HYGIENETECH
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
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(310) 370-8370
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October 16, 2015

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

Document No. 21508001.1

Attention: Edna B. Murphy
Deputy Director Administration Department

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

Dear Ms. Murphy:

On August 6, 13, 17 and 27, 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 21508001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Bipolaris/Drechslera* group, *Chaetomium*, C*ladosporium*, colorless spores typical of *Penicillium*/*Aspergillus* species, *Epicoccum*, *Nigrospora*, other brown, *Pithomyces*, rust, and/or smuts. 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*, basidiospores, *Bipolaris/Drechslera* group, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium*/*Aspergillus* species, *Curvularia*, *Oidium*, other brown, rusts, smuts and/or *Stemphylium*. The distribution of fungal spore types detected in the surveyed areas was consistent with those found outdoors, and the overall data within the tested areas were well below the overall outdoor data recorded. These data are considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

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

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

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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 21508001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
AUGUST 6, 13, 17, AND 27, 2015

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21508001-1 TM01OUT	21508001-1 TM02	21508001-1 TM03	21508001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities	3rd Floor; Break Room 304; about center; approximately five feet above floor/ Normal break room activities	4th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	7th Floor; Break Room 707; about center; approximately five feet above floor/Normal break room activities
DATE	08/06/15	08/06/15	08/06/15	08/06/15
START/STOP	10:51:00/10:56:00	11:00:00/11:05:00	11:08:00/11:13:00	11:15:00/11:20:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	27			
Ascospores	160			
Basidiospores	1,200			
Bipolaris/Drechslera group	13			
Botrytis				
Chaetomium				
Cladosporium	2,600			53
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown	13	13		
Other colorless				
Penicillium/Aspergillus types	210			
Pithomyces	13			
Rusts	80			
Smuts (Periconia, Myxomycetes)	410			
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	40	<13	<13	<13
Background debris*	3+	2+	2+	2+
TOTAL**	4,800	13	<13	53

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

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

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450 N STREET
SACRAMENTO, CALIFORNIA
AUGUST 6, 13, 17, AND 27, 2015

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21508001-1 TM05	21508001-1 TM06	21508001-1 TM07OUT	21508001-1 TM08
SAMPLING LOCATION/ACTIVITIES	8th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	9th Floor; Column K21 area; Cubicle 80; about center; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet west of the building; approximately five feet above ground/Normal outdoor activities	5th Floor; southern corridor; adjacent to Telephone Equipment Room entry door; approximately five feet above floor/Normal office activities
DATE	08/06/15	08/06/15	08/13/15	08/13/15
START/STOP	11:22:00/11:27:00	11:29:00/11:34:00	09:44:00/09:49:00	09:53:00/09:58:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			93	
Ascospores			53	
Basidiospores			110	
Bipolaris/Drechslera group		13		
Botrytis				
Chaetomium			27	
Cladosporium		53	160	110
Curvularia				
Epicoccum			13	
Fusarium				
Nigrospora				
Oidium				
Other brown			13	
Penicillium/Aspergillus types			53	53
Pithomyces			13	
Rusts		13	40	
Smuts (Periconia, Myxomycetes)			830	110
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	13	250	13
Background debris*	2+	2+	3+	2+
TOTAL**	<13	80	1,400	270

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

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SACRAMENTO, CALIFORNIA
AUGUST 6, 13, 17, AND 27, 2015

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21508001-1 TM09	21508001-1 TM10	21508001-1 TM11	21508001-1 TM12
SAMPLING LOCATION/ACTIVITIES	6th Floor; northern corridor; adjacent to northwestern drinking fountain; approximately five feet above floor/Normal office activities	15th Floor; northern corridor; adjacent to northwestern drinking fountain; approximately five feet above floor/Normal office activities	16th Floor; Column K21 area; about 15 feet north of Column K21; approximately five feet above floor/Normal office activities	18th Floor; Column N22 area; about five feet east of Column N22; approximately five feet above floor/Normal office activities
DATE	08/13/15	08/13/15	08/13/15	08/13/15
START/STOP	10:01:00/10:06:00	10:11:00/10:16:00	10:18:00/10:23:00	10:26:00/10:31:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13			
Arthrinium				
Ascospores				
Basidiospores		53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53			
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types		53		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	53	13	13	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	27	<13	<13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	120	120	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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AUGUST 6, 13, 17, AND 27, 2015

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21508001-1 TM13	21508001-1 TM14OUT	21508001-1 TM15	21508001-1 TM16
SAMPLING LOCATION/ACTIVITIES	21st Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	Outdoors; about 30 feet northeast of the main entrance; approximately five feet above ground/Normal outdoor activities	1st Floor; Women Restroom adjacent to Low-Rise Elevator Lobby; approximately five feet above floor/Sampling activities only	11th Floor; Men Restroom; about center; approximately five feet above floor/Normal restroom activities
DATE	08/13/15	08/17/15	08/17/15	08/17/15
START/STOP	10:34:00/10:39:00	10:17:00/10:22:00	10:24:00/10:29:00	10:33:00/10:38:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13	40		
Ascospores		160		
Basidiospores		270		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium		27		
Cladosporium		1,300		53
Curvularia				
Epicoccum				
Nigrospora		27		
Oidium			13	
Other brown				
Other colorless				
Penicillium/Aspergillus types		690		270
Pithomyces				
Rusts				13
Smuts (Periconia, Myxomycetes)		120		27
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	13	67	<13	<13
Background debris*	2+	3+	2+	2+
TOTAL**	13	2,600	13	360

*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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AUGUST 6, 13, 17, AND 27, 2015

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21508001-1 TM17	21508001-1 TM18	21508001-1 TM19	21508001-1 TM20OUT
SAMPLING LOCATION/ACTIVITIES	17th Floor; Column O19 area; Cubicle 116; about center; approximately five feet above floor/Normal office activities	20th Floor; Elevator Lobby; about center approximately five feet above floor/Normal office activities	23rd Floor; Break Room 2302; about center; approximately five feet above floor/Normal office activities	Outdoors; about 20 feet south of the building; approximately five feet above ground/Normal outdoor activities
DATE	08/17/15	08/17/15	08/17/15	08/27/15
START/STOP	10:41:00/10:46:00	10:49:00/10:54:00	10:57:00/11:02:00	15:09:00/15:14:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				40
Ascospores				
Basidiospores				480
Bipolaris/Drechslera group				13
Botrytis				
Chaetomium				67
Cladosporium				1,200
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				27
Penicillium/Aspergillus types				480
Pithomyces				
Rusts		13		
Smuts (Periconia, Myxomycetes)	13	13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	,13	80
Background debris*	2+	2+	2+	3+
TOTAL**	13	27	<13	2,300

*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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AUGUST 6, 13, 17, AND 27, 2015

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**21508001-1 TM21**	**21508001-1 TM22**	**21508001-1 TM23**	**21508001-1 TM24**
SAMPLING LOCATION/ACTIVITIES	2nd Floor; Column L23 area; Cubicle 55 entry area; approximately feet above floor/Normal office activities	10th Floor; Column K17 area; about three feet north of Column K17; approximately feet above floor/Normal office activities	14th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	19th Floor; Break Room 1915; about center; approximately feet above floor/Normal office activities
DATE	08/27/15	08/27/15	08/27/15	08/27/15
START/STOP	15:19:00/15:24:00	15:38:00/15:43:00	15:51:00/15:56:00	15:58:00/16:03:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		40	27	
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium			13	
Cladosporium			110	
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types			53	
Pithomyces				
Rusts				13
Smuts (Periconia, Myxomycetes)			40	
Stachybotrys				
Stemphylium			13	
Torula				
Ulocladium				
Hyphal fragments	<13	<13	27	13
Background debris*	1+	2+	3+	2+
TOTAL**	<13	40	250	13

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

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SACRAMENTO, CALIFORNIA
AUGUST 6, 13, 17, AND 27, 2015

SAMPLE NUMBER	21508001-1 TM25	21508001-1 TM26		
SAMPLING LOCATION/ACTIVITIES	22nd Floor; Room 2225 about 10 feet southwest of entry door; approximately five feet above floor/Normal Office activities	24th Floor; Room 2419; about four feet south of entry door; approximately five feet above floor/Sampling activities only	This column intentionally left blank	This column intentionally left blank
DATE	08/27/15	08/27/15		
START/STOP	16:08:00/16:13:00	16:24:00/16:29:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Ascospores				
Basidiospores	53			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia	13			
Epicoccum				
Helicoma				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	13	<13		
Background debris*	2+	1+		
TOTAL**	67	<13		

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

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Report for:

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

Regarding: Project: 21508001-1
EML ID: 1404240

Approved by:

Technical Manager
Louise White

Dates of Analysis:
Spore trap analysis: 08-06-2015

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.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-06-2015
Date of Receipt: 08-06-2015
Date of Report: 08-07-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21508001-1TM01OUT		21508001-1TM02		21508001-1TM03	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6461734-1		6461735-1		6461736-1	
Analysis Date:	08/06/2015		08/06/2015		08/06/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27				
Ascospores	3	160				
Basidiospores	22	1,200				
Bipolaris/Drechslera group	1	13				
Chaetomium						
Cladosporium	48	2,600				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown	1	13	1	13		
Other colorless						
Penicillium/Aspergillus types†	4	210				
Pithomyces	1	13				
Rusts	6	80				
Smuts, Periconia, Myxomycetes	31	410				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		2+		2+	
Hyphal fragments/m3	120		< 13		13	
Pollen/m3	< 13		< 13		13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		4,700		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 then reported. It is important to account for samples volumes when evaluating dust levels.

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

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

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-06-2015
Date of Receipt: 08-06-2015
Date of Report: 08-07-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21508001-1TM04		21508001-1TM05		21508001-1TM06	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6461737-1		6461738-1		6461739-1	
Analysis Date:	08/06/2015		08/06/2015		08/06/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Bipolaris/Drechslera group					1	13
Chaetomium						
Cladosporium	1	53			1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts					1	13
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		53		< 13		80

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
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For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-06-2015
Date of Receipt: 08-06-2015
Date of Report: 08-07-2015

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21508001-1TM01OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California† (n‡=19100)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	27	13	13	27	53	93	58	13	13	27	63	100	53
Bipolaris/Drechslera group	13	10	13	13	27	53	16	7	13	13	27	50	12
Chaetomium	-	10	13	13	27	53	24	8	13	13	27	50	19
Cladosporium	2,600	160	270	690	1,600	2,500	99	110	210	610	1,700	2,800	97
Curvularia	-	8	13	13	27	53	12	7	13	13	27	53	6
Nigrospora	-	7	13	13	27	53	12	7	13	13	27	53	9
Other brown	13	13	13	13	40	53	35	13	13	13	40	53	34
Penicillium/Aspergillus types	210	53	110	270	650	1,100	88	53	100	210	610	1,000	84
Pithomyces	13	7	13	13	27	53	6	7	13	13	27	53	4
Stachybotrys	-	7	13	13	27	60	5	7	13	13	33	67	4
Torula	-	10	13	13	40	67	14	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	160	13	33	80	210	320	67	25	53	110	370	700	71
Basidiospores	1,200	40	53	160	370	640	92	53	80	270	1,000	2,400	93
Rusts	80	11	13	13	40	67	25	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	410	13	13	40	94	160	70	13	13	40	110	210	68
§ TOTAL SPORES/m3	4,700												

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

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

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

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

‡n = number of samples used to calculate data.

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

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(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-06-2015
Date of Receipt: 08-06-2015
Date of Report: 08-07-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21508001-1TM01OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	27	7 - 40 - 600	45
Ascospores	160	13 - 210 - 6,100	76
Basidiospores	1,200	13 - 430 - 24,000	92
Bipolaris/Drechslera group	13	7 - 13 - 250	16
Cladosporium	2,600	27 - 480 - 10,000	90
Other brown	13	7 - 17 - 130	24
Penicillium/Aspergillus types	210	13 - 170 - 2,700	68
Pithomyces	13	7 - 20 - 560	15
Rusts	80	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes	410	7 - 53 - 930	64
Total	4,700		

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 occurence 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: 21508001-1TM02

% 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: 3.7500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.1636 Critical value: 0.5515 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Other brown	13
Total	13

Location: 21508001-1TM03

% 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: 3.7500 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

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Re: 21508001-1

Date of Sampling: 08-06-2015
Date of Receipt: 08-06-2015
Date of Report: 08-07-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21508001-1TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 3.7500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.6485 Critical value: 0.5515 Outside Similar: Yes	Score: 102 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	53
Total	53

Location: 21508001-1TM05

% 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: 3.7500 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: 21508001-1TM06

% 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: 3.7500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.2939 Critical value: 0.5515 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Bipolaris/Drechslera group	13
Cladosporium	53
Rusts	13
Total	80

* 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.

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Re: 21508001-1

Date of Sampling: 08-06-2015
Date of Receipt: 08-06-2015
Date of Report: 08-07-2015

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&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

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

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-06-2015
Date of Receipt: 08-06-2015
Date of Report: 08-07-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21508001-1TM01OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		2	27
Bipolaris/Drechslera group		1	13
Chaetomium		ND	< 13
Cladosporium		48	2,600
Curvularia		ND	< 13
Nigrospora		ND	< 13
Other brown		1	13
Penicillium/Aspergillus types†		4	210
Pithomyces		1	13
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		3	160
Basidiospores		22	1,200
Rusts		6	80
Smuts, Periconia, Myxomycetes		31	410
Total			**4,667**

Location: 21508001-1TM02

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

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Re: 21508001-1

Date of Sampling: 08-06-2015
Date of Receipt: 08-06-2015
Date of Report: 08-07-2015

MoldSCORE™: Spore Trap Report

Location: 21508001-1TM03

Fungi Identified	Indoor sample spores/m3 (<100, 1K, 10K, >100K)	Raw count	Spores/ m3	MoldSCORE‡ (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: 21508001-1TM04

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

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Re: 21508001-1

Date of Sampling: 08-06-2015
Date of Receipt: 08-06-2015
Date of Report: 08-07-2015

MoldSCORE™: Spore Trap Report

Location: 21508001-1TM05

Fungi Identified	Indoor sample spores/m3 (<100, 1K, 10K, >100K)	Raw count	Spores/ m3	MoldSCORE‡ (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: 21508001-1TM06

Fungi Identified	Indoor sample spores/m3 (<100, 1K, 10K, >100K)	Raw count	Spores/ m3	MoldSCORE‡ (100, 200, 300)	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		1	13		105
Chaetomium		ND	< 13		100
Cladosporium		1	53		101
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		1	13		105
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**80**	**Final MoldSCORE**	**105**

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-06-2015
Date of Receipt: 08-06-2015
Date of Report: 08-07-2015

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: 21508001-1
EML ID: 1407925

Approved by:

Technical Manager
Louise White

Dates of Analysis:
Spore trap analysis: 08-14-2015

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.

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-13-2015
Date of Receipt: 08-13-2015
Date of Report: 08-14-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21508001-1TM07OUT		21508001-1TM08		21508001-1TM09		21508001-1TM10	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6481245-1		6481246-1		6481247-1		6481248-1	
Analysis Date:	08/14/2015		08/14/2015		08/14/2015		08/14/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	7	93			1	13		
Ascospores	1	53						
Basidiospores	2	110					1	53
Chaetomium	2	27						
Cladosporium	3	160	2	110	1	53		
Epicoccum	1	13						
Fusarium								
Myrothecium								
Nigrospora								
Other brown	1	13						
Other colorless								
Penicillium/Aspergillus types†	1	53	1	53			1	53
Pithomyces	1	13						
Rusts	3	40						
Smuts, Periconia, Myxomycetes	62	830	8	110	4	53	1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		2+		2+		2+	
Hyphal fragments/m3	250		13		27		< 13	
Pollen/m3	53		< 13		13		13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		1,400		270		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 then reported. It is important to account for samples volumes when evaluating dust levels.

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

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

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Re: 21508001-1

Date of Sampling: 08-13-2015
Date of Receipt: 08-13-2015
Date of Report: 08-14-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21508001-1TM11		21508001-1TM12		21508001-1TM13	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6481249-1		6481250-1		6481251-1	
Analysis Date:	08/14/2015		08/14/2015		08/14/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	1	13				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		13	
Pollen/m3	< 13		< 13		13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		13		< 13		13

Comments:

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

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

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

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Date of Sampling: 08-13-2015
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Date of Report: 08-14-2015

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21508001-1TM07OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California† (n‡=19100)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	93	13	13	27	53	93	58	13	13	27	63	100	53
Bipolaris/Drechslera group	-	10	13	13	27	53	16	7	13	13	27	50	12
Chaetomium	27	10	13	13	27	53	24	8	13	13	27	50	19
Cladosporium	160	160	270	690	1,600	2,500	99	110	210	610	1,700	2,800	97
Curvularia	-	8	13	13	27	53	12	7	13	13	27	53	6
Epicoccum	13	8	13	13	33	53	22	8	13	13	38	53	19
Nigrospora	-	7	13	13	27	53	12	7	13	13	27	53	9
Other brown	13	13	13	13	40	53	35	13	13	13	40	53	34
Penicillium/Aspergillus types	53	53	110	270	650	1,100	88	53	100	210	610	1,000	84
Pithomyces	13	7	13	13	27	53	6	7	13	13	27	53	4
Stachybotrys	-	7	13	13	27	60	5	7	13	13	33	67	4
Torula	-	10	13	13	40	67	14	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	53	13	33	80	210	320	67	25	53	110	370	700	71
Basidiospores	110	40	53	160	370	640	92	53	80	270	1,000	2,400	93
Rusts	40	11	13	13	40	67	25	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	830	13	13	40	94	160	70	13	13	40	110	210	68
§ TOTAL SPORES/m3	1,400												

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

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

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

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

‡n = number of samples used to calculate data.

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

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-13-2015
Date of Receipt: 08-13-2015
Date of Report: 08-14-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21508001-1TM07OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	93	7 - 40 - 600	45
Ascospores	53	13 - 210 - 6,100	76
Basidiospores	110	13 - 430 - 24,000	92
Chaetomium	27	7 - 13 - 160	9
Cladosporium	160	27 - 480 - 10,000	90
Epicoccum	13	7 - 22 - 330	24
Other brown	13	7 - 17 - 130	24
Penicillium/Aspergillus types	53	13 - 170 - 2,700	68
Pithomyces	13	7 - 20 - 550	15
Rusts	40	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes	830	7 - 53 - 950	64
Total	1,400		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence 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: 21508001-1TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 19%	dF: 5 Result: 5.5714 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4286	dF: 11 Result: 0.7159 Critical value: 0.5273 Outside Similar: Yes	Score: 107 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	110
Penicillium/Aspergillus types	53
Smuts, Periconia, Myxomycetes	110
Total	270

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Re: 21508001-1

Date of Sampling: 08-13-2015
Date of Receipt: 08-13-2015
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21508001-1TM09

% 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: 5.5714 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4286	dF: 11 Result: 0.7773 Critical value: 0.5273 Outside Similar: Yes	Score: 104 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	13
Cladosporium	53
Smuts, Periconia, Myxomycetes	53
Total	120

Location: 21508001-1TM10

% 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: 5.5714 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4286	dF: 11 Result: 0.6000 Critical value: 0.5273 Outside Similar: Yes	Score: 108 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	53
Penicillium/Aspergillus types	53
Smuts, Periconia, Myxomycetes	13
Total	120

Location: 21508001-1TM11

% 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: 5 Result: 5.5714 Critical value: 11.0705 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.6364 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

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Re: 21508001-1

Date of Sampling: 08-13-2015
Date of Receipt: 08-13-2015
Date of Report: 08-14-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21508001-1TM12

% 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: 5 Result: 5.5714 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

Location: 21508001-1TM13

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 5.5714 Critical value: 11.0705 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.4864 Critical value: 0.5273 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	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.

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Re: 21508001-1

Date of Sampling: 08-13-2015
Date of Receipt: 08-13-2015
Date of Report: 08-14-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-13-2015
Date of Receipt: 08-13-2015
Date of Report: 08-14-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21508001-1TM07OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		7	93
Bipolaris/Drechslera group		ND	< 13
Chaetomium		2	27
Cladosporium		3	160
Curvularia		ND	< 13
Epicoccum		1	13
Nigrospora		ND	< 13
Other brown		1	13
Penicillium/Aspergillus types†		1	53
Pithomyces		1	13
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		1	53
Basidiospores		2	110
Rusts		3	40
Smuts, Periconia, Myxomycetes		62	830
Total			**1,400**

Location: 21508001-1TM08

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		106
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		107
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		8	110		100
Total			**267**	**Final MoldSCORE**	**107**

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Re: 21508001-1

Date of Sampling: 08-13-2015
Date of Receipt: 08-13-2015
Date of Report: 08-14-2015

MoldSCORE™: Spore Trap Report

Location: 21508001-1TM09

Fungi Identified	Indoor sample spores/m3 (<100, 1K, 10K, >100K)	Raw count	Spores/ m3	MoldSCORE‡ (100, 200, 300)	Score
Generally able to grow indoors*					
Alternaria		1	13		103
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		4	53		101
Total			**120**	**Final MoldSCORE**	**103**

Location: 21508001-1TM10

Fungi Identified	Indoor sample spores/m3 (<100, 1K, 10K, >100K)	Raw count	Spores/ m3	MoldSCORE‡ (100, 200, 300)	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		108
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		100
Total			**120**	**Final MoldSCORE**	**108**

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Re: 21508001-1

Date of Sampling: 08-13-2015
Date of Receipt: 08-13-2015
Date of Report: 08-14-2015

MoldSCORE™: Spore Trap Report

Location: 21508001-1TM11

Fungi Identified	Indoor sample spores/m3 (<100, 1K, 10K, >100K)	Raw count	Spores/ m3	MoldSCORE‡ (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: 21508001-1TM12

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

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Re: 21508001-1

Date of Sampling: 08-13-2015
Date of Receipt: 08-13-2015
Date of Report: 08-14-2015

MoldSCORE™: Spore Trap Report

Location: 21508001-1TM13

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

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

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

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

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

Report for:

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

Regarding: Project: 21508001-1
EML ID: 1409473

Approved by:

Technical Manager
Louise White

Dates of Analysis:
Spore trap analysis: 08-18-2015

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

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

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

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-17-2015
Date of Receipt: 08-17-2015
Date of Report: 08-18-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21508001-1TM14OUT		21508001-1TM15		21508001-1TM16	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6488625-1		6488626-1		6488627-1	
Analysis Date:	08/18/2015		08/18/2015		08/18/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	3	40				
Ascospores	3	160				
Basidiospores	5	270				
Chaetomium	2	27				
Cladosporium	24	1,300			1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora	2	27				
Oidium			1	13		
Other colorless						
Penicillium/Aspergillus types†	13	690			5	270
Pithomyces						
Rusts					1	13
Smuts, Periconia, Myxomycetes	9	120			2	27
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		2+		2+	
Hyphal fragments/m3	67		< 13		< 13	
Pollen/m3	13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		2,600		13		360

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 then reported. It is important to account for samples volumes when evaluating dust levels.

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

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

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-17-2015
Date of Receipt: 08-17-2015
Date of Report: 08-18-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21508001-1TM17		21508001-1TM18		21508001-1TM19	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6488628-1		6488629-1		6488630-1	
Analysis Date:	08/18/2015		08/18/2015		08/18/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts			1	13		
Smuts, Periconia, Myxomycetes	1	13	1	13		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 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 then reported. It is important to account for samples volumes when evaluating dust levels.

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

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

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Re: 21508001-1

Date of Sampling: 08-17-2015
Date of Receipt: 08-17-2015
Date of Report: 08-18-2015

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21508001-1TM14OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California† (n‡=19100)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	40	13	13	27	53	93	58	13	13	27	63	100	53
Bipolaris/Drechslera group	-	10	13	13	27	53	16	7	13	13	27	50	12
Chaetomium	27	10	13	13	27	53	24	8	13	13	27	50	19
Cladosporium	1,300	160	270	690	1,600	2,500	99	110	210	610	1,700	2,800	97
Curvularia	-	8	13	13	27	53	12	7	13	13	27	53	6
Nigrospora	27	7	13	13	27	53	12	7	13	13	27	53	9
Penicillium/Aspergillus types	690	53	110	270	650	1,100	88	53	100	210	610	1,000	84
Stachybotrys	-	7	13	13	27	60	5	7	13	13	33	67	4
Torula	-	10	13	13	40	67	14	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	160	13	33	80	210	320	67	25	53	110	370	700	71
Basidiospores	270	40	53	160	370	640	92	53	80	270	1,000	2,400	93
Oidium	-	13	13	13	40	67	19	13	13	13	47	75	19
Rusts	-	11	13	13	40	67	25	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	120	13	13	40	94	160	70	13	13	40	110	210	68
§ TOTAL SPORES/m3	2,600												

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

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

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

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

‡n = number of samples used to calculate data.

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

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-17-2015
Date of Receipt: 08-17-2015
Date of Report: 08-18-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21508001-1TM14OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	40	7 - 40 - 600	45
Ascospores	160	13 - 210 - 6,100	76
Basidiospores	270	13 - 430 - 24,000	92
Chaetomium	27	7 - 13 - 160	9
Cladosporium	1,300	27 - 480 - 10,000	90
Nigrospora	27	7 - 13 - 240	16
Penicillium/Aspergillus types	690	13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes	120	7 - 53 - 950	64
Total	2,600		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence 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: 21508001-1TM15

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 5.7200 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: 9 Result: 0.0542 Critical value: 0.5833 Outside Similar: No	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Oidium	13
Total	13

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Re: 21508001-1

Date of Sampling: 08-17-2015
Date of Receipt: 08-17-2015
Date of Report: 08-18-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21508001-1TM16

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 13%	dF: 4 Result: 5.7200 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5000	dF: 9 Result: 0.5208 Critical value: 0.5833 Outside Similar: No	Score: 128 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	53
Penicillium/Aspergillus types	270
Rusts	13
Smuts, Periconia, Myxomycetes	27
Total	360

Location: 21508001-1TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 5.7200 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.2917 Critical value: 0.6190 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Smuts, Periconia, Myxomycetes	13
Total	13

Location: 21508001-1TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 5.7200 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: -0.0583 Critical value: 0.5833 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Rusts	13
Smuts, Periconia, Myxomycetes	13
Total	27

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Re: 21508001-1

Date of Sampling: 08-17-2015
Date of Receipt: 08-17-2015
Date of Report: 08-18-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21508001-1TM19

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 5.7200 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 — 1K — 10K — >100K)
None Detected	< 13

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

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

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

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

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

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-17-2015
Date of Receipt: 08-17-2015
Date of Report: 08-18-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21508001-1TM14OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		3	40
Bipolaris/Drechslera group		ND	< 13
Chaetomium		2	27
Cladosporium		24	1,300
Curvularia		ND	< 13
Nigrospora		2	27
Penicillium/Aspergillus types†		13	690
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		3	160
Basidiospores		5	270
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes		9	120
Total			**2,613**

Location: 21508001-1TM15

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 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
Oidium		1	13		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**13**	**Final MoldSCORE**	**100**

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Re: 21508001-1

Date of Sampling: 08-17-2015
Date of Receipt: 08-17-2015
Date of Report: 08-18-2015

MoldSCORE™: Spore Trap Report

Location: 21508001-1TM16

Fungi Identified	Indoor sample spores/m3 (<100, 1K, 10K, >100K)	Raw count	Spores/ m3	MoldSCORE‡ (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†		5	270		128
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		2	27		102
Total			**360**	**Final MoldSCORE**	**128**

Location: 21508001-1TM17

Fungi Identified	Indoor sample spores/m3 (<100, 1K, 10K, >100K)	Raw count	Spores/ m3	MoldSCORE‡ (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**

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-17-2015
Date of Receipt: 08-17-2015
Date of Report: 08-18-2015

MoldSCORE™: Spore Trap Report

Location: 21508001-1TM18

Fungi Identified	Indoor sample spores/m3 (<100, 1K, 10K, >100K)	Raw count	Spores/ m3	MoldSCORE‡ (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		1	13		102
Total			**27**	**Final MoldSCORE**	**102**

Location: 21508001-1TM19

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

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-17-2015
Date of Receipt: 08-17-2015
Date of Report: 08-18-2015

MoldSCORE™: Spore Trap Report

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

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

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

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

Report for:

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

Regarding: Project: 21508001-1
EML ID: 1416384

Approved by:

Technical Manager
Louise White

Dates of Analysis:
Spore trap analysis: 08-28-2015

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.

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-27-2015
Date of Receipt: 08-28-2015
Date of Report: 08-31-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21508001-1TM20OUT		21508001-1TM21		21508001-1TM22		21508001-1TM23	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6522456-1		6522457-1		6522458-1		6522459-1	
Analysis Date:	08/28/2015		08/28/2015		08/28/2015		08/28/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	3	40			3	40	2	27
Ascospores								
Basidiospores	9	480						
Bipolaris/Drechslera group	1	13						
Chaetomium	5	67					1	13
Cladosporium	22	1,200					2	110
Curvularia								
Fusarium								
Myrothecium								
Nigrospora								
Other brown	2	27						
Other colorless								
Penicillium/Aspergillus types†	9	480					1	53
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes							3	40
Stachybotrys								
Stemphylium							1	13
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		1+		2+		3+	
Hyphal fragments/m3	80		< 13		< 13		27	
Pollen/m3	40		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		2,300		< 13		40		250

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 then reported. It is important to account for samples volumes when evaluating dust levels.

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

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

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21508001-1

Date of Sampling: 08-27-2015
Date of Receipt: 08-28-2015
Date of Report: 08-31-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21508001-1TM24		21508001-1TM25		21508001-1TM26	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6522460-1		6522461-1		6522462-1	
Analysis Date:	08/28/2015		08/28/2015		08/28/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores			1	53		
Bipolaris/Drechslera group						
Chaetomium						
Cladosporium						
Curvularia			1	13		
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts	1	13				
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		1+	
Hyphal fragments/m3	13		13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		13		67		< 13

Comments:

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

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

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

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MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21508001-1TM20OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California† (n‡=19100)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	40	13	13	27	53	93	58	13	13	27	63	100	53
Bipolaris/Drechslera group	13	10	13	13	27	53	16	7	13	13	27	50	12
Chaetomium	67	10	13	13	27	53	24	8	13	13	27	50	19
Cladosporium	1,200	160	270	690	1,600	2,500	99	110	210	610	1,700	2,800	97
Curvularia	-	8	13	13	27	53	12	7	13	13	27	53	6
Nigrospora	-	7	13	13	27	53	12	7	13	13	27	53	9
Other brown	27	13	13	13	40	53	35	13	13	13	40	53	34
Penicillium/Aspergillus types	480	53	110	270	650	1,100	88	53	100	210	610	1,000	84
Stachybotrys	-	7	13	13	27	60	5	7	13	13	33	67	4
Stemphylium	-	7	13	13	27	40	10	7	13	13	27	40	9
Torula	-	10	13	13	40	67	14	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	-	13	33	80	210	320	67	25	53	110	370	700	71
Basidiospores	480	40	53	160	370	640	92	53	80	270	1,000	2,400	93
Rusts	-	11	13	13	40	67	25	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	-	13	13	40	94	160	70	13	13	40	110	210	68
§ TOTAL SPORES/m3	2,300												

†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.

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Re: 21508001-1

Date of Sampling: 08-27-2015
Date of Receipt: 08-28-2015
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21508001-1TM20OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	40	7 - 40 - 600	45
Ascospores	< 13	13 - 210 - 6,100	76
Basidiospores	480	13 - 430 - 24,000	92
Bipolaris/Drechslera group	13	7 - 13 - 250	16
Chaetomium	67	7 - 13 - 160	9
Cladosporium	1,200	27 - 480 - 10,000	90
Other brown	27	7 - 17 - 130	24
Penicillium/Aspergillus types	480	13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes	< 13	7 - 53 - 950	64
Total	2,300		

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 occurence 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: 21508001-1TM21

% 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: 6.7778 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: 21508001-1TM22

% 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: 6.7778 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.1964 Critical value: 0.6786 Outside Similar: No	Score: 116 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	40
Total	40

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21508001-1TM23

% 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: 6.7778 Critical value: 11.0705 Inside Similar: Yes	Result: 0.6154	dF: 9 Result: 0.3500 Critical value: 0.5833 Outside Similar: No	Score: 122 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	27
Chaetomium	13
Cladosporium	110
Penicillium/Aspergillus types	53
Smuts, Periconia, Myxomycetes	40
Stemphylium	13
Total	250

Location: 21508001-1TM24

% 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: 6.7778 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: 8 Result: 0.0060 Critical value: 0.6190 Outside Similar: No	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Rusts	13
Total	13

Location: 21508001-1TM25

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 5 Result: 6.7778 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.1369 Critical value: 0.6190 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	53
Curvularia	13
Total	67

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21508001-1TM26

% 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: 6.7778 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.

**** 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&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

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Re: 21508001-1

Date of Sampling: 08-27-2015
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MoldSCORE™: Spore Trap Report

Outdoor Sample: 21508001-1TM20OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		3	40
Bipolaris/Drechslera group		1	13
Chaetomium		5	67
Cladosporium		22	1,200
Curvularia		ND	< 13
Nigrospora		ND	< 13
Other brown		2	27
Penicillium/Aspergillus types†		9	480
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		ND	< 13
Basidiospores		9	480
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes		ND	< 13
Total			**2,280**

Location: 21508001-1TM21

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

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MoldSCORE™: Spore Trap Report

Location: 21508001-1TM22

Fungi Identified	Indoor sample spores/m3 (<100, 1K, 10K, >100K)	Raw count	Spores/ m3	MoldSCORE‡ (100, 200, 300)	Score
Generally able to grow indoors*					
Alternaria		3	40		116
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			**40**	**Final MoldSCORE**	**116**

Location: 21508001-1TM23

Fungi Identified	Indoor sample spores/m3 (<100, 1K, 10K, >100K)	Raw count	Spores/ m3	MoldSCORE‡ (100, 200, 300)	Score
Generally able to grow indoors*					
Alternaria		2	27		109
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		1	13		110
Cladosporium		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		100
Stachybotrys		ND	< 13		100
Stemphylium		1	13		105
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		3	40		108
Total			**253**	**Final MoldSCORE**	**122**

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MoldSCORE™: Spore Trap Report

Location: 21508001-1TM24

Fungi Identified	Indoor sample spores/m3 (<100, 1K, 10K, >100K)	Raw count	Spores/ m3	MoldSCORE‡ (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: 21508001-1TM25

Fungi Identified	Indoor sample spores/m3 (<100, 1K, 10K, >100K)	Raw count	Spores/ m3	MoldSCORE‡ (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		1	13		105
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		104
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**67**	**Final MoldSCORE**	**105**

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MoldSCORE™: Spore Trap Report

Location: 21508001-1TM26

Fungi Identified	Indoor sample spores/m3 (<100, 1K, 10K, >100K)	Raw count	Spores/ m3	MoldSCORE‡ (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.

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

Request For Analy

001404240

Project Number/Purchase Order: 21508001-1

Date Submitted: 08-06-15

Project Contact: L. Sandhu/K.Hsi

Turnaround Required: Normal

Lab Destination: EMLAB P & K

Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21508001-1TM01OUT	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM02	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM03	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM04	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM05	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM06	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)

Special Instructions : Random Sampling (Round 1)

1. **Sampled by:** Handy on 08-06-15@1051 hrs **Received by:** 8/6/15 @ 1306
2. **Relinquished by:** Handy on 08-06-15@1300hrs **Received by:**
3. **Relinquished by:** **Received by:**

Please include signature, date, and time

Lab Use Only:

001407925

HYGIENE TECHNOLOGIES INTERNAT

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

Request For Analysis

Project Number/Purchase Order: 21508001-1

Date Submitted: 08-13-15

Project Contact: L. Sandhu/K.Hsi

Turnaround Required: Normal

Lab Destination: EMLAB P & K

Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21508001-1TM07OUT	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM08	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM09	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM10	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM11	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM12	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM13	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)

Special Instructions : Random Sampling (Round 2)

1. **Sampled by:** [signature] on 08-13-15@0944 hrs **Received by:** [signature] 08/13/15 1220pm
2. **Relinquished by:** [signature] on 08-13-15@1219 hrs **Received by:**
3. **Relinquished by:** **Received by:**

Please include signature, date, and time

Lab Use Only:

HYGIENE TECHNOLOGIES INTERNA

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

001409473

Request For Analysis

Project Number/Purchase Order: 21508001-1

Date Submitted: 08-17-15

Project Contact: L. Sandhu/K.Hsi

Turnaround Required: Normal

Lab Destination: EMLAB P & K

Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21508001-1TM14OUT	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM15	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM16	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM17	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM18	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM19	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)

Special Instructions : Random Sampling (Round 3)

1. **Sampled by:** Sandhu on 08-17-15@ 1017 hrs **Received by:** 08/17/15 12:20 pm
2. **Relinquished by:** Sandhu on 08-17-15@ 1220 hrs **Received by:**
3. **Relinquished by:** **Received by:**

Please include signature, date, and time

Lab Use Only:

HYGIENE TECHNOLOGIES INTERN

001416384

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

Request For Analysis

Project Number/Purchase Order: 21508001-1

Date Submitted: 08-28-15

Project Contact: L. Sandhu/K.Hsi

Turnaround Required: Normal

Lab Destination: EMLAB P & K

Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21508001-1TM20OUT	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM21	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM22	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM23	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM24	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM25	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21508001-1TM26	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)

Special Instructions : Random Sampling (Round 4)

1. **Sampled by:** [signature] on 08-27-15@1509 hrs **Received by:** [signature] 08/28/15 1220pm
2. **Relinquished by:** [signature] on 08-28-15@1220 hrs **Received by:** _____
3. **Relinquished by:** _____ **Received by:** _____

Please include signature, date, and time

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Chicago · Cleveland · Norfolk · New York
Abuja · Beijing