61	13	13	27	67	110	55
Bipolaris/Drechslera group	-	9	13	13	27	40	16	7	13	13	27	40	12
Chaetomium	40	10	13	13	27	53	25	8	13	13	27	44	19
Cladosporium	640	160	270	700	1,600	2,600	99	110	210	640	1,700	2,800	97
Curvularia	-	8	13	13	27	53	12	7	13	13	27	53	6
Nigrospora	-	7	13	13	27	53	12	7	13	13	27	53	8
Other brown	13	13	13	13	38	53	36	13	13	13	40	53	35
Penicillium/Aspergillus types	910	53	110	270	690	1,100	89	53	110	210	590	1,000	85
Stachybotrys	-	7	13	13	27	60	5	7	13	13	33	67	4
Torula	-	10	13	13	40	58	15	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	53	13	33	73	190	320	67	25	53	110	350	690	72
Basidiospores	270	40	53	160	370	590	92	53	80	270	1,000	2,300	94
Rusts	13	13	13	13	40	67	26	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	110	13	13	40	93	160	71	13	13	40	110	200	68
§ TOTAL SPORES/m3	2,100												

†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.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-22-2012
 Date of Receipt: 08-22-2012
 Date of Report: 08-23-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21208001-1-TM15Out:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				13	7 - 33 - 530	47
Ascospores				53	13 - 190 - 5,400	77
Basidiospores				270	13 - 430 - 21,000	92
Chaetomium				40	7 - 13 - 150	10
Cladosporium				640	27 - 480 - 10,000	91
Other brown				13	7 - 13 - 120	25
Penicillium/Aspergillus types				910	13 - 160 - 2,600	70
Rusts				13	7 - 20 - 350	21
Smuts, Periconia, Myxomycetes				110	7 - 47 - 960	65
Total				2,100		

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: 21208001-1-TM16

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 4 Result: 2.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.4417 Critical value: 0.5833 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					40
Total					40

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-22-2012
 Date of Receipt: 08-22-2012
 Date of Report: 08-23-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21208001-1-TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 5%	dF: 4 Result: 2.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5000	dF: 9 Result: 0.3375 Critical value: 0.5833 Outside Similar: No	Score: 111 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					53
Smuts, Periconia, Myxomycetes					40
Total					110

Location: 21208001-1-TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 4 Result: 2.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.5167 Critical value: 0.5833 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Total					53

Location: 21208001-1-TM19

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 5%	dF: 4 Result: 2.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.7792 Critical value: 0.5833 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Penicillium/Aspergillus types					53
Total					110

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-22-2012
 Date of Receipt: 08-22-2012
 Date of Report: 08-23-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21208001-1-TM20

% 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: 2.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
None Detected				>100K
				< 13

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

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

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

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

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-22-2012
 Date of Receipt: 08-22-2012
 Date of Report: 08-23-2012

MoldSCORE™: Spore Trap Report

Location: 21208001-1-TM17

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria	█				1	13	█		105
Bipolaris/Drechslera group					ND	< 13	█		100
Chaetomium					ND	< 13	█		100
Cladosporium	█				1	53	█		101
Curvularia					ND	< 13	█		100
Nigrospora					ND	< 13	█		100
Penicillium/Aspergillus types†					ND	< 13	█		100
Stachybotrys					ND	< 13	█		100
Torula					ND	< 13	█		100
Seldom found growing indoors**									
Ascospores					ND	< 13	█		100
Basidiospores					ND	< 13	█		100
Rusts					ND	< 13	█		100
Smuts, Periconia, Myxomycetes	█				3	40	█		107
Total						107			Final MoldSCORE 111

Location: 21208001-1-TM18

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-22-2012
 Date of Receipt: 08-22-2012
 Date of Report: 08-23-2012

MoldSCORE™: Spore Trap Report

Location: 21208001-1-TM19

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium	█				1	53			101
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†	█				1	53			101
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						107			
							Final MoldSCORE		101

Location: 21208001-1-TM20

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21208001-1

Date of Sampling: 08-22-2012
Date of Receipt: 08-22-2012
Date of Report: 08-23-2012

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. Larry Sandhu
Hygiene Technologies International, Inc.: Northern California
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21208001-1
EML ID: 965510

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 09-05-2012

Service SOPs: Spore trap analysis (1038)
AIHA accredited service

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.

Document Number: 200091 - Revision Number: 5

EMLab P&K, LLC

EMLab ID: 965510, Page 1 of 3

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21208001-1

Date of Sampling: 08-31-2012
Date of Receipt: 09-04-2012
Date of Report: 09-05-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21208001-1-TM21OUT		21208001-1-TM22		21208001-1-TM23	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4306048-1		4306049-1		4306050-1	
Analysis Date:	09/05/2012		09/05/2012		09/05/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27	1	13		
Ascospores	3	160				
Basidiospores	3	160	1	53		
Bipolaris/Drechslera group						
Chaetomium	1	13				
Cladosporium	26	1,400	1	53	1	53
Fusarium						
Myrothecium						
Nigrospora						
Oidium	1	13				
Other colorless						
Penicillium/Aspergillus types†	2	110				
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	24	320	4	53		
Stachybotrys						
Stemphylium						
Torula	4	53	1	13		
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	80		13		< 13	
Pollen/m3	130		13		< 13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		2.200		190		53

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.:
Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21208001-1

Date of Sampling: 08-31-2012
Date of Receipt: 09-04-2012
Date of Report: 09-05-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21208001-1-TM24		21208001-1-TM25		21208001-1-TM26	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4306051-1		4306052-1		4306053-1	
Analysis Date:	09/05/2012		09/05/2012		09/05/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13				
Ascospores						
Basidiospores	1	53				
Bipolaris/Drechslera group	1	13				
Chaetomium						
Cladosporium	1	53				
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts					1	13
Smuts, Periconia, Myxomycetes	4	53			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		190		< 13		27

Comments:

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

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

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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.

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21208001-1

Date of Sampling: 08-31-2012
Date of Receipt: 09-04-2012
Date of Report: 09-05-2012

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 21208001-1-TM21OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California (n‡=15667)†						Typical Outdoor Data for: The entire year in California (n‡=175031)†					
		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	56	93	61	13	13	27	67	110	55
Bipolaris/Drechslera group	-	9	13	13	27	40	16	7	13	13	27	40	12
Chaetomium	13	10	13	13	27	53	25	8	13	13	27	44	19
Cladosporium	1,400	160	270	700	1,600	2,600	99	110	210	640	1,700	2,800	97
Curvularia	-	8	13	13	27	53	12	7	13	13	27	53	6
Nigrospora	-	7	13	13	27	53	12	7	13	13	27	53	8
Penicillium/Aspergillus types	110	53	110	270	690	1,100	89	53	110	210	590	1,000	85
Stachybotrys	-	7	13	13	27	60	5	7	13	13	33	67	4
Torula	53	10	13	13	40	58	15	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	160	13	33	73	190	320	67	25	53	110	350	690	72
Basidiospores	160	40	53	160	370	590	92	53	80	270	1,000	2,300	94
Oidium	13	13	13	13	40	67	20	13	13	13	40	75	19
Rusts	-	13	13	13	40	67	26	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	320	13	13	40	93	160	71	13	13	40	110	200	68
§ TOTAL SPORES/m3	2,200												

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

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

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

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

‡n = number of samples used to calculate data.

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-31-2012
 Date of Receipt: 09-04-2012
 Date of Report: 09-05-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21208001-1-TM21OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				27	7 - 33 - 530	47
Ascospores				160	13 - 190 - 5,400	77
Basidiospores				160	13 - 430 - 21,000	92
Chaetomium				13	7 - 13 - 150	10
Cladosporium				1,400	27 - 480 - 10,000	91
Oidium				13	7 - 13 - 240	13
Penicillium/Aspergillus types				110	13 - 160 - 2,600	70
Smuts, Periconia, Myxomycetes				320	7 - 47 - 960	65
Torula				53	7 - 13 - 170	10
Total				2,200		

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

Indoor Samples

Location: 21208001-1-TM22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 8%	dF: 4 Result: 8.5143 Critical value: 9.4877 Inside Similar: Yes	Result: 0.7143	dF: 9 Result: 0.7000 Critical value: 0.5833 Outside Similar: Yes	Score: 113 Result: Low
Species Detected	Spores/m3			
	<100	1K	10K	>100K
Alternaria				13
Basidiospores				53
Cladosporium				53
Smuts, Periconia, Myxomycetes				53
Torula				13
Total				190

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21208001-1

Date of Sampling: 08-31-2012
 Date of Receipt: 09-04-2012
 Date of Report: 09-05-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21208001-1-TM23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 4 Result: 8.5143 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6583 Critical value: 0.5833 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Location: 21208001-1-TM24

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 8%	dF: 4 Result: 8.5143 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5714	dF: 10 Result: 0.5545 Critical value: 0.5515 Outside Similar: Yes	Score: 115 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Basidiospores					53
Bipolaris/Drechslera group					13
Cladosporium					53
Smuts, Periconia, Myxomycetes					53
Total					190

Location: 21208001-1-TM25

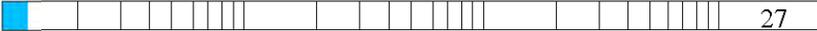
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 8.5143 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					< 13

Client: Hygiene Technologies International, Inc.:
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 Re: 21208001-1

Date of Sampling: 08-31-2012
 Date of Receipt: 09-04-2012
 Date of Report: 09-05-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21208001-1-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: 4 Result: 8.5143 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.2030 Critical value: 0.5515 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Rusts					13
Smuts, Periconia, Myxomycetes					13
Total					27

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

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

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

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

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

Client: Hygiene Technologies International, Inc.:
 Northern California
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 Re: 21208001-1

Date of Sampling: 08-31-2012
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MoldSCORE™: Spore Trap Report

Outdoor Sample: 21208001-1-TM21OUT

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	█				1	13
Cladosporium	█	█	█		26	1,400
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†	█				2	110
Stachybotrys					ND	< 13
Torula	█				4	53
Seldom found growing indoors**						
Ascospores	█				3	160
Basidiospores	█				3	160
Oidium	█				1	13
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes	█	█			24	320
Total						2,240

Location: 21208001-1-TM22

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria	█				1	13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium	█				1	53
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula	█				1	13
Seldom found growing indoors**						
Ascospores					ND	< 13
Basidiospores	█				1	53
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes	█				4	53
Total						187

MoldSCORE‡			
100	200	300	Score
█			104
█			100
█			100
█			100
█			100
█			100
█			100
█			100
█			104
█			100
█			104
█			100
█			105
Final MoldSCORE			113

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MoldSCORE™: Spore Trap Report

Location: 21208001-1-TM23

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

Location: 21208001-1-TM24

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria	█				1	13			104
Bipolaris/Drechslera group					1	13			105
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					ND	< 13			100
Smuts, Periconia, Myxomycetes	█				4	53			105
Total						187			Final MoldSCORE 114

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 Date of Report: 09-05-2012

MoldSCORE™: Spore Trap Report

Location: 21208001-1-TM25

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

Location: 21208001-1-TM26

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					1	13				105
Smuts, Periconia, Myxomycetes					1	13				102
Total						27				Final MoldSCORE 102

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Date of Sampling: 08-31-2012
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Date of Report: 09-05-2012

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.

