



HYGIENETECH

Hygiene Technologies International, Inc.

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May 21, 2015

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

Document No. 21504001.1

Attention: David Gau

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

Dear Mr. Gau:

On April 3, 13, 21 and 30, 2015, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted limited fungal growth exposure assessment surveys involving 22 randomly selected areas located within the California State Board of Equalization (BOE) building. The findings of the surveys, along with the analytical data, conclusions, and recommendations when applicable, appear below.

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

As presented in Table 21504001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Oidium*, other brown, rust, smuts, *Stachybotrys* 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, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Oidium*, other brown, rusts, and/or smuts. The distribution of fungal spore types detected in the surveyed areas was consistent with those found outdoors, and the overall data within the tested areas were well below the overall outdoor data recorded. These data are considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

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

Mr. David Gau
May 21, 2015
Document No. 21504001.1 – April 2015 Random Sampling
Page 2



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 K. Hsi", is written over 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 21504001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 3, 13, 21, AND 30, 2015

Page 1

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

SAMPLE NUMBER	21504001-1 TM01OUT	21504001-1 TM02	21504001-1 TM03	21504001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet northeast of main entrance; approximately five feet above ground/Normal outdoor activities	1 st Floor; Cafeteria; café area; adjacent to the counter at northern end; approximately five feet above floor/Sampling activities only	7 th Floor; Break Room 707; about center; approximately five feet above floor/Normal office activities	10 th Floor; Column J18 area; about five feet north of Column J18 area; approximately five feet above floor/Normal office activities
DATE	04/03/15	04/03/15	04/03/15	04/03/15
START/STOP	15:16:00/15:21:00	15:23:00/15:28:00	15:32:00/15:37:00	15:41:00/15:46:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	27			
Ascospores				
Basidiospores	110			53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	13			
Cladosporium	910			
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown		13		
Other colorless				
Penicillium/Aspergillus types	160			
Pithomyces				
Rusts	27		13	27
Smuts (Periconia, Myxomycetes)	67	13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	80	<13	13	<13
Background debris*	2+	1+	2+	2+
TOTAL**	1,300	27	13	80

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

**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
APRIL 3, 13, 21, AND 30, 2015

Page 2

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

SAMPLE NUMBER	21504001-1 TM05	21504001-1 TM06	21504001-1 TM07OUT	21504001-1 TM08
SAMPLING LOCATION/ACTIVITIES	15 th Floor; Room 1503 adjacent to northwestern drinking fountain; approximately five feet above floor/Normal office activities	18 th Floor; Column J18 area; Cubicle at Column J18; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet east of the building; approximately five feet above ground/Normal outdoor activities	3 rd Floor; Room 311; Cubicle 136; about center; approximately five feet above floor/Normal office activities
DATE	04/03/15	04/03/15	04/13/15	04/13/15
START/STOP	15:51:00/15:56:00	15:59:00/16:04:00	14:12:00/14:17:00	14:21:00/14:26:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			40	
Ascospores			160	
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium			8.300	53
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium			170	27
Other brown				
Penicillium/Aspergillus types			110	
Pithomyces				
Rusts			93	13
Smuts (Periconia, Myxomycetes)			2,400	27
Stachybotrys				
Stemphylium				
Torula			13	
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	160	13
Background debris*	1+	2+	2+	2+
TOTAL**	<13	<13	11,000	120

*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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450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 3, 13, 21, AND 30, 2015

Page 3

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

SAMPLE NUMBER	21504001-1 TM09	21504001-1 TM10	21504001-1 TM11	21504001-1 TM12
SAMPLING LOCATION/ACTIVITIES	5 th Floor; northern corridor adjacent to NW drinking fountain; approximately five feet above floor/Normal office activities	9 th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	14 th Floor; Column N23 area; Cubicle 84.01; about center; approximately five feet above floor/Normal office activities	19 th Floor; southern corridor adjacent to Freight Elevator; about center; approximately five feet above floor/Normal office activities
DATE	04/13/15	04/13/15	04/13/15	04/13/15
START/STOP	14:30:00/14:35:00	14:37:00/14:42:00	14:46:00/14:51:00	14:54:00/14:59:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13		13	
Arthrinium				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	110	53	
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium	13			
Other brown				
Penicillium/Aspergillus types		53		110
Pithomyces				
Rusts	13	13	13	
Smuts (Periconia, Myxomycetes)	27	27		67
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	13	<13	<13	40
Background debris*	3+	3+	2+	3+
TOTAL **	120	200	80	170

*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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450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 3, 13, 21, AND 30, 2015

Page 4

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

SAMPLE NUMBER	21504001-1 TM13OUT	21504001-1 TM14	21504001-1 TM15	21504001-1 TM16
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet south of the building; approximately five feet above ground/Normal outdoor activities	4 th Floor; Conference Room 408; about center; approximately five feet above floor/Normal office activities	6 th Floor; Break Room 617; about center; approximately five feet above floor/Normal office activities	11 th Floor; Room 1106; about 10 feet east of entry door; about center; approximately five feet above floor/Normal office activities
DATE	04/21/15	04/21/15	04/21/15	04/21/15
START/STOP	09:40:00/09:45:00	09:49:00/09:54:00	09:57:00/10:02:00	10:07:00/10:12:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	27			
Ascospores				
Basidiospores	160			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	1,400	110	53	
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types				
Pithomyces				
Rusts	40			27
Smuts (Periconia, Myxomycetes)	200	40	27	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	67	<13	<13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	1,800	150	80	27

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

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450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 3, 13, 21, AND 30, 2015

Page 5

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

SAMPLE NUMBER	21504001-1 TM17	21504001-1 TM18	21504001-1 TM19	21504001-1 TM20OUT
SAMPLING LOCATION/ACTIVITIES	16 th Floor; northern corridor; adjacent to northwestern drinking fountain; approximately five feet above floor/Normal office activities	20 th Floor; Column N17 area; about three feet southwest of Column N17; approximately five feet above floor/Normal office activities	23 rd Floor; Room 2304; adjacent to southern door; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet northeast of the building; approximately five feet above ground/Normal outdoor activities
DATE	04/21/15	04/21/15	04/21/15	04/30/15
START/STOP	10:15:00/10:20:00	10:24:00/10:29:00	10:32:00/10:37:00	11:18:00/11:23:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13			93
Ascospores				210
Basidiospores	53			850
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				27
Cladosporium	53			12,000
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				13
Other brown				13
Penicillium/Aspergillus types	53			
Pithomyces				13
Rusts				27
Smuts (Periconia, Myxomycetes)	40	13		2,500
Stachybotrys				13
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	40	<13	<13	110
Background debris*	2+	2+	2+	2+
TOTAL**	210	13	<13	15,000

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

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AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 3, 13, 21, AND 30, 2015

Page 6

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

SAMPLE NUMBER	21504001-1 TM21	21504001-1 TM22	21504001-1 TM23	21504001-1 TM24
SAMPLING LOCATION/ACTIVITIES	2 nd Floor; about five feet south of Freight Elevator; approximately five feet above floor/Normal office activities	8 th Floor; Elevator Lobby; about center; approximately feet above floor/Normal office activities	17 th Floor; Mail Room 17B; about center; approximately five feet above floor/Normal office activities	21 st Floor; northern corridor adjacent to northwestern drinking fountain; approximately feet above floor/Normal office activities
DATE	04/30/15	04/30/15	04/30/15	04/30/15
START/STOP	11:26:00/11:31:00	11:35:00/11:40:00	11:43:00/11:48:00	11:59:00/12:04:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores	53			
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53			
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types	53			
Pithomyces				
Rusts				13
Smuts (Periconia, Myxomycetes)		13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	13
Background debris*	2+	2+	2+	2+
TOTAL**	160	13	<13	13

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

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450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 3, 13, 21, AND 30, 2015

Page 7

SAMPLE NUMBER	21504001-1 TM25	21504001-1 TM26		
SAMPLING LOCATION/ACTIVITIES	22 nd Floor; Quiet Room 2206; about five feet west of entry door approximately five feet above floor/Normal office activities	24 th Floor; Break Room 2402; about center; approximately five feet above floor/Normal office activities	This column intentionally left blank	This column intentionally left blank
DATE	04/30/15	04/30/15		
START/STOP	12:09:00/12:14:00	12:19:00/12:24:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Helicoma				
Myrothecium				
Nigrospora				
Oidium				
Other brown	13			
Penicillium/Aspergillus types				
Pithomyces				
Rusts	13			
Smuts (Periconia, Myxomycetes)		13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13		
Background debris*	2+	2+		
TOTAL**	27	13		

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

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



Report for:

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

Regarding: Project: 21504001-1
EML ID: 1347628

Approved by:

Technical Manager
Melissa Tracey

REVISED REPORT

Dates of Analysis:
Spore trap analysis: 04-09-2015

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21504001-1Date of Sampling: 04-03-2015
Date of Receipt: 04-06-2015
Date of Report: 04-06-2015**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21504001-1TM01OUT		21504001-1TM02		21504001-1TM03	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6171287-2		6171288-2		6171289-2	
Analysis Date:	04/09/2015		04/09/2015		04/09/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27				
Ascospores						
Basidiospores	2	110				
Botrytis						
Chaetomium	1	13				
Cladosporium	17	910				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown			1	13		
Other colorless						
Penicillium/Aspergillus types†	3	160				
Pithomyces						
Rusts	2	27			1	13
Smuts, Periconia, Myxomycetes	5	67	1	13		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		1+		2+	
Hyphal fragments/m3	80		< 13		13	
Pollen/m3	40		< 13		53	
Skin cells (1-4+)	< 1+		< 1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		1,300		27		13

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-03-2015
 Date of Receipt: 04-06-2015
 Date of Report: 04-06-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21504001-1TM04		21504001-1TM05		21504001-1TM06	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6171290-2		6171291-2		6171292-2	
Analysis Date:	04/09/2015		04/09/2015		04/09/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores	1	53				
Botrytis						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts	2	27				
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		1+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	80		27		27	
Skin cells (1-4+)	1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		80		< 13		< 13

Comments:

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

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For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
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Re: 21504001-1

Date of Sampling: 04-03-2015
Date of Receipt: 04-06-2015
Date of Report: 04-06-2015

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21504001-1TM01OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: April in California† (n‡=19176)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	27	13	13	27	53	93	53	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	40	9	7	13	13	27	50	12
Chaetomium	13	8	13	13	27	40	18	8	13	13	27	50	19
Cladosporium	910	110	160	430	1,100	1,900	96	110	210	610	1,700	2,800	97
Curvularia	-	7	8	13	13	27	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Other brown	-	13	13	13	40	53	33	13	13	13	40	53	34
Penicillium/Aspergillus types	160	53	53	160	430	690	78	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	33	75	4	7	13	13	33	67	4
Torula	-	10	13	13	44	73	14	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	-	27	53	110	390	750	74	25	53	110	370	700	71
Basidiospores	110	53	80	270	960	2,000	93	53	80	270	1,000	2,400	93
Rusts	27	13	13	24	53	93	34	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	67	13	13	40	110	210	67	13	13	40	110	210	68
§ TOTAL SPORES/m3	1,300												

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

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

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

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

‡n = number of samples used to calculate data.

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-03-2015
 Date of Receipt: 04-06-2015
 Date of Report: 04-06-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21504001-1TM01OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				27	7 - 40 - 610	45
Ascospores				< 13	13 - 210 - 6,000	76
Basidiospores				110	17 - 440 - 24,000	92
Chaetomium				13	7 - 13 - 160	9
Cladosporium				910	27 - 480 - 10,000	90
Penicillium/Aspergillus types				160	13 - 170 - 2,700	68
Rusts				27	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes				67	7 - 53 - 920	64
Total				1,300		

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: 21504001-1TM02

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 4 Result: 2.8000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: -0.0655 Critical value: 0.6190 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Other brown				13
	Smuts, Periconia, Myxomycetes				13
	Total				27

Location: 21504001-1TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 2.8000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.1339 Critical value: 0.6786 Outside Similar: No	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Rusts				13
	Total				13

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-03-2015
 Date of Receipt: 04-06-2015
 Date of Report: 04-06-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21504001-1TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: 4 Result: 2.8000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.1696 Critical value: 0.6786 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Rusts					27
Total					80

Location: 21504001-1TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 2.8000 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: 21504001-1TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 2.8000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					< 13

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21504001-1

Date of Sampling: 04-03-2015
Date of Receipt: 04-06-2015
Date of Report: 04-06-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-03-2015
 Date of Receipt: 04-06-2015
 Date of Report: 04-06-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21504001-1TM01OUT

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					17	910
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					3	160
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					ND	< 13
Basidiospores					2	110
Rusts					2	27
Smuts, Periconia, Myxomycetes					5	67
Total						1,307

Location: 21504001-1TM02

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

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			100
			100
			100
			105
			100
			100
			100
			100
			100
			100
			102
Final MoldSCORE			108

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-03-2015
 Date of Receipt: 04-06-2015
 Date of Report: 04-06-2015

MoldSCORE™: Spore Trap Report

Location: 21504001-1TM03

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

Location: 21504001-1TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					ND	< 13	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					1	53	█			105
Rusts					2	27	█			110
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						80				
							Final MoldSCORE			105

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-03-2015
 Date of Receipt: 04-06-2015
 Date of Report: 04-06-2015

MoldSCORE™: Spore Trap Report

Location: 21504001-1TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					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: 21504001-1TM06

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21504001-1

Date of Sampling: 04-03-2015
Date of Receipt: 04-06-2015
Date of Report: 04-06-2015

MoldSCORE™: Spore Trap Report

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

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

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

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



Report for:

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

Regarding: Project: 21504001-1
EML ID: 1351724

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 04-14-2015

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21504001-1Date of Sampling: 04-13-2015
Date of Receipt: 04-14-2015
Date of Report: 04-15-2015**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21504001-1TM07OUT		21504001-1TM08		21504001-1TM09	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6192122-1		6192123-1		6192124-1	
Analysis Date:	04/14/2015		04/14/2015		04/14/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	3	40			1	13
Ascospores	3	160				
Basidiospores						
Botrytis						
Chaetomium						
Cladosporium	156	8,300	1	53	1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium	13	170	2	27	1	13
Other colorless						
Penicillium/Aspergillus types†	2	110				
Pithomyces						
Rusts	7	93	1	13	1	13
Smuts, Periconia, Myxomycetes	182	2,400	2	27	2	27
Stachybotrys						
Stemphylium						
Torula	1	13				
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		3+	
Hyphal fragments/m3	160		13		13	
Pollen/m3	250		27		53	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		11,000		120		120

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-13-2015
 Date of Receipt: 04-14-2015
 Date of Report: 04-15-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21504001-1TM10		21504001-1TM11		21504001-1TM12	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6192125-1		6192126-1		6192127-1	
Analysis Date:	04/14/2015		04/14/2015		04/14/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13		
Ascospores						
Basidiospores						
Botrytis						
Chaetomium						
Cladosporium	2	110	1	53		
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other colorless						
Penicillium/Aspergillus types†	1	53			2	110
Pithomyces						
Rusts	1	13	1	13		
Smuts, Periconia, Myxomycetes	2	27			5	67
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		2+		3+	
Hyphal fragments/m3	< 13		< 13		40	
Pollen/m3	13		< 13		40	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		200		80		170

Comments:

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21504001-1

Date of Sampling: 04-13-2015
Date of Receipt: 04-14-2015
Date of Report: 04-15-2015

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21504001-1TM07OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: April in California† (n‡=19176)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	40	13	13	27	53	93	53	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	40	9	7	13	13	27	50	12
Chaetomium	-	8	13	13	27	40	18	8	13	13	27	50	19
Cladosporium	8,300	110	160	430	1,100	1,900	96	110	210	610	1,700	2,800	97
Curvularia	-	7	8	13	13	27	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Penicillium/Aspergillus types	110	53	53	160	430	690	78	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	33	75	4	7	13	13	33	67	4
Torula	13	10	13	13	44	73	14	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	160	27	53	110	390	750	74	25	53	110	370	700	71
Basidiospores	-	53	80	270	960	2,000	93	53	80	270	1,000	2,400	93
Oidium	170	13	13	27	53	93	31	13	13	13	47	75	19
Rusts	93	13	13	24	53	93	34	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	2,400	13	13	40	110	210	67	13	13	40	110	210	68
§ TOTAL SPORES/m3	11,000												

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

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

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

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

‡n = number of samples used to calculate data.

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-13-2015
 Date of Receipt: 04-14-2015
 Date of Report: 04-15-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21504001-1TM07OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				40	7 - 40 - 610	45
Ascospores				160	13 - 210 - 6,000	76
Basidiospores				< 13	15 - 440 - 24,000	92
Cladosporium				8,300	27 - 480 - 10,000	90
Oidium				170	7 - 13 - 210	11
Penicillium/Aspergillus types				110	13 - 170 - 2,700	68
Rusts				93	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes				2,400	7 - 53 - 920	64
Torula				13	7 - 13 - 170	9
Total				11,000		

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

Indoor Samples

Location: 21504001-1TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 4 Result: 0.9667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.6667	dF: 8 Result: 0.8155 Critical value: 0.6190 Outside Similar: Yes	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Cladosporium				53
	Oidium				27
	Rusts				13
	Smuts, Periconia, Myxomycetes				27
	Total				120

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-13-2015
 Date of Receipt: 04-14-2015
 Date of Report: 04-15-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21504001-1TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 4 Result: 0.9667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.7692	dF: 8 Result: 0.6667 Critical value: 0.6190 Outside Similar: Yes	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					53
Oidium					13
Rusts					13
Smuts, Periconia, Myxomycetes					27
Total					120

Location: 21504001-1TM10

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 4 Result: 0.9667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.6667	dF: 8 Result: 0.5833 Critical value: 0.6190 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					110
Penicillium/Aspergillus types					53
Rusts					13
Smuts, Periconia, Myxomycetes					27
Total					200

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-13-2015
 Date of Receipt: 04-14-2015
 Date of Report: 04-15-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21504001-1TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 0.9667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: 0.2083 Critical value: 0.6190 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					53
Rusts					13
Total					80

Location: 21504001-1TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 4 Result: 0.9667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.3631 Critical value: 0.6190 Outside Similar: No	Score: 117 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					110
Smuts, Periconia, Myxomycetes					67
Total					170

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21504001-1Date of Sampling: 04-13-2015
Date of Receipt: 04-14-2015
Date of Report: 04-15-2015**MoldSTAT™: Supplementary Statistical Spore Trap Report**

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-13-2015
 Date of Receipt: 04-14-2015
 Date of Report: 04-15-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21504001-1TM07OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					3	40
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					156	8,300
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					2	110
Stachybotrys					ND	< 13
Torula					1	13
Seldom found growing indoors**						
Ascospores					3	160
Basidiospores					ND	< 13
Oidium					13	170
Rusts					7	93
Smuts, Periconia, Myxomycetes					182	2,400
Total						11,333

Location: 21504001-1TM08

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					1	53
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					ND	< 13
Basidiospores					ND	< 13
Oidium					2	27
Rusts					1	13
Smuts, Periconia, Myxomycetes					2	27
Total						120

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-13-2015
 Date of Receipt: 04-14-2015
 Date of Report: 04-15-2015

MoldSCORE™: Spore Trap Report

Location: 21504001-1TM09

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					1	13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					1	53				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					ND	< 13				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores					ND	< 13				
Basidiospores					ND	< 13				
Oidium					1	13				
Rusts					1	13				
Smuts, Periconia, Myxomycetes					2	27				
Total						120	Final MoldSCORE 106			

Location: 21504001-1TM10

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					2	110				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					1	53				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores					ND	< 13				
Basidiospores					ND	< 13				
Rusts					1	13				
Smuts, Periconia, Myxomycetes					2	27				
Total						200	Final MoldSCORE 108			

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-13-2015
 Date of Receipt: 04-14-2015
 Date of Report: 04-15-2015

MoldSCORE™: Spore Trap Report

Location: 21504001-1TM11

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					1	13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					1	53				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					ND	< 13				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores					ND	< 13				
Basidiospores					ND	< 13				
Rusts					1	13				
Smuts, Periconia, Myxomycetes					ND	< 13				
Total						80	Final MoldSCORE 105			

Location: 21504001-1TM12

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					ND	< 13				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					2	110				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores					ND	< 13				
Basidiospores					ND	< 13				
Rusts					ND	< 13				
Smuts, Periconia, Myxomycetes					5	67				
Total						173	Final MoldSCORE 117			

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21504001-1

Date of Sampling: 04-13-2015
Date of Receipt: 04-14-2015
Date of Report: 04-15-2015

MoldSCORE™: Spore Trap Report

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

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

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

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



Report for:

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

Regarding: Project: 21504001-1
EML ID: 1354823

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 04-22-2015

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-21-2015
 Date of Receipt: 04-21-2015
 Date of Report: 04-22-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21504001-1TM13OUT		21504001-1TM14		21504001-1TM15		21504001-1TM16	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6207798-1		6207799-1		6207800-1		6207801-1	
Analysis Date:	04/22/2015		04/22/2015		04/22/2015		04/22/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27						
Ascospores								
Basidiospores	3	160						
Botrytis								
Chaetomium								
Cladosporium	26	1,400	2	110	1	53		
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts	3	40					2	27
Smuts, Periconia, Myxomycetes	15	200	3	40	2	27		
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	67		< 13		< 13		< 13	
Pollen/m3	80		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		1,800		150		80		27

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21504001-1

Date of Sampling: 04-21-2015
Date of Receipt: 04-21-2015
Date of Report: 04-22-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21504001-1TM17		21504001-1TM18		21504001-1TM19	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6207802-1		6207803-1		6207804-1	
Analysis Date:	04/22/2015		04/22/2015		04/22/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13				
Ascospores						
Basidiospores	1	53				
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium	1	53				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†	1	53				
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	3	40	1	13		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	40		< 13		< 13	
Pollen/m3	40		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		210		13		< 13

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21504001-1

Date of Sampling: 04-21-2015
Date of Receipt: 04-21-2015
Date of Report: 04-22-2015

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21504001-1TM13OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: April in California† (n‡=19176)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	27	13	13	27	53	93	53	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	40	9	7	13	13	27	50	12
Chaetomium	-	8	13	13	27	40	18	8	13	13	27	50	19
Cladosporium	1,400	110	160	430	1,100	1,900	96	110	210	610	1,700	2,800	97
Curvularia	-	7	8	13	13	27	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Penicillium/Aspergillus types	-	53	53	160	430	690	78	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	33	75	4	7	13	13	33	67	4
Torula	-	10	13	13	44	73	14	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	-	27	53	110	390	750	74	25	53	110	370	700	71
Basidiospores	160	53	80	270	960	2,000	93	53	80	270	1,000	2,400	93
Rusts	40	13	13	24	53	93	34	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	200	13	13	40	110	210	67	13	13	40	110	210	68
§ TOTAL SPORES/m3	1,800												

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

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

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

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

‡n = number of samples used to calculate data.

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-21-2015
 Date of Receipt: 04-21-2015
 Date of Report: 04-22-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21504001-1TM13OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				27	7 - 40 - 610	45
Ascospores				< 13	13 - 210 - 6,000	76
Basidiospores				160	15 - 440 - 24,000	92
Cladosporium				1,400	27 - 480 - 10,000	90
Penicillium/Aspergillus types				< 13	13 - 170 - 2,700	68
Rusts				40	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes				200	7 - 53 - 920	64
Total				1,800		

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

Indoor Samples

Location: 21504001-1TM14

% 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: 5 Result: 7.5714 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.9000 Critical value: 0.8000 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Cladosporium				110
	Smuts, Periconia, Myxomycetes				40
	Total				150

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-21-2015
 Date of Receipt: 04-21-2015
 Date of Report: 04-22-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21504001-1TM15

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 4%	dF: 5 Result: 7.5714 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.9000 Critical value: 0.8000 Outside Similar: Yes	Score: 104 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Smuts, Periconia, Myxomycetes					27
Total					80

Location: 21504001-1TM16

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 5 Result: 7.5714 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Rusts					27
Total					27

Location: 21504001-1TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 11%	dF: 5 Result: 7.5714 Critical value: 11.0705 Inside Similar: Yes	Result: 0.8000	dF: 6 Result: 0.2571 Critical value: 0.7714 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Basidiospores					53
Cladosporium					53
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					40
Total					210

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-21-2015
 Date of Receipt: 04-21-2015
 Date of Report: 04-22-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21504001-1TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 7.5714 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					13
Total					13

Location: 21504001-1TM19

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 7.5714 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					< 13

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21504001-1Date of Sampling: 04-21-2015
Date of Receipt: 04-21-2015
Date of Report: 04-22-2015**MoldSTAT™: Supplementary Statistical Spore Trap Report**

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-21-2015
 Date of Receipt: 04-21-2015
 Date of Report: 04-22-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21504001-1TM13OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					2	27
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					26	1,400
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					ND	< 13
Basidiospores					3	160
Rusts					3	40
Smuts, Periconia, Myxomycetes					15	200
Total						1,813

Location: 21504001-1TM14

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					2	110
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					ND	< 13
Basidiospores					ND	< 13
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					3	40
Total						147

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-21-2015
 Date of Receipt: 04-21-2015
 Date of Report: 04-22-2015

MoldSCORE™: Spore Trap Report

Location: 21504001-1TM15

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					2	27				104
Total						80				Final MoldSCORE 104

Location: 21504001-1TM16

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-21-2015
 Date of Receipt: 04-21-2015
 Date of Report: 04-22-2015

MoldSCORE™: Spore Trap Report

Location: 21504001-1TM17

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					1	13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					1	53				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					1	53				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores					ND	< 13				
Basidiospores					1	53				
Rusts					ND	< 13				
Smuts, Periconia, Myxomycetes					3	40				
Total						213	Final MoldSCORE 108			

Location: 21504001-1TM18

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-21-2015
 Date of Receipt: 04-21-2015
 Date of Report: 04-22-2015

MoldSCORE™: Spore Trap Report

Location: 21504001-1TM19

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

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

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

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

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



Report for:

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

Regarding: Project: 21504001-1
EML ID: 1359283

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 05-01-2015

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21504001-1

Date of Sampling: 04-30-2015
Date of Receipt: 04-30-2015
Date of Report: 05-01-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21504001-1TM20OUT		21504001-1TM21		21504001-1TM22		21504001-1TM23	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6232998-1		6232999-1		6233000-1		6233001-1	
Analysis Date:	05/01/2015		05/01/2015		05/01/2015		05/01/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	7	93						
Ascospores	4	210	1	53				
Basidiospores	16	850						
Chaetomium	2	27						
Cladosporium	217	12,000	1	53				
Fusarium								
Myrothecium								
Nigrospora								
Oidium	1	13						
Other brown	1	13						
Other colorless								
Penicillium/Aspergillus types†			1	53				
Pithomyces	1	13						
Rusts	2	27						
Smuts, Periconia, Myxomycetes	187	2,500			1	13		
Stachybotrys	1	13						
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	110		< 13		< 13		< 13	
Pollen/m3	270		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		15,000		160		13		< 13

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-30-2015
 Date of Receipt: 04-30-2015
 Date of Report: 05-01-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21504001-1TM24		21504001-1TM25		21504001-1TM26	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6233002-1		6233003-1		6233004-1	
Analysis Date:	05/01/2015		05/01/2015		05/01/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other brown			1	13		
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts	1	13	1	13		
Smuts, Periconia, Myxomycetes					1	13
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	13		13		27	
Pollen/m3	27		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		13		27		13

Comments:

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

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21504001-1

Date of Sampling: 04-30-2015
Date of Receipt: 04-30-2015
Date of Report: 05-01-2015

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21504001-1TM20OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: April in California† (n‡=19176)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	93	13	13	27	53	93	53	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	40	9	7	13	13	27	50	12
Chaetomium	27	8	13	13	27	40	18	8	13	13	27	50	19
Cladosporium	12,000	110	160	430	1,100	1,900	96	110	210	610	1,700	2,800	97
Curvularia	-	7	8	13	13	27	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Other brown	13	13	13	13	40	53	33	13	13	13	40	53	34
Penicillium/Aspergillus types	-	53	53	160	430	690	78	53	100	210	610	1,000	84
Pithomyces	13	7	8	13	13	27	2	7	13	13	27	53	4
Stachybotrys	13	8	13	13	33	75	4	7	13	13	33	67	4
Torula	-	10	13	13	44	73	14	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	210	27	53	110	390	750	74	25	53	110	370	700	71
Basidiospores	850	53	80	270	960	2,000	93	53	80	270	1,000	2,400	93
Oidium	13	13	13	27	53	93	31	13	13	13	47	75	19
Rusts	27	13	13	24	53	93	34	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	2,500	13	13	40	110	210	67	13	13	40	110	210	68
§ TOTAL SPORES/m3	15,000												

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

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

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

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

‡n = number of samples used to calculate data.

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-30-2015
 Date of Receipt: 04-30-2015
 Date of Report: 05-01-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21504001-1TM20OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				93	7 - 40 - 610	45
Ascospores				210	13 - 210 - 6,000	76
Basidiospores				850	15 - 440 - 24,000	92
Chaetomium				27	7 - 13 - 160	9
Cladosporium				12,000	27 - 480 - 10,000	90
Oidium				13	7 - 13 - 210	11
Other brown				13	7 - 13 - 130	24
Penicillium/Aspergillus types				< 13	13 - 170 - 2,700	68
Pithomyces				13	7 - 20 - 570	15
Rusts				27	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes				2,500	7 - 53 - 920	64
Stachybotrys				13	7 - 13 - 510	2
Total				15,000		

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

Indoor Samples

Location: 21504001-1TM21

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 5 Result: 2.2857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2857	dF: 12 Result: 0.3409 Critical value: 0.4965 Outside Similar: No	Score: 108 Result: Low
Species Detected	Spores/m3			
	<100	1K	10K	>100K
Ascospores				53
Cladosporium				53
Penicillium/Aspergillus types				53
Total				160

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-30-2015
 Date of Receipt: 04-30-2015
 Date of Report: 05-01-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21504001-1TM22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 2.2857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.6000 Critical value: 0.5273 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					13
Total					13

Location: 21504001-1TM23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 2.2857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					< 13

Location: 21504001-1TM24

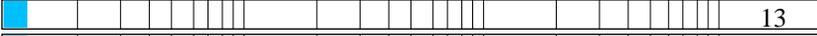
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 2.2857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.3750 Critical value: 0.5273 Outside Similar: No	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Rusts					13
Total					13

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-30-2015
 Date of Receipt: 04-30-2015
 Date of Report: 05-01-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21504001-1TM25

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 2.2857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3077	dF: 11 Result: 0.1000 Critical value: 0.5273 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Other brown					13
Rusts					13
Total					27

Location: 21504001-1TM26

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 2.2857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.6000 Critical value: 0.5273 Outside Similar: Yes	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.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21504001-1

Date of Sampling: 04-30-2015
Date of Receipt: 04-30-2015
Date of Report: 05-01-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-30-2015
 Date of Receipt: 04-30-2015
 Date of Report: 05-01-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21504001-1TM20OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					7	93
Bipolaris/Drechslera group					ND	< 13
Chaetomium					2	27
Cladosporium					217	12,000
Curvularia					ND	< 13
Nigrospora					ND	< 13
Other brown					1	13
Penicillium/Aspergillus types†					ND	< 13
Pithomyces					1	13
Stachybotrys					1	13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					4	210
Basidiospores					16	850
Oidium					1	13
Rusts					2	27
Smuts, Periconia, Myxomycetes					187	2,500
Total						15,333

Location: 21504001-1TM21

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

MoldSCORE‡		Score
100	200	
		100
		100
		100
		100
		100
		100
		108
		100
		100
		120
		100
		100
		100
Final MoldSCORE		108

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-30-2015
 Date of Receipt: 04-30-2015
 Date of Report: 05-01-2015

MoldSCORE™: Spore Trap Report

Location: 21504001-1TM22

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				
							Final MoldSCORE			102

Location: 21504001-1TM23

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-30-2015
 Date of Receipt: 04-30-2015
 Date of Report: 05-01-2015

MoldSCORE™: Spore Trap Report

Location: 21504001-1TM24

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

Location: 21504001-1TM25

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21504001-1

Date of Sampling: 04-30-2015
 Date of Receipt: 04-30-2015
 Date of Report: 05-01-2015

MoldSCORE™: Spore Trap Report

Location: 21504001-1TM26

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

* 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.



001359283

HYGIENE TECHNOLOGIES INTERNATIONAL

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

Request For Analysis

Project Number/Purchase Order: 21504001-1Date Submitted: 04-30-15Project Contact: L. Sandhu/K.HsiTurnaround Required: NormalLab Destination: EMLAB P & KLab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21504001-1TM20OUT	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21504001-1TM21	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21504001-1TM22	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21504001-1TM23	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21504001-1TM24	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21504001-1TM25	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21504001-1TM26	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)

Special Instructions : Random Sampling (Round 4)

1. Sampled by: [Signature] on 04-30-15@1115 hrs Received by: [Signature] on 04/30/15
 2. Relinquished by: [Signature] on 04-30-15@1420 hrs Received by: _____
 3. Relinquished by: _____ Received by: _____

Please include signature, date, and time

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