HYGIENETECH
Hygiene Technologies International, Inc.

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September 23, 2016

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

Document No. 21606001.1

Attention: Edna B. Murphy
Deputy Director Administration Department

Regarding: Limited Fungal Growth Exposure Assessment Surveys
June 2016 Random Sampling

Dear Ms. Murphy:

On June 7, 14, 21, 24, and 28, 2016, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted limited fungal growth exposure assessment surveys involving 24 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 21606001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Botrytis*, *Chaetomium*, C*ladosporium*, colorless spores typical of *Penicillium*/*Aspergillus* species, *Oidium,* other brown, other colorless, rusts, smuts, *Stemphylium* and/or *Torula*. In the indoor areas tested, the data showed that airborne fungal spores were detected at low airborne concentrations. The fungal spore types found indoor *Alternaria*, ascospores, basidiospores, *Botrytis*, *Cladosporium*, colorless spores typical of *Penicillium*/*Aspergillus* species, *Oidium,* other brown, other colorless, rusts, smuts, and/or *Stemphylium*. The distribution of fungal spore types detected in the surveyed areas was generally consistent with those found outdoors, and the overall data within the tested areas were well below the overall outdoor data recorded. Note that although an above background level of colorless spores typical of *Penicillium*/*Aspergillus* species was recorded in the 17th Floor Break Room 1710 on June 21, subsequent air sampling performed in that area on June 24 and 28 only indicated low levels of colorless spores typical of *Penicillium*/*Aspergillus* species and other common spores. Please note that based on the additional visual inspection as well as two additional rounds of follow

up air sampling in Break Room 1710, along with historical air sampling data, the above-background level of colorless spores typical of *Penicillium*/*Aspergillus* species that was recorded during the June 21, 2016 survey was likely an anomaly. 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
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TABLE 21606001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
JUNE 7, 14, 21, 24, AND 28, 2016

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

SAMPLE NUMBER	21606001-1 TM01OUT	21606001-1 TM02	21606001-1 TM03	21606001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet west of building; approximately five feet above ground/Normal outdoor activities	1st Floor; corridor adjacent to Child Care Center entry door; ; approximately five feet above floor/ Normal building activities	6th Floor; Mail/Storage Room 6B; about center; approximately five feet above floor/Sampling activities only	10th Floor; Column J18 area; about two foot north of Column J18; approximately five feet above floor/Normal office activities
DATE	06/07/16	06/07/16	06/07/16	06/07/16
START/STOP	10:06:00/10:11:00	10:13:00/10:18:00	10:21:00/10:26:00	10:31:00/10:36:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	27			
Ascospores	110			
Basidiospores	480			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	960	110		53
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium	13	13		
Other brown				
Other colorless				
Penicillium/Aspergillus types	210	110	53	53
Pithomyces				
Rusts	130	13		
Smuts (Periconia, Myxomycetes)	93	80	13	
Stachybotrys				
Stemphylium	13			
Torula	13			
Ulocladium				
Hyphal fragments	80	<13	13	<13
Background debris*	3+	3+	2+	2+
TOTAL**	2,100	320	67	110

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

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

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JUNE 7, 14, 21, 24, AND 28, 2016

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

SAMPLE NUMBER	21606001-1 TM05	21606001-1 TM06	21606001-1 TM07OUT	21606001-1 TM08
SAMPLING LOCATION/ACTIVITIES	14th Floor; Mail/Storage Room 14B; about center; approximately five feet above floor/Normal office activities	21st Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities	3rd Floor; Column J21 area; about two foot northwest of Column J21; approximately five feet above floor/Normal office activities
DATE	06/07/16	06/07/16	06/14/16	06/14/16
START/STOP	10:40:00/10:45:00	10:48:00/10:53:00	10:10:00/10:15:00	10:20:00/10:25:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			53	
Ascospores	53		480	
Basidiospores			320	
Bipolaris/Drechslera group				
Botrytis				
Cercospora				
Chaetomium			27	
Cladosporium	160	160	850	
Epicoccum				
Fusarium				
Nigrospora				
Oidium			13	
Other brown				
Penicillium/Aspergillus types		53	850	1,300
Pithomyces				
Rusts			160	
Smuts (Periconia, Myxomycetes)			270	
Stachybotrys				
Stemphylium			13	
Torula			13	
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	110	<13
Background debris*	3+	3+	3+	2+
TOTAL**	210	210	3,100	1,300

*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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450 N STREET
SACRAMENTO, CALIFORNIA
JUNE 7, 14, 21, 24, AND 28, 2016

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

SAMPLE NUMBER	**21606001-1 TM09**	**21606001-1 TM10**	**21606001-1 TM11**	**21606001-1 TM12**
SAMPLING LOCATION/ACTIVITIES	9th Floor; Column K18 area; about 15 feet northwest of Column K18; approximately five feet above floor/Normal office activities	15th Floor; Elevator Lobby; approximately five feet above floor/Normal office activities	20th Floor; northern corridor adjacent to northwestern drinking fountain; approximately five feet above floor/Normal office activities	22nd Floor; Break Room 2202; about center; approximately five feet above floor/Normal office activities
DATE	06/14/16	06/14/16	06/14/16	06/14/16
START/STOP	10:28:00/10:33:00	10:38:00/10:43:00	10:47:00/10:52:00	10:54:00/10:59:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores				
Basidiospores		53		53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium			53	
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown		27		
Penicillium/Aspergillus types		110	110	
Pithomyces				
Rusts		120	27	
Smuts (Periconia, Myxomycetes)	27	13	67	13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	13	<13
Background debris*	3+	3+	4+	2+
TOTAL**	27	320	250	67

*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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JUNE 7, 14, 21, 24, AND 28, 2016

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

SAMPLE NUMBER	21606001-1 TM13OUT	21606001-1 TM14	21606001-1 TM15	21606001-1 TM16
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet south of the building; approximately five feet above ground/Normal outdoor activities	7th Floor; Break Room 707; approximately five feet above floor/Normal office activities	8th Floor; Break Room 807; about center; approximately five feet above floor/Normal office activities	11th Floor; northern corridor adjacent to Northeastern drinking fountain; approximately five feet above floor/Normal office activities
DATE	06/21/16	06/21/16	06/21/16	06/21/16
START/STOP	14:42:00/14:47:00	14:50:00/14:55:00	14:59:00/15:04:00	15:08:00/15:13:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	27		13	
Ascospores	210			
Basidiospores	1,100	53		53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	13			
Cladosporium	750	110		53
Curvularia				
Epicoccum				
Nigrospora				
Oidium	27	13		
Other brown	13		13	
Penicillium/Aspergillus types			110	160
Pithomyces				
Rusts	93		13	
Smuts (Periconia, Myxomycetes)	190	13	40	
Stachybotrys				
Stemphylium	13			13
Torula	40			
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	40	<13	<13	40
Background debris*	3+	3+	3+	3+
TOTAL**	2,400	190	190	280

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

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450 N STREET
SACRAMENTO, CALIFORNIA
JUNE 7, 14, 21, 24, AND 28, 2016

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

SAMPLE NUMBER	21606001-1 TM17	21606001-1 TM18	21606001-1 TM19	21606001-1 TM20OUT
SAMPLING LOCATION/ACTIVITIES	16th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	17th Floor; Break Room 1710; about center; approximately five feet above floor/Normal office activities	18th Floor; Break Room 1814; about center approximately five feet above floor/Normal office activities	Outdoors; about 25 feet northeast of the main entrance; approximately five feet above ground/Normal outdoor activities
DATE	06/21/16	06/21/16	06/21/16	06/24/16
START/STOP	15:15:00/15:20:00	16:06:00/16:11:00	16:14:00/16:19:00	09:30:00/09:35:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				270
Ascospores				
Basidiospores	110	160		960
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				1,100
Cladosporium	53	160	13	
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				27
Other colorless			13	27
Penicillium/Aspergillus types	53	1,400	160	640
Polythrincium				
Rusts				27
Smuts (Periconia, Myxomycetes)		13		330
Stachybotrys				
Stemphylium	13			
Torula				40
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	<13	80
Background debris*	2+	2+	2+	3+
TOTAL**	230	1,700	170	3,400

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

SAMPLE NUMBER	**21606001-1 TM21**	**21606001-1 TM22OUT**	**21606001-1 TM23**	**21606001-1 TM24**
SAMPLING LOCATION/ACTIVITIES	17th Floor; Break Room 1710; about center; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet south of the building; approximately five feet above ground/Normal outdoor activities	2nd Floor; Quiet Room 202; about center; approximately five feet above floor/Normal office activities	4th Floor; Elevator Lobby; approximately five feet above floor/Normal office activities
DATE	06/24/16	06/28/16	06/28/16	06/28/16
START/STOP	09:39:00/09:44:00	13:45:00/13:50:00	13:55:00/14:00:00	14:02:00/14:07:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		13		
Ascospores		160	53	
Basidiospores	110	590		
Bipolaris/Drechslera group				
Botrytis		13		
Chaetomium	13	27	13	
Cladosporium	53	530		160
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown	13			
Other colorless		53		
Penicillium/Aspergillus types	110	210	270	110
Pithomyces				
Rusts		40		
Smuts (Periconia, Myxomycetes)		440	27	27
Stachybotrys				
Stemphylium				
Torula		13		
Ulocladium				
Hyphal fragments	<13	80	27	13
Background debris*	2+	3+	3+	3+
TOTAL**	290	2,100	360	290

*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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JUNE 7, 14, 21, 24, AND 28, 2016

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

SAMPLE NUMBER	21606001-1 TM25	21606001-1 TM26	21606001-1 TM27	21606001-1 TM28
SAMPLING LOCATION/ACTIVITIES	5th Floor; Copy Room 506; about center; approximately five feet above floor/ Normal office activities	17th Floor; Break Room 1710; about center; approximately five feet above floor/Normal office activities	19th Floor; Mail Room 19B; about center; approximately five feet above floor/ Normal office activities	23rd Floor; Room 2311; reception area; about center; approximately five feet above floor/ Normal office activities
DATE	06/28/16	06/28/16	06/28/16	06/28/16
START/STOP	14:09:00/14:14:00	14:18:00/14:23:00	14:25:00/14:30:00	14:33:00/14:38:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores				
Basidiospores		53	53	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53			53
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown	13			
Penicillium/Aspergillus types		210		110
Pithomyces				
Rusts		13		
Smuts (Periconia, Myxomycetes)				40
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	13	<13	<13
Background debris*	2+	2+	2+	3+
TOTAL**	67	280	53	200

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SACRAMENTO, CALIFORNIA
JUNE 7, 14, 21, 24, AND 28, 2016

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

SAMPLE NUMBER	**21606001-1 TM29**			
SAMPLING LOCATION/ACTIVITIES	24th Floor; Elevator Lobby; approximately five feet above floor/Normal office activities	This column intentionally left blank	This column intentionally left blank	This column intentionally left blank
DATE	06/28/16			
START/STOP	14:40:00/14:45:00			
SAMPLE TIME	5 minutes			
Alternaria				
Ascospores				
Basidiospores	370			
Bipolaris/Drechslera group				
Botrytis	13			
Chaetomium				
Cladosporium	640			
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown	27			
Penicillium/Aspergillus types	370			
Pithomyces				
Rusts	27			
Smuts (Periconia, Myxomycetes)	110			
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	27			
Background debris*	3+			
TOTAL**	1,600			

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EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Submittal: 06-07-2016
Date of Receipt: 06-07-2016
Date of Report: 06-08-2016

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21606001-1TM01OUT

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		ND	< 13
Chaetomium		ND	< 13
Cladosporium		18	960
Curvularia		ND	< 13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		4	210
Stachybotrys		ND	< 13
Stemphylium		1	13
Torula		1	13
Seldom found growing indoors**			
Ascospores		2	110
Basidiospores		9	480
Oidium		1	13
Rusts		10	130
Smuts, Periconia, Myxomycetes		7	93
Total			**2,053**

Location: 21606001-1TM02

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		2	110		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		112
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Oidium		1	13		104
Rusts		1	13		100
Smuts, Periconia, Myxomycetes		6	80		113
Total			**320**	**Final MoldSCORE**	**113**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Submittal: 06-07-2016
Date of Receipt: 06-07-2016
Date of Report: 06-08-2016

MoldSCORE™: Spore Trap Report

Location: 21606001-1TM03

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†		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		1	13		102
Total			**67**	**Final MoldSCORE**	**107**

Location: 21606001-1TM04

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		100
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		ND	< 13		100
Total			**107**	**Final MoldSCORE**	**107**

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Submittal: 06-07-2016
Date of Receipt: 06-07-2016
Date of Report: 06-08-2016

MoldSCORE™: Spore Trap Report

Location: 21606001-1TM05

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		3	160		104
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		117
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**213**	**Final MoldSCORE**	**104**

Location: 21606001-1TM06

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		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		3	160		104
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		105
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			**213**	**Final MoldSCORE**	**105**

EMLab P&K
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(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Submittal: 06-07-2016
Date of Receipt: 06-07-2016
Date of Report: 06-08-2016

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.

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Submittal: 06-07-2016
Date of Receipt: 06-07-2016
Date of Report: 06-08-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21606001-1TM01OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	27	7 - 40 - 590	44
Ascospores	110	13 - 210 - 6,100	76
Basidiospores	480	13 - 430 - 24,000	92
Cladosporium	960	27 - 480 - 9,900	90
Oidium	13	7 - 13 - 210	11
Penicillium/Aspergillus types	210	13 - 170 - 2,600	67
Rusts	130	7 - 20 - 360	20
Smuts, Periconia, Myxomycetes	93	7 - 53 - 950	64
Stemphylium	13	7 - 13 - 93	3
Torula	13	7 - 13 - 170	9
Total	2,100		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of 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: 21606001-1TM02

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 15%	dF: 4 Result: 5.0667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.6667	dF: 10 Result: 0.5152 Critical value: 0.5515 Outside Similar: No	Score: 113 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	110
Oidium	13
Penicillium/Aspergillus types	110
Rusts	13
Smuts, Periconia, Myxomycetes	80
Total	320

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Re: 21606001-1

Date of Submittal: 06-07-2016
Date of Receipt: 06-07-2016
Date of Report: 06-08-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21606001-1TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 4 Result: 5.0667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.4061 Critical value: 0.5515 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K	
Penicillium/Aspergillus types		53
Smuts, Periconia, Myxomycetes		13
Total		67

Location: 21606001-1TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 5%	dF: 4 Result: 5.0667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.6939 Critical value: 0.5515 Outside Similar: Yes	Score: 107 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K	
Cladosporium		53
Penicillium/Aspergillus types		53
Total		110

Location: 21606001-1TM05

% 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: 4 Result: 5.0667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.5939 Critical value: 0.5515 Outside Similar: Yes	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K	
Ascospores		53
Cladosporium		160
Total		210

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Submittal: 06-07-2016
Date of Receipt: 06-07-2016
Date of Report: 06-08-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21606001-1TM06

% 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: 4 Result: 5.0667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.7030 Critical value: 0.5515 Outside Similar: Yes	Score: 105 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	160
Penicillium/Aspergillus types	53
Total	210

* 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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Re: 21606001-1

Date of Submittal: 06-07-2016
Date of Receipt: 06-07-2016
Date of Report: 06-08-2016

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21606001-1TM01OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: June in California† (n‡=19034)						Typical Outdoor Data for: The entire year in California† (n‡=230447)					
	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	67	110	63	13	13	27	65	110	53
Bipolaris/Drechslera group	-	7	13	13	27	41	12	7	13	13	27	53	12
Chaetomium	-	8	13	13	27	40	24	8	13	13	27	48	19
Cladosporium	960	110	210	590	1,400	2,200	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	27	40	4	7	13	13	27	53	6
Nigrospora	-	7	13	13	13	27	4	7	13	13	27	53	9
Penicillium/Aspergillus types	210	53	53	190	480	750	82	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	27	53	5	7	13	13	33	67	4
Stemphylium	13	7	13	13	27	40	13	7	13	13	27	40	9
Torula	13	10	13	13	40	67	18	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	110	13	40	100	250	430	70	27	53	110	370	750	71
Basidiospores	480	40	53	160	450	880	90	53	80	260	1,000	2,400	93
Oidium	13	13	13	20	53	80	28	13	13	13	50	80	19
Rusts	130	13	13	27	53	100	38	13	13	13	53	87	26
Smuts, Periconia, Myxomycetes	93	13	23	53	160	310	79	13	13	40	110	200	68
§ TOTAL SPORES/m3	2,100												

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

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

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

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

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes ouly 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
A TestAmerica Company

Report for:

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

Regarding: Project: 21606001-1
EML ID: 1551193

Approved by:

Technical Manager
Louise White

REVISED REPORT

Dates of Analysis:
Spore trap analysis: 07-05-2016

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

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Submittal: 06-07-2016
Date of Receipt: 06-07-2016
Date of Report: 06-08-2016

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21606001-1TM01OUT		21606001-1TM02		21606001-1TM03	
Comments (see below)	None		None		None	
Lab ID-Version‡:	7189232-2		7189233-2		7189234-2	
Analysis Date:	07/05/2016		07/05/2016		07/05/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27				
Ascospores	2	110				
Basidiospores	9	480				
Chaetomium						
Cladosporium	18	960	2	110		
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium	1	13	1	13		
Other colorless						
Penicillium/Aspergillus types†	4	210	2	110	1	53
Pithomyces						
Rusts	10	130	1	13		
Smuts, Periconia, Myxomycetes	7	93	6	80	1	13
Stachybotrys						
Stemphylium	1	13				
Torula	1	13				
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		3+		2+	
Hyphal fragments/m3	80		< 13		13	
Pollen/m3	53		27		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		2,100		320		67

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^3 divided by the raw count, expressed in spores/m^3. The limit of detection is the analytical sensitivity (in spores/m^3) 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/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: 21606001-1

Date of Submittal: 06-07-2016
Date of Receipt: 06-07-2016
Date of Report: 06-08-2016

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21606001-1TM04		21606001-1TM05		21606001-1TM06	
Comments (see below)	None		None		None	
Lab ID-Version‡:	7189235-2		7189236-2		7189237-2	
Analysis Date:	07/05/2016		07/05/2016		07/05/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores			1	53		
Basidiospores						
Chaetomium						
Cladosporium	1	53	3	160	3	160
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other colorless						
Penicillium/Aspergillus types†	1	53			1	53
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		3+		3+	
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		110		210		210

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^3 divided by the raw count, expressed in spores/m^3. The limit of detection is the analytical sensitivity (in spores/m^3) 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/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
A TestAmerica Company

Report for:

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

Regarding: Project: 21606001-1
EML ID: 1554687

Approved by:

Technical Manager
Louise White

Dates of Analysis:
Spore trap analysis: 06-15-2016

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

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Sampling: 06-14-2016
Date of Receipt: 06-14-2016
Date of Report: 06-15-2016

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21606001-1TM07OUT		21606001-1TM08		21606001-1TM09	
Comments (see below)	None		A		None	
Lab ID-Version‡:	7206583-1		7206584-1		7206585-1	
Analysis Date:	06/15/2016		06/15/2016		06/15/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	4	53				
Ascospores	9	480				
Basidiospores	6	320				
Chaetomium	2	27				
Cladosporium	16	850				
Fusarium						
Myrothecium						
Nigrospora						
Oidium	1	13				
Other brown						
Other colorless						
Penicillium/Aspergillus types†	16	850	95	1,300		
Pithomyces						
Rusts	12	160				
Smuts, Periconia, Myxomycetes	20	270			2	27
Stachybotrys						
Stemphylium	1	13				
Torula	1	13				
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		2+		3+	
Hyphal fragments/m3	110		< 13		< 13	
Pollen/m3	27		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		2+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		3,100		1,300		27

Comments: A) 94 of the raw count *Penicillium/Aspergillus* type spores were present as a single clump.

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^3 divided by the raw count, expressed in spores/m^3. The limit of detection is the analytical sensitivity (in spores/m^3) 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/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: 21606001-1

Date of Sampling: 06-14-2016
Date of Receipt: 06-14-2016
Date of Report: 06-15-2016

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21606001-1TM10		21606001-1TM11		21606001-1TM12	
Comments (see below)	None		None		B	
Lab ID-Version‡:	7206586-1		7206587-1		7206588-1	
Analysis Date:	06/15/2016		06/15/2016		06/15/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores	1	53			1	53
Chaetomium						
Cladosporium			1	53		
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other brown	2	27				
Other colorless						
Penicillium/Aspergillus types†	2	110	2	110		
Pithomyces						
Rusts	9	120	2	27		
Smuts, Periconia, Myxomycetes	1	13	5	67	1	13
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		4+		2+	
Hyphal fragments/m3	< 13		13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	2+		2+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		320		250		67

Comments:B) Analysis of replicate sample is delayed.

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^3 divided by the raw count, expressed in spores/m^3. The limit of detection is the analytical sensitivity (in spores/m^3) 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/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: 21606001-1

Date of Sampling: 06-14-2016
Date of Receipt: 06-14-2016
Date of Report: 06-15-2016

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21606001-1TM07OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: June in California† (n‡=19034)						Typical Outdoor Data for: The entire year in California† (n‡=230447)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	53	13	13	27	67	110	63	13	13	27	65	110	53
Bipolaris/Drechslera group	-	7	13	13	27	41	12	7	13	13	27	53	12
Chaetomium	27	8	13	13	27	40	24	8	13	13	27	48	19
Cladosporium	850	110	210	590	1,400	2,200	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	27	40	4	7	13	13	27	53	6
Nigrospora	-	7	13	13	13	27	4	7	13	13	27	53	9
Other brown	-	13	13	13	40	53	36	13	13	13	40	53	34
Penicillium/Aspergillus types	850	53	53	190	480	750	82	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	27	53	5	7	13	13	33	67	4
Stemphylium	13	7	13	13	27	40	13	7	13	13	27	40	9
Torula	13	10	13	13	40	67	18	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	480	13	40	100	250	430	70	27	53	110	370	750	71
Basidiospores	320	40	53	160	450	880	90	53	80	260	1,000	2,400	93
Oidium	13	13	13	20	53	80	28	13	13	13	50	80	19
Rusts	160	13	13	27	53	100	38	13	13	13	53	87	26
Smuts, Periconia, Myxomycetes	270	13	23	53	160	310	79	13	13	40	110	200	68
§ TOTAL SPORES/m3	3,100												

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

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

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

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

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes ouly 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
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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Sampling: 06-14-2016
Date of Receipt: 06-14-2016
Date of Report: 06-15-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21606001-1TM07OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)		Typical outdoor ranges (North America)	Freq. %
Alternaria		53	7 - 40 - 570	44
Ascospores		480	13 - 210 - 6,200	76
Basidiospores		320	13 - 430 - 24,000	92
Chaetomium		27	7 - 13 - 160	9
Cladosporium		850	27 - 480 - 9,900	90
Oidium		13	7 - 13 - 210	11
Penicillium/Aspergillus types		850	13 - 170 - 2,600	67
Rusts		160	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes		270	7 - 53 - 950	64
Stemphylium		13	7 - 13 - 93	3
Torula		13	7 - 13 - 170	9
Total		3,100		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of 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: 21606001-1TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 42%	dF: 4 Result: 4.5667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.6114 Critical value: 0.5273 Outside Similar: Yes	Score: 230 Result: Medium

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)	
Penicillium/Aspergillus types		1,300
Total		1,300

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Re: 21606001-1

Date of Sampling: 06-14-2016
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21606001-1TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 4.5667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.4364 Critical value: 0.5273 Outside Similar: No	Score: 105 Result: Low

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

Location: 21606001-1TM10

% 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: 4 Result: 4.5667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5000	dF: 12 Result: 0.3339 Critical value: 0.4965 Outside Similar: No	Score: 111 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	53
Other brown	27
Penicillium/Aspergillus types	110
Rusts	120
Smuts, Periconia, Myxomycetes	13
Total	320

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Re: 21606001-1

Date of Sampling: 06-14-2016
Date of Receipt: 06-14-2016
Date of Report: 06-15-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21606001-1TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 8%	dF: 4 Result: 4.5667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5333	dF: 11 Result: 0.6841 Critical value: 0.5273 Outside Similar: Yes	Score: 109 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K	
Cladosporium					53
Penicillium/Aspergillus types					110
Rusts					27
Smuts, Periconia, Myxomycetes					67
Total					250

Location: 21606001-1TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 4 Result: 4.5667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3077	dF: 11 Result: 0.4386 Critical value: 0.5273 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K	
Basidiospores					53
Smuts, Periconia, Myxomycetes					13
Total					67

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

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

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

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Re: 21606001-1

Date of Sampling: 06-14-2016
Date of Receipt: 06-14-2016
Date of Report: 06-15-2016

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&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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Re: 21606001-1

Date of Sampling: 06-14-2016
Date of Receipt: 06-14-2016
Date of Report: 06-15-2016

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21606001-1TM07OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		4	53
Bipolaris/Drechslera group		ND	< 13
Chaetomium		2	27
Cladosporium		16	850
Curvularia		ND	< 13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		16	850
Stachybotrys		ND	< 13
Stemphylium		1	13
Torula		1	13
Seldom found growing indoors**			
Ascospores		9	480
Basidiospores		6	320
Oidium		1	13
Rusts		12	160
Smuts, Periconia, Myxomycetes		20	270
Total			**3,053**

Location: 21606001-1TM08

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		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		95	1,300		230
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			**1,307**	**Final MoldSCORE**	**230**

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Re: 21606001-1

Date of Sampling: 06-14-2016
Date of Receipt: 06-14-2016
Date of Report: 06-15-2016

MoldSCORE™: Spore Trap Report

Location: 21606001-1TM09

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		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		105
Total			**27**	**Final MoldSCORE**	**105**

Location: 21606001-1TM10

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
Other brown		2	27		111
Penicillium/Aspergillus types†		2	110		103
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		102
Rusts		9	120		141
Smuts, Periconia, Myxomycetes		1	13		100
Total			**320**	**Final MoldSCORE**	**111**

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Re: 21606001-1

Date of Sampling: 06-14-2016
Date of Receipt: 06-14-2016
Date of Report: 06-15-2016

MoldSCORE™: Spore Trap Report

Location: 21606001-1TM11

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		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		106
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		2	27		106
Smuts, Periconia, Myxomycetes		5	67		109
Total			**253**	**Final MoldSCORE**	**109**

Location: 21606001-1TM12

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		1	53		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		101
Total			**67**	**Final MoldSCORE**	**105**

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Sampling: 06-14-2016
Date of Receipt: 06-14-2016
Date of Report: 06-15-2016

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.

EMLab P&K
A TestAmerica Company

Report for:

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

Regarding: Project: 21606001-1
EML ID: 1558821

Approved by:

Technical Manager
Louise White

REVISED REPORT

Dates of Analysis:
Spore trap analysis: 06-23-2016 and 06-28-2016

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

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Sampling: 06-21-2016
Date of Receipt: 06-22-2016
Date of Report: 06-23-2016

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21606001-1TM13Out		21606001-1TM14		21606001-1TM15		21606001-1TM16	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	7226079-1		7226080-2		7226081-2		7226082-2	
Analysis Date:	06/23/2016		06/28/2016		06/28/2016		06/28/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27			1	13		
Ascospores	4	210						
Basidiospores	20	1,100	1	53			1	53
Chaetomium	1	13						
Cladosporium	14	750	2	110			1	53
Myrothecium								
Nigrospora								
Oidium	2	27	1	13				
Other brown	1	13			1	13		
Other colorless								
Penicillium/Aspergillus types†					2	110	3	160
Pithomyces								
Rusts	7	93			1	13		
Smuts, Periconia, Myxomycetes	14	190	1	13	3	40		
Stachybotrys								
Stemphylium	1	13					1	13
Torula	3	40						
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		3+		3+		3+	
Hyphal fragments/m3	40		< 13		< 13		40	
Pollen/m3	27		13		< 13		13	
Skin cells (1-4+)	< 1+		2+		2+		2+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		2,400		190		190		280

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^3 divided by the raw count, expressed in spores/m^3. The limit of detection is the analytical sensitivity (in spores/m^3) 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/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: 21606001-1

Date of Sampling: 06-21-2016
Date of Receipt: 06-22-2016
Date of Report: 06-23-2016

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21606001-1TM17		21606001-1TM18		21606001-1TM19	
Comments (see below)	None		None		None	
Lab ID-Version‡:	7226083-2		7226084-2		7226085-2	
Analysis Date:	06/28/2016		06/28/2016		06/28/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores	2	110	3	160		
Chaetomium						
Cladosporium	1	53	3	160		
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other brown						
Other colorless					1	13
Penicillium/Aspergillus types†	1	53	26	1,400	3	160
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes			1	13		
Stachybotrys						
Stemphylium	1	13				
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+)	2+		2+		2+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		230		1,700		170

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^3 divided by the raw count, expressed in spores/m^3. The limit of detection is the analytical sensitivity (in spores/m^3) 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/m3 has been rounded to two significant figures to reflect analytical precision.

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Re: 21606001-1

Date of Sampling: 06-21-2016
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MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21606001-1TM13Out

Fungi Identified	Outdoor data	Typical Outdoor Data for: June in California† (n‡=19034)						Typical Outdoor Data for: The entire year in California† (n‡=230447)					
	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	67	110	63	13	13	27	65	110	53
Bipolaris/Drechslera group	-	7	13	13	27	41	12	7	13	13	27	53	12
Chaetomium	13	8	13	13	27	40	24	8	13	13	27	48	19
Cladosporium	750	110	210	590	1,400	2,200	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	27	40	4	7	13	13	27	53	6
Nigrospora	-	7	13	13	13	27	4	7	13	13	27	53	9
Other brown	13	13	13	13	40	53	36	13	13	13	40	53	34
Other colorless	-	8	13	13	27	53	5	10	13	13	38	53	5
Penicillium/Aspergillus types	-	53	53	190	480	750	82	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	27	53	5	7	13	13	33	67	4
Stemphylium	13	7	13	13	27	40	13	7	13	13	27	40	9
Torula	40	10	13	13	40	67	18	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	210	13	40	100	250	430	70	27	53	110	370	750	71
Basidiospores	1,100	40	53	160	450	880	90	53	80	260	1,000	2,400	93
Oidium	27	13	13	20	53	80	28	13	13	13	50	80	19
Rusts	93	13	13	27	53	100	38	13	13	13	53	87	26
Smuts, Periconia, Myxomycetes	190	13	23	53	160	310	79	13	13	40	110	200	68
§ TOTAL SPORES/m3	2,400												

†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 ouly 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: 21606001-1

Date of Sampling: 06-21-2016
Date of Receipt: 06-22-2016
Date of Report: 06-23-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21606001-1TM13Out:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	27	7 - 40 - 570	44
Ascospores	210	13 - 210 - 6,200	76
Basidiospores	1,100	13 - 430 - 24,000	92
Chaetomium	13	7 - 13 - 160	9
Cladosporium	750	27 - 480 - 9,900	90
Oidium	27	7 - 13 - 210	11
Other brown	13	7 - 20 - 130	25
Penicillium/Aspergillus types	< 13	13 - 170 - 2,600	67
Rusts	93	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes	190	7 - 53 - 950	64
Stemphylium	13	7 - 13 - 93	3
Torula	40	7 - 13 - 170	9
Total	2,400		

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: 21606001-1TM14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 7%	dF: 5 Result: 1.9286 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5333	dF: 11 Result: 0.6886 Critical value: 0.5273 Outside Similar: Yes	Score: 103 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	53
Cladosporium	110
Oidium	13
Smuts, Periconia, Myxomycetes	13
Total	190

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21606001-1TM15

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 7%	dF: 5 Result: 1.9286 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5000	dF: 12 Result: -0.1766 Critical value: 0.4965 Outside Similar: No	Score: 118 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	13
Other brown	13
Penicillium/Aspergillus types	110
Rusts	13
Smuts, Periconia, Myxomycetes	40
Total	190

Location: 21606001-1TM16

% 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: 1.9286 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4000	dF: 12 Result: 0.1783 Critical value: 0.4965 Outside Similar: No	Score: 125 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	53
Cladosporium	53
Penicillium/Aspergillus types	160
Stemphylium	13
Total	280

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21606001-1TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 9%	dF: 5 Result: 1.9286 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4000	dF: 12 Result: 0.2937 Critical value: 0.4965 Outside Similar: No	Score: 108 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	110
Cladosporium	53
Penicillium/Aspergillus types	53
Stemphylium	13
Total	230

Location: 21606001-1TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 69%	dF: 5 Result: 1.9286 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4000	dF: 12 Result: 0.3671 Critical value: 0.4965 Outside Similar: No	Score: 268 Result: High

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	160
Cladosporium	160
Penicillium/Aspergillus types	1,400
Smuts, Periconia, Myxomycetes	13
Total	1,700

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21606001-1TM19

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 6%	dF: 5 Result: 1.9286 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: 13 Result: -0.0824 Critical value: 0.4780 Outside Similar: No	Score: 125 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other colorless	13
Penicillium/Aspergillus types	160
Total	170

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

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

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

**** 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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MoldSCORE™: Spore Trap Report

Outdoor Sample: 21606001-1TM13Out

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		ND	< 13
Chaetomium		1	13
Cladosporium		14	750
Curvularia		ND	< 13
Nigrospora		ND	< 13
Other brown		1	13
Penicillium/Aspergillus types†		ND	< 13
Stachybotrys		ND	< 13
Stemphylium		1	13
Torula		3	40
Seldom found growing indoors**			
Ascospores		4	210
Basidiospores		20	1,100
Oidium		2	27
Rusts		7	93
Smuts, Periconia, Myxomycetes		14	190
Total			**2,440**

Location: 21606001-1TM14

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		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		1	53		100
Oidium		1	13		104
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		100
Total			**187**	**Final MoldSCORE**	**103**

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MoldSCORE™: Spore Trap Report

Location: 21606001-1TM15

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		1	13		104
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†		2	110		118
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		1	13		102
Smuts, Periconia, Myxomycetes		3	40		105
Total			**187**	**Final MoldSCORE**	**118**

Location: 21606001-1TM16

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†		3	160		125
Stachybotrys		ND	< 13		100
Stemphylium		1	13		105
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**280**	**Final MoldSCORE**	**125**

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MoldSCORE™: Spore Trap Report

Location: 21606001-1TM17

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		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		108
Stachybotrys		ND	< 13		100
Stemphylium		1	13		105
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		2	110		101
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**227**	**Final MoldSCORE**	**108**

Location: 21606001-1TM18

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		3	160		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		26	1,400		268
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		3	160		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		100
Total			**1,720**	**Final MoldSCORE**	**268**

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MoldSCORE™: Spore Trap Report

Location: 21606001-1TM19

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
Other colorless		1	13		105
Penicillium/Aspergillus types†		3	160		125
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			**173**	**Final MoldSCORE**	**125**

* 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.

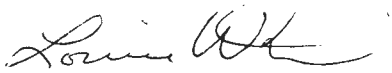
EMLab P&K
A TestAmerica Company

Report for:

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

Regarding: Project: 21606001-1
EML ID: 1560290

Approved by:



Technical Manager
Louise White

Dates of Analysis:
Spore trap analysis: 06-27-2016

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

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Sampling: 06-24-2016
Date of Receipt: 06-24-2016
Date of Report: 06-27-2016

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21606001-1TM20Out		21606001-1TM21	
Comments (see below)	None		None	
Lab ID-Version‡:	7233724-1		7233725-1	
Analysis Date:	06/27/2016		06/27/2016	
	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores	5	270		
Basidiospores	18	960	2	110
Chaetomium			1	13
Cladosporium	20	1,100	1	53
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other brown	2	27	1	13
Other colorless	2	27		
Penicillium/Aspergillus types†	12	640	2	110
Pithomyces				
Rusts	2	27		
Smuts, Periconia, Myxomycetes	25	330		
Stachybotrys				
Stemphylium				
Torula	3	40		
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	3+		2+	
Hyphal fragments/m3	80		< 13	
Pollen/m3	160		< 13	
Skin cells (1-4+)	1+		1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		3,400		290

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^3 divided by the raw count, expressed in spores/m^3. The limit of detection is the analytical sensitivity (in spores/m^3) 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/m3 has been rounded to two significant figures to reflect analytical precision.

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Re: 21606001-1

Date of Sampling: 06-24-2016
Date of Receipt: 06-24-2016
Date of Report: 06-27-2016

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21606001-1TM20Out

Fungi Identified	Outdoor data	Typical Outdoor Data for: June in California† (n‡=19034)						Typical Outdoor Data for: The entire year in California† (n‡=230447)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	67	110	63	13	13	27	65	110	53
Bipolaris/Drechslera group	-	7	13	13	27	41	12	7	13	13	27	53	12
Chaetomium	-	8	13	13	27	40	24	8	13	13	27	48	19
Cladosporium	1,100	110	210	590	1,400	2,200	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	27	40	4	7	13	13	27	53	6
Nigrospora	-	7	13	13	13	27	4	7	13	13	27	53	9
Other brown	27	13	13	13	40	53	36	13	13	13	40	53	34
Other colorless	27	8	13	13	27	53	5	10	13	13	38	53	5
Penicillium/Aspergillus types	640	53	53	190	480	750	82	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	27	53	5	7	13	13	33	67	4
Torula	40	10	13	13	40	67	18	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	270	13	40	100	250	430	70	27	53	110	370	750	71
Basidiospores	960	40	53	160	450	880	90	53	80	260	1,000	2,400	93
Rusts	27	13	13	27	53	100	38	13	13	13	53	87	26
Smuts, Periconia, Myxomycetes	330	13	23	53	160	310	79	13	13	40	110	200	68
§ TOTAL SPORES/m3	3,400												

†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 ouly 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
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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Sampling: 06-24-2016
Date of Receipt: 06-24-2016
Date of Report: 06-27-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21606001-1TM20Out:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Ascospores	270	13 - 210 - 6,200	76
Basidiospores	960	13 - 430 - 24,000	92
Cladosporium	1,100	27 - 480 - 9,900	90
Other brown	27	7 - 20 - 130	25
Other colorless	27	7 - 27 - 720	4
Penicillium/Aspergillus types	640	13 - 170 - 2,600	67
Rusts	27	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes	330	7 - 53 - 950	64
Torula	40	7 - 13 - 170	9
Total	3,400		

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: 21606001-1TM21

% 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: N/A Result: N/A Critical value: N/A Inside Similar: N/A	Result: 0.5714	dF: 10 Result: 0.5273 Critical value: 0.5515 Outside Similar: No	Score: 121 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	110
Chaetomium	13
Cladosporium	53
Other brown	13
Penicillium/Aspergillus types	110
Total	290

* 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.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

*** 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.
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Re: 21606001-1

Date of Sampling: 06-24-2016
Date of Receipt: 06-24-2016
Date of Report: 06-27-2016

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21606001-1TM20Out

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		ND	< 13
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		20	1,100
Curvularia		ND	< 13
Nigrospora		ND	< 13
Other brown		2	27
Other colorless		2	27
Penicillium/Aspergillus types†		12	640
Stachybotrys		ND	< 13
Torula		3	40
Seldom found growing indoors**			
Ascospores		5	270
Basidiospores		18	960
Rusts		2	27
Smuts, Periconia, Myxomycetes		25	330
Total			**3,387**

Location: 21606001-1TM21

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		1	13		121
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		104
Penicillium/Aspergillus types†		2	110		109
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		2	110		103
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**293**	**Final MoldSCORE**	**121**

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Re: 21606001-1

Date of Sampling: 06-24-2016
Date of Receipt: 06-24-2016
Date of Report: 06-27-2016

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.

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Re: 21606001-1

Date of Sampling: 06-28-2016
Date of Receipt: 06-28-2016
Date of Report: 06-29-2016

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21606001-1TM22OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		1	13
Bipolaris/Drechslera group		ND	< 13
Chaetomium		2	27
Cladosporium		10	530
Curvularia		ND	< 13
Nigrospora		ND	< 13
Other colorless		4	53
Penicillium/Aspergillus types†		4	210
Stachybotrys		ND	< 13
Torula		1	13
Seldom found growing indoors**			
Ascospores		3	160
Basidiospores		11	590
Botrytis		1	13
Rusts		3	40
Smuts, Periconia, Myxomycetes		33	440
Total			**2,093**

Location: 21606001-1TM23

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		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		1	13		113
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		5	270		137
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		110
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		100
Total			**360**	**Final MoldSCORE**	**137**

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Sampling: 06-28-2016
Date of Receipt: 06-28-2016
Date of Report: 06-29-2016

MoldSCORE™: Spore Trap Report

Location: 21606001-1TM24

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		3	160		105
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		113
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		100
Total			**293**	**Final MoldSCORE**	**113**

Location: 21606001-1TM25

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		1	53		102
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			**67**	**Final MoldSCORE**	**105**

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Re: 21606001-1

Date of Sampling: 06-28-2016
Date of Receipt: 06-28-2016
Date of Report: 06-29-2016

MoldSCORE™: Spore Trap Report

Location: 21606001-1TM26

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†		4	210		129
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		100
Rusts		1	13		103
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**280**	**Final MoldSCORE**	**129**

Location: 21606001-1TM27

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		1	53		104
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**53**	**Final MoldSCORE**	**104**

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Sampling: 06-28-2016
Date of Receipt: 06-28-2016
Date of Report: 06-29-2016

MoldSCORE™: Spore Trap Report

Location: 21606001-1TM28

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†		2	110		114
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		3	40		100
Total			**200**	**Final MoldSCORE**	**114**

Location: 21606001-1TM29

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		12	640		116
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		2	27		111
Penicillium/Aspergillus types†		7	370		134
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		7	370		100
Botrytis		1	13		101
Rusts		2	27		100
Smuts, Periconia, Myxomycetes		8	110		100
Total			**1,560**	**Final MoldSCORE**	**134**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Sampling: 06-28-2016
Date of Receipt: 06-28-2016
Date of Report: 06-29-2016

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.

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Sampling: 06-28-2016
Date of Receipt: 06-28-2016
Date of Report: 06-29-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21606001-1TM22OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	13	7 - 40 - 570	44
Ascospores	160	13 - 210 - 6,200	76
Basidiospores	590	13 - 430 - 24,000	92
Botrytis	13	7 - 27 - 270	5
Chaetomium	27	7 - 13 - 160	9
Cladosporium	530	27 - 480 - 9,900	90
Other colorless	53	7 - 27 - 720	4
Penicillium/Aspergillus types	210	13 - 170 - 2,600	67
Rusts	40	7 - 22 - 360	20
Smuts, Periconia, Myxomycetes	440	7 - 53 - 950	64
Torula	13	7 - 13 - 170	9
Total	2,100		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of 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: 21606001-1TM23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 17%	dF: 6 Result: 12.7738 Critical value: 12.5916 Inside Similar: No	Result: 0.5333	dF: 11 Result: 0.3818 Critical value: 0.5273 Outside Similar: No	Score: 137 Result: Low

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

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Re: 21606001-1

Date of Sampling: 06-28-2016
Date of Receipt: 06-28-2016
Date of Report: 06-29-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21606001-1TM24

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 14%	dF: 6 Result: 12.7738 Critical value: 12.5916 Inside Similar: No	Result: 0.4286	dF: 11 Result: 0.6591 Critical value: 0.5273 Outside Similar: Yes	Score: 113 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	160
Penicillium/Aspergillus types	110
Smuts, Periconia, Myxomycetes	27
Total	290

Location: 21606001-1TM25

% 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: 6 Result: 12.7738 Critical value: 12.5916 Inside Similar: No	Result: 0.1538	dF: 12 Result: 0.2885 Critical value: 0.4965 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	53
Other brown	13
Total	67

Location: 21606001-1TM26

% 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: 6 Result: 12.7738 Critical value: 12.5916 Inside Similar: No	Result: 0.4286	dF: 11 Result: 0.5273 Critical value: 0.5273 Outside Similar: No	Score: 129 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	53
Penicillium/Aspergillus types	210
Rusts	13
Total	280

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Sampling: 06-28-2016
Date of Receipt: 06-28-2016
Date of Report: 06-29-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21606001-1TM27

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 6 Result: 12.7738 Critical value: 12.5916 Inside Similar: No	Result: 0.1667	dF: 11 Result: 0.6341 Critical value: 0.5273 Outside Similar: Yes	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K	
Basidiospores		53
Total		53

Location: 21606001-1TM28

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 9%	dF: 6 Result: 12.7738 Critical value: 12.5916 Inside Similar: No	Result: 0.4286	dF: 11 Result: 0.6409 Critical value: 0.5273 Outside Similar: Yes	Score: 114 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K	
Cladosporium		53
Penicillium/Aspergillus types		110
Smuts, Periconia, Myxomycetes		40
Total		200

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Sampling: 06-28-2016
Date of Receipt: 06-28-2016
Date of Report: 06-29-2016

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21606001-1TM29

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 74%	dF: 6 Result: 12.7738 Critical value: 12.5916 Inside Similar: No	Result: 0.6667	dF: 12 Result: 0.6329 Critical value: 0.4965 Outside Similar: Yes	Score: 134 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	370
Botrytis	13
Cladosporium	640
Other brown	27
Penicillium/Aspergillus types	370
Rusts	27
Smuts, Periconia, Myxomycetes	110
Total	1,600

* 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.

EMLab P&K
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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Sampling: 06-28-2016
Date of Receipt: 06-28-2016
Date of Report: 06-29-2016

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21606001-1TM22OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: June in California† (n‡=19034)						Typical Outdoor Data for: The entire year in California† (n‡=230447)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	13	13	13	27	67	110	63	13	13	27	65	110	53
Bipolaris/Drechslera group	-	7	13	13	27	41	12	7	13	13	27	53	12
Chaetomium	27	8	13	13	27	40	24	8	13	13	27	48	19
Cladosporium	530	110	210	590	1,400	2,200	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	27	40	4	7	13	13	27	53	6
Nigrospora	-	7	13	13	13	27	4	7	13	13	27	53	9
Other brown	-	13	13	13	40	53	36	13	13	13	40	53	34
Other colorless	53	8	13	13	27	53	5	10	13	13	38	53	5
Penicillium/Aspergillus types	210	53	53	190	480	750	82	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	27	53	5	7	13	13	33	67	4
Torula	13	10	13	13	40	67	18	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	160	13	40	100	250	430	70	27	53	110	370	750	71
Basidiospores	590	40	53	160	450	880	90	53	80	260	1,000	2,400	93
Botrytis	13	13	13	13	40	67	17	13	13	20	53	80	16
Rusts	40	13	13	27	53	100	38	13	13	13	53	87	26
Smuts, Periconia, Myxomycetes	440	13	23	53	160	310	79	13	13	40	110	200	68
§ TOTAL SPORES/m3	2,100												

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

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

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

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

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes ouly 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
A TestAmerica Company

Report for:

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

Regarding: Project: 21606001-1
EML ID: 1561658

Approved by:

Technical Manager
Louise White

REVISED REPORT

Dates of Analysis:
Spore trap analysis: 06-30-2016

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

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21606001-1

Date of Sampling: 06-28-2016
Date of Receipt: 06-28-2016
Date of Report: 06-29-2016

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21606001-1TM22OUT		21606001-1TM23		21606001-1TM24		21606001-1TM25	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	7240571-2		7240572-2		7240573-2		7240574-2	
Analysis Date:	06/30/2016		06/30/2016		06/30/2016		06/30/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13						
Ascospores	3	160	1	53				
Basidiospores	11	590						
Botrytis	1	13						
Chaetomium	2	27	1	13				
Cladosporium	10	530			3	160	1	53
Myrothecium								
Nigrospora								
Other brown							1	13
Other colorless	4	53						
Penicillium/Aspergillus types†	4	210	5	270	2	110		
Pithomyces								
Rusts	3	40						
Smuts, Periconia, Myxomycetes	33	440	2	27	2	27		
Stachybotrys								
Stemphylium								
Torula	1	13						
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		3+		3+		2+	
Hyphal fragments/m3	80		27		13		< 13	
Pollen/m3	160		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		2+		2+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		2,100		360		290		67

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^3 divided by the raw count, expressed in spores/m^3. The limit of detection is the analytical sensitivity (in spores/m^3) 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/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: 21606001-1

Date of Sampling: 06-28-2016
Date of Receipt: 06-28-2016
Date of Report: 06-29-2016

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21606001-1TM26		21606001-1TM27		21606001-1TM28		21606001-1TM29	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	7240575-2		7240576-2		7240577-2		7240578-2	
Analysis Date:	06/30/2016		06/30/2016		06/30/2016		06/30/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores								
Basidiospores	1	53	1	53			7	370
Botrytis							1	13
Chaetomium								
Cladosporium					1	53	12	640
Fusarium								
Myrothecium								
Nigrospora								
Other brown							2	27
Other colorless								
Penicillium/Aspergillus types†	4	210			2	110	7	370
Pithomyces								
Rusts	1	13					2	27
Smuts, Periconia, Myxomycetes					3	40	8	110
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		3+		3+	
Hyphal fragments/m3	13		< 13		< 13		27	
Pollen/m3	< 13		< 13		27		< 13	
Skin cells (1-4+)	2+		1+		2+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		280		53		200		1,600

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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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.

HYGIENE TECHNOLOGIES INTERNATIONAL

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

Request For Analysis

Project Number/Purchase Order: 21606001-1

Date Submitted: 06-07-16

Project Contact: L. Sandhu/K.Hsi

Turnaround Required: Normal

Lab Destination: EMLAB P & K

Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21606001-1TM01OUT	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM02	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM03	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM04	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM05	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM06	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)

Special Instructions : Random Sampling (Round 1)

1. **Sampled by:** _____ on 06-07-16@ 1606 hrs **Received by:** _____ 6/7/16 2p
2. **Relinquished by:** _____ on 06-07-16@ ____ hrs **Received by:** _____
3. **Relinquished by:** _____ **Received by:** _____

Please include signature, date, and time

Lab Use Only:

HYGIENE TECHNOLOGIES INTERNATI

001554687

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

Request For Analysis

Project Number/Purchase Order: 21606001-1

Date Submitted: 06-14-16

Project Contact: L. Sandhu/K.Hsi

Turnaround Required: Normal

Lab Destination: EMLAB P & K

Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21606001-1TM07OUT	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM08	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM09	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM10	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM11	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM12	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)

Special Instructions : Random Sampling (Round 2)

1. **Sampled by:** [signature] on 06-14-16@ [illegible] hrs
2. **Reliquished by:** [signature] on 06-14-16@ 1311 hrs
3. **Reliquished by:** _____

Received by: _____

Received by: Joyce Paguyo 6/14/16 1311

Received by: _____

Please include signature, date, and time

Lab Use Only:

001558821

HYGIENE TECHNOLOGIES INTERNATIONAL

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

Request For Analysis

Project Number/Purchase Order: 21606001-1

Date Submitted: 06-21-16

Project Contact: L. Sandhu/K.Hsi

Turnaround Required: Normal

Lab Destination: EMLAB P & K

Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21606001-1TM13OUT	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM14	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM15	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM16	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM17	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM18	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM19	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)

Special Instructions : Random Sampling (Round 3)

1. **Sampled by:** [signature] on 06-21-16@1442 hrs — **Received by:** [signature] 6/22/16 13:07
2. **Relinquished by:** [signature] on 06-21-16@1607 hrs — **Received by:** [signature]
3. **Relinquished by:** [signature] — **Received by:** [signature]

Please include signature, date, and time

Lab Use Only:

HYGIENETECH
Hygiene Technologies International, Inc.
3626 Del Amo
Torrance,
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

001560290

Request For Analysis

Project Number/~~Purchase Order~~: 2160600-1 Date Submitted: 06/24/16

Project Contact: L Sandhu (K-HS) Turnaround Required: Normal

Lab Destination: EMLAB Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
2160600-1 TM120M	75L	Air-o-cell	Spore Trap Analysis (Candida hum
2160600-1 TM21	75L	Air-o-cell	↓ ↓

Special Instructions:

1. **Sampled by:** K Sandhu on 6/24/16 @ 0730
2. **Relinquished by:** K Sandhu on 06/24/16 @ 1605
3. **Relinquished by:** _____

Please include signature, date, and time

Received by: Jaylee Pagayo 16:10 6/24/16

Received by: _____

Received by: _____

Lab Use Only:

HYGIENE TECHNOLOGIES INTERNATIONAL

3625 DEL AMO BOULEVARD, SUITE 160, TORRANCE, CA 90503 • (310) 370-8370 • FAX (310) 370-2474

Request For Analysis

Project Number/Purchase Order: 21606001-1

Date Submitted: 06-28-16

Project Contact: L. Sandhu/K.Hsi

Turnaround Required: Normal

Lab Destination: EMLAB P & K

Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21606001-1TM22OUT	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM23	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM24	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM25	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM26	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM27	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM28	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
21606001-1TM29	75 L	Air-O-Cell	Spore Trap Analysis (Total Fungi)

Special Instructions : Random Sampling (Round 4)

1. **Sampled by:** [signature] on 06-28-16@ 1345hrs **Received by:** [signature]
2. **Relinquished by:** [signature] on 06-28-16@ 1700 hrs **Received by:** Joyce Pagulayan 6/28/16 17:00
3. **Relinquished by:** _____ **Received by:** _____

Please include signature, date, and time

Lab Use Only: