



# HYGIENETECH

Hygiene Technologies International, Inc.

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March 24, 2016

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

Document No. 21603001.3

Attention: Vince Paul

Regarding: 10<sup>th</sup> and 22<sup>nd</sup> Floors

Dear Mr. Paul:

On various dates in March of 2016, Lakhpreet Sandhu, Industrial Hygienist, with Hygiene Technologies International, Inc., (HygieneTech), visited the southeastern areas on the 10<sup>th</sup> and 22<sup>nd</sup> Floors in response to a notification of a water leak and/or to perform follow up inspections. During the visits, some degree of water staining was observed on the ceiling tiles in the areas impacted by water intrusion, which were subsequently removed and replaced by building maintenance personnel. Please note that no signs of visual mold growth were observed on any of the accessible building materials in areas impacted by water intrusion and odors characteristic of fungal growth were also not evident in the impacted areas. On March 11 and 14, during routine events involving exposure potential air sampling for total fungi, air samples were collected on the 10<sup>th</sup> and 22<sup>nd</sup> Floor areas. The survey findings, along with the analytical data, conclusions, and recommendations if applicable, appear below.

On the survey dates, air samples were collected for total (viable and nonviable) fungi analyses using a Zefon brand Bio-Pump™ equipped with Air-O-Cell® cassettes. The 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 21603001-3, the airborne spore count data recorded outdoors showed fungal spore types such as *Alternaria*, ascospores, basidiospores, *Cladosporium*, and/or smuts, with ascospores and/or basidiospores predominating. In the indoor area tested, the data showed that airborne fungal spores were detected at low airborne concentrations. The fungal spore types found indoor included basidiospores, *Botrytis*, *Nigrospora*, rust, and/or smuts. The distribution of fungal spore types detected in the surveyed area 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.

Mr. Vince Paul  
March 24, 2016  
Document No. 21603001.3 – 10<sup>th</sup> and 22<sup>nd</sup> Floors  
Page 2



Be advised that the data provided in this report only represent limited fungal growth exposure potentials that existed at the time the survey was performed and at the precise sample locations indicated, the latter of which were selected based on the available background information provided. Note that fungal growth exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, or other factors. Please also note that in the areas impacted by the water intrusion episodes, the source of the water leak(s) should be identified and necessary repairs performed, as well as detailed inspection of all the potentially impacted building materials.

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

Sincerely,

**HYGIENE TECHNOLOGIES INTERNATIONAL, INC.**

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

Kenny Hsi, CIH  
Technical Director

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



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

TABLE 21603001-3  
AIRBORNE TOTAL FUNGI RESULTS  
450 N STREET  
SACRAMENTO, CALIFORNIA  
MARCH 11 and 14, 2016

## Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	21603001-1 TM01OUT	21603001-1 TM06	21603001-1 TM07OUT	21409001-2 TM08
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet northeast of main entrance; approximately five feet above ground/Normal outdoor activities	22 <sup>nd</sup> Floor; southern quadrant area between Room 2206 and Cubicle 83; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities	10 <sup>th</sup> Floor; Column J18 area; about one foot northwest of Column J18; approximately five feet above floor/Normal office activities
DATE	03/11/16	03/11/16	03/14/16	03/14/16
START/STOP	15:40:00/15:45:00	16:19:00/16:24:00	08:58:00/09:03:00	09:08:00/09:13:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	40			
Ascospores	1,900		6,500	
Basidiospores	1,900		13,000	53
Botrytis				13
Chaetomium				
Cladosporium	750		53	
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				13
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types				
Pithomyces				
Rusts		13		
Smuts (Periconia, Myxomycetes)	13	27		13
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	40	<13	<13	<13
Background debris*	2+	3+	3+	3+
<b>TOTAL**</b>	<b>4,500</b>	<b>40</b>	<b>20,000</b>	<b>93</b>

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

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







Report for:

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

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Regarding: Project: 21603001-1  
EML ID: 1508606

Approved by:

Dates of Analysis:  
Spore trap analysis: 03-15-2016

Technical Manager  
Louise White

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

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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's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21603001-1TM01OUT	21603001-1TM02	21603001-1TM03	21603001-1TM04
Comments (see below)	None	None	None	None
Lab ID-Version‡:	6978080-1	6978081-1	6978082-1	6978083-1
Analysis Date:	03/15/2016	03/15/2016	03/15/2016	03/15/2016
	raw ct. spores/m3	raw ct. spores/m3	raw ct. spores/m3	raw ct. spores/m3
Alternaria	3 40			
Ascospores	35 1,900		1 53	3 160
Basidiospores	35 1,900			5 270
Bipolaris/Drechslera group				
Chaetomium				
Cladosporium	14 750			1 53
Fusarium				
Myrothecium				
Nigrospora				
Other brown				
Other colorless				
Penicillium/Aspergillus types†				
Pithomyces				
Rusts				
Smuts, Periconia, Myxomycetes	1 13			1 13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	2+	3+	3+	3+
Hyphal fragments/m3	40	< 13	< 13	13
Pollen/m3	1,800	13	< 13	< 13
Skin cells (1-4+)	< 1+	2+	2+	1+
Sample volume (liters)	75	75	75	75
<b>§ TOTAL SPORES/m3</b>		4,500	< 13	53

**Comments:**

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

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

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

The analytical sensitivity is the spores/m<sup>3</sup> divided by the raw count, expressed in spores/m<sup>3</sup>. The limit of detection is the analytical sensitivity (in spores/m<sup>3</sup>) multiplied by the sample volume (in liters) divided by 1000 liters.

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/m<sup>3</sup> has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
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Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21603001-1TM05		21603001-1TM06		21603001-1TM07OUT		21603001-1TM08	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6978084-1		6978085-1		6978086-1		6978087-1	
Analysis Date:	03/15/2016		03/15/2016		03/15/2016		03/15/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores					55	6,500		
Basidiospores	1	53			112	13,000	1	53
Bipolaris/Drechslera group							1	13
Chaetomium								
Cladosporium					1	53		
Fusarium								
Myrothecium								
Nigrospora							1	13
Other brown								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts			1	13				
Smuts, Periconia, Myxomycetes	1	13	2	27			1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	4+		3+		3+		4+	
Hyphal fragments/m3	27		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		160		13	
Skin cells (1-4+)	2+		1+		< 1+		2+	
Sample volume (liters)	75		75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>67</b>		<b>40</b>		<b>20,000</b>		<b>93</b>

**Comments:**

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

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

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

The analytical sensitivity is the spores/m<sup>3</sup> divided by the raw count, expressed in spores/m<sup>3</sup>. The limit of detection is the analytical sensitivity (in spores/m<sup>3</sup>) multiplied by the sample volume (in liters) divided by 1000 liters.

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/m<sup>3</sup> has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21603001-1TM09		21603001-1TM10		21603001-1TM11		21603001-1TM12	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6978088-1		6978089-1		6978090-1		6978091-1	
Analysis Date:	03/15/2016		03/15/2016		03/15/2016		03/15/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores	2	110			1	53	3	160
Basidiospores	3	160	1	53	2	110	11	590
Bipolaris/Drechslera group								
Chaetomium								
Cladosporium							2	110
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora							1	13
Other brown			1	13				
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		3+		3+		3+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+		2+	
Sample volume (liters)	75		75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>270</b>		<b>67</b>		<b>160</b>		<b>870</b>

**Comments:**

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

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

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The analytical sensitivity is the spores/m<sup>3</sup> divided by the raw count, expressed in spores/m<sup>3</sup>. The limit of detection is the analytical sensitivity (in spores/m<sup>3</sup>) multiplied by the sample volume (in liters) divided by 1000 liters.

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/m<sup>3</sup> has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
Re: 21603001-1

Date of Sampling: 03-11-2016  
Date of Receipt: 03-14-2016  
Date of Report: 03-15-2016

**MoldRANGE™: Extended Outdoor Comparison**

**Outdoor Location: 21603001-1TM01OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data for: March in California† (n‡=22640)						Typical Outdoor Data for: The entire year in California† (n‡=230445)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
<b>Generally able to grow indoors*</b>													
Alternaria	40	13	13	27	53	80	45	13	13	27	65	110	53
Bipolaris/Drechslera group	-	7	13	13	27	40	8	7	13	13	27	53	12
Chaetomium	-	7	13	13	27	40	12	8	13	13	27	48	19
Cladosporium	750	100	160	430	1,100	1,900	95	110	210	610	1,700	2,800	97
Curvularia	-	7	12	13	27	40	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Other brown	-	13	13	13	33	53	30	13	13	13	40	53	34
Penicillium/Aspergillus types	-	53	53	180	480	750	80	53	100	210	610	1,000	84
Stachybotrys	-	7	13	13	27	56	3	7	13	13	33	67	4
Torula	-	8	13	13	40	67	8	8	13	13	40	67	11
<b>Seldom found growing indoors**</b>													
Ascospores	1,900	27	53	160	480	860	78	27	53	110	370	750	71
Basidiospores	1,900	67	120	430	1,400	2,800	96	53	80	260	1,000	2,400	93
Rusts	-	13	13	13	53	80	23	13	13	13	53	87	26
Smuts, Periconia, Myxomycetes	13	13	13	27	67	110	55	13	13	40	110	200	68
<b>§ TOTAL SPORES/m3</b>	<b>4,500</b>												

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

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

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

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

‡n = number of samples used to calculate data.

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

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
Re: 21603001-1

Date of Sampling: 03-11-2016  
Date of Receipt: 03-14-2016  
Date of Report: 03-15-2016

**MoldRANGE™: Extended Outdoor Comparison**

**Outdoor Location: 21603001-1TM07OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data for: March in California† (n‡=22640)						Typical Outdoor Data for: The entire year in California† (n‡=230445)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
<b>Generally able to grow indoors*</b>													
Alternaria	-	13	13	27	53	80	45	13	13	27	65	110	53
Bipolaris/Drechslera group	-	7	13	13	27	40	8	7	13	13	27	53	12
Chaetomium	-	7	13	13	27	40	12	8	13	13	27	48	19
Cladosporium	53	100	160	430	1,100	1,900	95	110	210	610	1,700	2,800	97
Curvularia	-	7	12	13	27	40	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Other brown	-	13	13	13	33	53	30	13	13	13	40	53	34
Penicillium/Aspergillus types	-	53	53	180	480	750	80	53	100	210	610	1,000	84
Stachybotrys	-	7	13	13	27	56	3	7	13	13	33	67	4
Torula	-	8	13	13	40	67	8	8	13	13	40	67	11
<b>Seldom found growing indoors**</b>													
Ascospores	6,500	27	53	160	480	860	78	27	53	110	370	750	71
Basidiospores	13,000	67	120	430	1,400	2,800	96	53	80	260	1,000	2,400	93
Rusts	-	13	13	13	53	80	23	13	13	13	53	87	26
Smuts, Periconia, Myxomycetes	-	13	13	27	67	110	55	13	13	40	110	200	68
<b>§ TOTAL SPORES/m3</b>	20,000												

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

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

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

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

‡n = number of samples used to calculate data.

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

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Outdoor Summary: 21603001-1TM01OUT:**

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				40	7 - 40 - 590	45
Ascospores				1,900	13 - 210 - 6,100	76
Basidiospores				1,900	13 - 430 - 23,000	92
Cladosporium				750	27 - 480 - 9,900	90
Penicillium/Aspergillus types				< 13	13 - 170 - 2,600	67
Smuts, Periconia, Myxomycetes				13	7 - 53 - 930	64
<b>Total</b>				4,500		

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

**Indoor Samples**

**Location: 21603001-1TM02**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
None Detected		<100	1K	10K
				>100K
				< 13

**Location: 21603001-1TM03**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.6500 Critical value: 0.8000 Outside Similar: No	Score: 100 Result: Low
Species Detected		Spores/m3		
Ascospores		<100	1K	10K
				>100K
<b>Total</b>				53
				53

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location: 21603001-1TM04**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 10%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8889	dF: 5 Result: 0.8750 Critical value: 0.8000 Outside Similar: Yes	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					160
Basidiospores					270
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					<b>490</b>

**Location: 21603001-1TM05**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.1750 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					<b>67</b>

**Location: 21603001-1TM06**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.5000 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Rusts					13
Smuts, Periconia, Myxomycetes					27
<b>Total</b>					<b>40</b>

Client: Hygiene Technologies International, Inc.  
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 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location: 21603001-1TM08**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: -0.1071 Critical value: 0.6786 Outside Similar: No	Score: 113 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Bipolaris/Drechslera group					13
Nigrospora					13
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					93

**Location: 21603001-1TM09**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 5%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.8750 Critical value: 0.8000 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					110
Basidiospores					160
<b>Total</b>					270

**Location: 21603001-1TM10**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.2000 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Other brown					13
<b>Total</b>					67

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location: 21603001-1TM11**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.8750 Critical value: 0.8000 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					110
<b>Total</b>					160

**Location: 21603001-1TM12**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 18%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.8000 Critical value: 0.7714 Outside Similar: Yes	Score: 124 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					160
Basidiospores					590
Cladosporium					110
Nigrospora					13
<b>Total</b>					870

\* 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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Date of Sampling: 03-11-2016  
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Date of Report: 03-15-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

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

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

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**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Outdoor Summary: 21603001-1TM07OUT:**

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					13 - 210 - 6,100	76
Basidiospores					13 - 430 - 23,000	92
Cladosporium					27 - 480 - 9,900	90
Penicillium/Aspergillus types					13 - 170 - 2,600	67
Smuts, Periconia, Myxomycetes					7 - 53 - 930	64
<b>Total</b>						

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

**Indoor Samples**

**Location: 21603001-1TM02**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
None Detected		<100	1K	10K	>100K

**Location: 21603001-1TM03**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5000	dF: 3 Result: 0.1250 Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
Ascospores		<100	1K	10K	>100K
Total					

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**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location: 21603001-1TM04**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8571	dF: 4 Result: 1.0000 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					160
Basidiospores					270
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					<b>490</b>

**Location: 21603001-1TM05**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.3500 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					<b>67</b>

**Location: 21603001-1TM06**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.0000	dF: 5 Result: -0.6250 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Rusts					13
Smuts, Periconia, Myxomycetes					27
<b>Total</b>					<b>40</b>

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 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location: 21603001-1TM08**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.1286 Critical value: 0.7714 Outside Similar: No	Score: 113 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Bipolaris/Drechslera group					13
Nigrospora					13
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					<b>93</b>

**Location: 21603001-1TM09**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8000	dF: 3 Result: 1.0000 Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					110
Basidiospores					160
<b>Total</b>					<b>270</b>

**Location: 21603001-1TM10**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.3500 Critical value: N/A Outside Similar: N/A	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Other brown					13
<b>Total</b>					<b>67</b>

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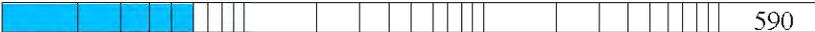
Date of Sampling: 03-11-2016  
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**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location: 21603001-1TM11**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8000	dF: 3 Result: 1.0000 Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					110
<b>Total</b>					160

**Location: 21603001-1TM12**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 4%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8571	dF: 4 Result: 1.0000 Critical value: N/A Outside Similar: N/A	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					160
Basidiospores					590
Cladosporium					110
Nigrospora					13
<b>Total</b>					870

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

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

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

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
Re: 21603001-1Date of Sampling: 03-11-2016  
Date of Receipt: 03-14-2016  
Date of Report: 03-15-2016**MoldSTAT™: Supplementary Statistical Spore Trap Report**

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

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**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM03

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores					1	53			112
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
<b>Total</b>						<b>53</b>			
							<b>Final MoldSCORE</b>		<b>100</b>

**Location:** 21603001-1TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					1	53			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
<b>Seldom found growing indoors**</b>									
Ascospores					3	160			100
Basidiospores					5	270			107
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					1	13			102
<b>Total</b>						<b>493</b>			
							<b>Final MoldSCORE</b>		<b>107</b>

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Date of Sampling: 03-11-2016  
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 Date of Report: 03-15-2016

**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores					ND	< 13			100
Basidiospores					1	53			103
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					1	13			103
<b>Total</b>						<b>67</b>			
<b>Final MoldSCORE</b>								<b>103</b>	

**Location:** 21603001-1TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					1	13			105
Smuts, Periconia, Myxomycetes					2	27			105
<b>Total</b>						<b>40</b>			
<b>Final MoldSCORE</b>								<b>105</b>	

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM08

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group	█				1	13			105
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora	█				1	13			105
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
<b>Seldom found growing indoors**</b>									
Ascospores					ND	< 13			100
Basidiospores	█				1	53			101
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes	█				1	13			103
<b>Total</b>						<b>93</b>			
							<b>Final MoldSCORE</b>		<b>113</b>

**Location:** 21603001-1TM09

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores	█				2	110			100
Basidiospores	█				3	160			105
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
<b>Total</b>						<b>267</b>			
							<b>Final MoldSCORE</b>		<b>105</b>

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 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM10

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
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
<b>Seldom found growing indoors**</b>										
Ascospores					ND	< 13				100
Basidiospores	█				1	53				103
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
<b>Total</b>						<b>67</b>				
							<b>Final MoldSCORE</b>	<b>105</b>		

**Location:** 21603001-1TM11

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
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
<b>Seldom found growing indoors**</b>										
Ascospores	█				1	53				100
Basidiospores	█				2	110				105
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
<b>Total</b>						<b>160</b>				
							<b>Final MoldSCORE</b>	<b>105</b>		





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 Date of Report: 03-15-2016

**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM03

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores					1	53			107
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
<b>Total</b>						<b>53</b>			
							<b>Final MoldSCORE</b>		<b>100</b>

**Location:** 21603001-1TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					1	53			103
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
<b>Seldom found growing indoors**</b>									
Ascospores					3	160			100
Basidiospores					5	270			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					1	13			103
<b>Total</b>						<b>493</b>			
							<b>Final MoldSCORE</b>		<b>103</b>

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**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores					ND	< 13			100
Basidiospores					1	53			101
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					1	13			103
<b>Total</b>						<b>67</b>			
<b>Final MoldSCORE</b>								<b>103</b>	

**Location:** 21603001-1TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					1	13			105
Smuts, Periconia, Myxomycetes					2	27			105
<b>Total</b>						<b>40</b>			
<b>Final MoldSCORE</b>								<b>105</b>	

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 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
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Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM08

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group	█				1	13			105
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora	█				1	13			105
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
<b>Seldom found growing indoors**</b>									
Ascospores					ND	< 13			100
Basidiospores	█				1	53			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes	█				1	13			103
<b>Total</b>						<b>93</b>			
							<b>Final MoldSCORE</b>		<b>113</b>

**Location:** 21603001-1TM09

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores	█				2	110			105
Basidiospores	█				3	160			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
<b>Total</b>						<b>267</b>			
							<b>Final MoldSCORE</b>		<b>100</b>

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**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM10

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
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
<b>Seldom found growing indoors**</b>										
Ascospores					ND	< 13				100
Basidiospores	█				1	53				101
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
<b>Total</b>						<b>67</b>				<b>Final MoldSCORE 105</b>

**Location:** 21603001-1TM11

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
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
<b>Seldom found growing indoors**</b>										
Ascospores	█				1	53				100
Basidiospores	█				2	110				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
<b>Total</b>						<b>160</b>				<b>Final MoldSCORE 100</b>

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**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM12

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				2	110	█			107
Curvularia					ND	< 13	█			100
Nigrospora	█				1	13	█			105
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
<b>Seldom found growing indoors**</b>										
Ascospores	█				3	160	█			100
Basidiospores	█	█			11	590	█			102
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
<b>Total</b>						<b>867</b>				
							<b>Final MoldSCORE</b>	<b>107</b>		

\* 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.