



HYGIENETECH

Hygiene Technologies International, Inc.

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June 30, 2010

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

Document No. 21006001.2

Attention: David Gau

Regarding: Limited Indoor Air Quality Survey
10th Floor Pre-Occupancy Assessment

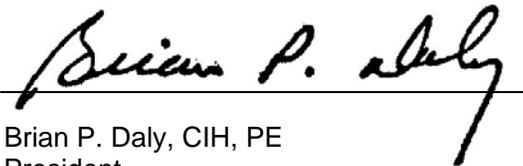
Dear Mr. Gau:

On June 7, 2010, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited indoor air quality survey on the 10th Floor of the State of California Board of Equalization (BOE) building located at the above mentioned address. This survey was performed in response to BOE's need to reoccupy the 10th Floor subsequent to fungal growth remediation and other renovation work performed under the direction of the State of California Department of General Services (DGS) on that floor. At the time of the survey, various samples were collected and direct-reading instruments were used to assess the general indoor air quality. I have enclosed our report, which included general observations, sample and direct-reading results, a discussion of the data, conclusions, and recommendations.

If you have any comments or questions regarding the information contained in this report, please do not hesitate to contact our offices directly at (310) 370-8370.

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.



Brian P. Daly, CIH, PE
President



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**LIMITED INDOOR AIR QUALITY SURVEY
PRE-OCCUPANCY ASSESSMENT – 10TH FLOOR**

**450 N STREET
SACRAMENTO, CALIFORNIA**

PREPARED FOR:

**STATE OF CALIFORNIA
BOARD OF EQUALIZATION
450 N STREET
SACRAMENTO, CALIFORNIA**

PREPARED BY:

**HYGIENE TECHNOLOGIES INTERNATIONAL, INC.
3625 DEL AMO BOULEVARD, SUITE 180
TORRANCE, CALIFORNIA**

JUNE 30, 2010



1.0 BACKGROUND

On June 7, 2010, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited indoor air quality survey on the 10th Floor of the State of California Board of Equalization (BOE) building located at 450 N Street in Sacramento, California. This survey was performed in response to BOE's need to reoccupy the 10th Floor subsequent to fungal growth remediation and other renovation work performed under the direction of the State of California Department of General Services (DGS) on that floor. During the survey, a variety of samples were collected and direct-reading instruments were used to assess the general indoor air quality on the 10th Floor of the subject building. Various air samples were collected in order to assess fungal growth exposure potentials. In addition, air samples were collected throughout the floor for fibrous dust, 4-phenylcyclohexene, formaldehyde, and total dust analysis. Direct-reading instruments were also used to determine airborne volatile organic compounds (VOCs), carbon dioxide (CO₂), air temperature, and relative humidity.

2.0 OBSERVATIONS

The interior building materials of the 10th Floor included, but were not limited to, metal window frames; painted gypsum board and/or metal windowsills; metal doorjambes and door frames; painted gypsum board walls in the general work areas; tile covered walls and painted gypsum board ceilings in the restrooms; suspended 2' by 4' ceiling tiles and or gypsum board ceilings in the general work areas; ceramic or vinyl tile flooring in the restrooms and break rooms; and carpet flooring in the general work areas.

The floor was unoccupied on the survey date but was furnished with typical office desks, upholstered chairs, shelves, fabric covered cubicles, and other general office items. Note that new carpet had been installed and fresh paint had been applied throughout the floor in the weeks preceding the survey dates.

3.0 SAMPLING AND ANALYSIS

Air samples were collected and 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. Other samples were collected for airborne fibers, 4-phenylcyclohexene, formaldehyde, and total dust determinations using the appropriate sampling media. Pump flow rates were established and verified using a BIOS DryCal DC-Lite primary flow meter. Those samples were collected and analyzed along with blanks (identical sampling media through which no air was drawn) at laboratories accredited by the American Industrial Hygiene Association (AIHA) through successful participation in the National Institute for Occupational Safety and Health (NIOSH) Proficiency Analytical Testing Program. Direct-reading instruments were used to determine airborne VOC levels, the results of which appear in Table 21006001-6 in Appendix A of this report. A discussion of the airborne CO₂ data, along with air temperature and relative humidity results, appears in Section 4.0 of this report. Additional information concerning the specific sampling and analytical methods appears below.

3.1 Airborne Total Fungi

Air samples for airborne total (viable and nonviable) fungi determinations were collected using a Zefon brand Bio-Pump™ equipped with Air-O-Cell™ cassettes. All such samples were collected at various indoor locations and two samples were collected outdoors for comparison purposes. The resultant data, which are presented in spores per cubic meter of air (spores/M³), appear in Table 21006001-1.



3.0 SAMPLING AND ANALYSIS (CONTINUED)

3.2 Airborne Fibrous Dust

Area air samples for fibrous dust were collected at stationary locations on 25-millimeter diameter, 0.8-micrometer pore size, mixed cellulose ester filters. The samples were analyzed by phase contrast microscopy (PCM) in accordance with the NIOSH Method 7400. These data are presented in fibers per cubic centimeter (f/cc) of air in Table 21006001-2.

3.3 Airborne Total Dust

Area air samples for total dust determination were collected at stationary locations on filter cassettes containing pre-weighed 37-millimeter diameter, polyvinyl chloride filters having a pore size of five micrometers. The samples were analyzed by gravimetric method in accordance with the NIOSH Method 0500. These data are presented in milligrams per cubic meter of air (mg/M³) and appear in Table 21006001-3.

3.4 Formaldehyde

Area air samples were collected for formaldehyde determinations using DNPH silica gel sorbent tubes. The analyses were performed by high performance liquid chromatography using an ultraviolet detector in accordance with a modified NIOSH Method 2016. These data are presented in parts per million (ppm) and appear in Table 21006001-4.

3.5 Airborne 4-Phenylcyclohexene

Area air samples for 4-phenylcyclohexene were collected on solid sorbent Carbo Trap 300 tubes equipped with Sagelock fittings and each sample was analyzed by gas chromatography with mass spectrometry detection (GC-MS) in accordance with the modified U.S. EPA Method TO17. These data are presented in parts per billion volume (ppbv) and appear in Table 21006001-5.

3.6 Airborne Volatile Organic Compounds

Direct-reading air measurements for VOCs were also recorded at various locations on the 10th Floor using a RAE Systems, Inc. Mini-RAE 2000 photoionization detector, which is capable of detecting a wide variety of unsaturated hydrocarbons at airborne concentrations ranging from 0.1 to 10,000 parts per million (ppm). Prior to the survey, this instrument was calibrated using a 100-ppm isobutylene gas standard. These data are presented in ppm.

3.7 Airborne Carbon Dioxide

Direct-reading air measurements for airborne CO₂ concentration was recorded at a stationary location using a Telaire[®] 7001 Carbon Dioxide and Temperature Monitor. The data are presented in ppm.

3.8 Air Temperature and Relative Humidity

Air temperature and relative humidity data were recorded at stationary locations using an Extech Instrument hygro-thermometer.



4.0 DISCUSSION

4.1 Airborne Total Fungi

The airborne total fungi data showed mostly common spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Botrytis*, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, rusts, *Epicoccum*, *Oidium*, smuts, *Stemphylium*, and/or *Torula*, with basidiospores predominating. Indoors, the ambient data showed low airborne concentrations of common fungal spore types such as ascospores, basidiospores, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, and/or smuts. Indoors, the distribution of fungal spore types detected in the surveyed areas was consistent with those found outdoors, and the overall data within the tested areas were well below the overall data recorded outdoors. These data are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

4.2 Airborne Fibrous Dust

The data recorded in the surveyed areas indicated that airborne fibrous dusts were either not detected at or above the laboratory detection limit of 0.001 f/cc or were detected at 0.001 f/cc and 0.002 f/cc. Because the samples were collected at stationary locations at approximate breathing zone height, the resultant data are expected to represent building occupant *exposure potentials* for those persons working in or passing through the areas monitored. These data, which are expected to represent employee *exposure potentials* to fibers of various types, including man-made and natural mineral fibers, cellulose (paper or wood composition), gypsum, and other fibrous dusts common in the environment, are well below the current Cal-OSHA 8-hour TWA PEL for asbestos fibers of 0.1 f/cc, the most restrictive exposure limit for fibrous dusts.

4.3 Airborne Total Dust

Common dust that is typically identified in buildings usually contains a wide variety of materials including, but not limited to, gypsum crystals, cellulosic particles, fiberglass fragments, mineral grains from soil, fungi spores, fine glass fibers, textile and wood fibers, iron or steel fragments, dead skin cells, insect parts, animal dander, and pollens. Generally, exposure to low levels of such materials does not produce ill effects in most persons. In fact, these so-called *nuisance dusts* have a long history of little adverse effect to the lungs and are not known to produce significant diseases or toxic effects, such as collagen (scar tissue) formation, when exposure are kept under reasonable control.

The data recorded in the surveyed areas showed that airborne total dust was not detected at or above the respective laboratory analytical detection limits of 0.20 and 0.21 mg/M³. Because the samples were collected at stationary locations at approximate breathing zone height, the resultant data are expected to represent building occupant *exposure potentials* for those persons working in or passing through the areas monitored. These data are well below the State of California, Department of Industrial Relations, Division of Occupational Safety and Health (Cal-OSHA) 8-hour time-weighted average (TWA) permissible exposure limit (PEL) for total dust of 10 mg/M³, as defined in Title 8 of the California Code of Regulations, Section 5155 (T8, CCR § 5155). Note that these data are also well below the American Conference of Governmental Industrial Hygienists 8-hour TWA threshold limit value (TLV-TWA) for particulate (not otherwise classified) of 10 mg/M³; the U.S. Environmental Protection Agency (EPA) National Ambient Air Quality Primary Standard of 0.26 mg/M³ (24-hour standard); and the American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc. (ASHRAE) theoretical value for non-occupational environments of 1/10 of the TLV.



4.0 DISCUSSION (CONTINUED)

4.4 Formaldehyde

The data recorded in the surveyed areas indicated that airborne formaldehyde was either not detected at or above the laboratory detection limit of 0.005 ppm or were detected at levels ranging from 0.008 ppm to 0.01 ppm. Because these samples were collected at stationary locations at approximate breathing zone height, the resultant data are expected to represent building occupant *exposure potentials* for those persons working in or passing through the areas monitored. These data are well below the State of California, Department of Industrial Relations, Division of Occupational Safety and Health (Cal-OSHA) 8-hour time-weighted average (TWA) permissible exposure limit (PEL) for Formaldehyde of 0.75 ppm, as defined in Title 8 of the California Code of Regulations, Section 5155 (T8, CCR § 5155).

4.5 Airborne 4-Phenylcyclohexene

The airborne data indicated that 4-phenylcyclohexene was not detected at or above the laboratory analytical detection limits indicated. Although current standards or guidelines have not been established for 4-phenylcyclohexene at the time of this report, all such data are considered unremarkable.

4.6 Airborne Volatile Organic Compounds

With the use of a direct-reading photoionization detector, VOCs were detected indoors at average levels of 0.3 ppm with peaks of 0.4 ppm. Because these data were recorded at stationary locations at approximate breathing zone height, the results are expected to represent building occupant *exposure potentials* for those persons occupying or passing through the areas monitored. These data were well below the surrogate Cal-OSHA PELs that are often used for comparative purposes regarding VOC exposures, such as those for gasoline, hexane, and varnish makers and painters (VM&P) naphtha.

4.7 Airborne Carbon Dioxide

The direct-reading results indicated that CO₂ was detected at levels ranging from 471 to 661 ppm on the 10th Floor. While these data were somewhat higher than the expected outdoor CO₂ levels, which generally range between 320 and 350 ppm, they are considered normal for indoor environments and they are all well below the Cal-OSHA 8-hour TWA PEL for CO₂ of 5000 ppm (T8, CCR, § 5155). They are also below the level of 1000 ppm, which is essentially equivalent to the recommended upper limit for building occupant comfort and odor control established by ASHRAE (not greater than 700 ppm above the outdoor CO₂ value) as stated in ASHRAE 62-2001.

Based on historic studies performed by HygieneTech, building occupant complaints of "stuffy" air often begin when CO₂ levels exceed 800 ppm. HygieneTech has also found that some sensitive persons may experience discomfort, including eye irritation and headache, when CO₂ levels reach 1,000 ppm. Such symptoms are not believed to be the result of an unhealthy exposure to CO₂; rather, they are thought to be the result of exposure to other common indoor air pollutants which, if not exhausted and/or diluted, can accumulate over time.

4.8 Air Temperature and Relative Humidity

The recorded air temperatures ranged between 72.0 and 75.1 degrees Fahrenheit (°F). Based on the experience of HygieneTech, the air temperatures perceived as comfortable by most persons in office environments, and recommended by ASHRAE for occupant comfort, range between 68.0 and 74.5°F (winter) and 73.0 and 79.0°F (summer).



4.0 DISCUSSION (CONTINUED)

4.8 Air Temperature and Relative Humidity (Continued)

Relative humidity data were recorded indoors at levels ranging from 45.9 to 49.1 percent. Such levels were well within the 20 to 60 percent relative humidity level range recommended by ASHRAE for occupant comfort. Note that HygieneTech recommends that the relative humidity in buildings not exceed 50 percent in order to limit the potential for fungal growth.

5.0 CONCLUSIONS

- 5.1 The airborne total fungi data recorded in the surveyed areas showed airborne fungi levels that were below those recorded outdoors and therefore considered unremarkable. These data are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.
- 5.2 The airborne total and fibrous dust, 4-phenylcyclohexene, formaldehyde, VOC, and CO₂ levels recorded during the survey were unremarkable. Collectively, the data were well below applicable Cal-OSHA 8-hour TWA PELs and/or other occupational, non-occupational, ASHRAE, or foreign guidelines. The data are not expected to represent conditions that pose a measurable health risk to the building occupants.
- 5.3 The air temperatures recorded were generally within the ASHRAE recommended guidelines for occupant comfort. Relative humidity data were recorded indoors at levels ranging from 45.9 to 49.1 percent, which were well within the 20 to 60 percent relative humidity level range recommended by ASHRAE. Note that HygieneTech recommends that the relative humidity in buildings not exceed 50 percent in order to limit the potential for fungal growth.
- 5.4 Be advised that the data provided in this report only represent fungal growth exposure potentials that existed at the time the survey was performed and at the precise sample locations only, the latter of which were selected based on the available background information provided. 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 survey.

6.0 RECOMMENDATIONS

All such recommendations are based strictly on the assessment information and analytical data that were available to HygieneTech at the time this report was prepared. Be advised that, in order to establish data that accurately reflects all the fungal growth sites on the 10th Floor, additional assessment evaluations may be required as more information is known regarding the history of water intrusion episodes in discrete building areas.

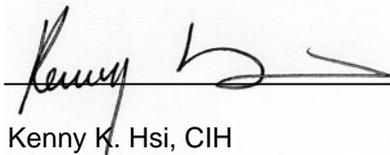
- 6.1 Additional fungal growth remediation is potentially required within the core of the 10th Floor due to known fungal growth reservoirs confirmed in similar areas on other floors during destructive testing, as stated by LaCroix Davis, LLC in their *California State Board of Equalization Building Assessment – Final Report* dated February 29, 2009. The purpose of this assessment was to allow the BOE to safely reoccupy the 10th Floor. Until such time that these confirmed fungal growth and perhaps other unknown reservoirs are remediated within the structure, it is highly likely that complaints related to fungal growth-like odors, which has been a common concern on several floor, will continue to be an issue. The HygieneTech investigation into the odor complaints, conclusions, and recommendations can be found in HygieneTech Document No. 20903001.1 dated May 4, 2009.



6.0 RECOMMENDATIONS (CONTINUED)

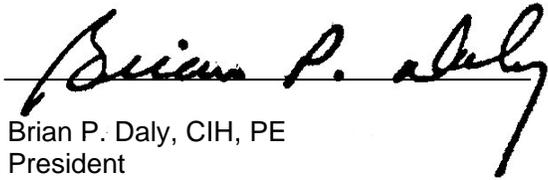
- 6.2 If not yet established, an accurate record of all air monitoring results should be maintained in accordance with Cal-OSHA regulation found in T8, CCR § 3204. All affected employees should be informed that the *exposure potential* data in this report exist and that those persons, or their representatives, have a right to access relevant exposure data and medical records.
- 6.3 Also be advised that the exposure data recorded during the survey may not be sufficiently broad to adequately assess the suitability of the indoor air quality for all individuals, particularly those who are extremely sensitive to certain chemical and/or biological substances or for those individuals with immune system deficiencies. Although not expected, if persons occupying or passing through the 10th Floor do experience non-specific ill effects of unknown etiology, then those affected should be referred to a medical professional in order to determine or specify the possible cause(s) of such reactions. If more information becomes available, further investigation and air monitoring may be warranted.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.



Kenny K. Hsi, CIH
Technical Director

Date: June 30, 2010



Brian P. Daly, CIH, PE
President

Date: June 30, 2010

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

**TABLE 21006001-1
AIRBORNE TOTAL FUNGI RESULTS
10TH FLOOR
SACRAMENTO, CALIFORNIA
JUNE 7, 2010**

Page 1

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

SAMPLE NUMBER	21006001-1 TM01OUT	21006001-1 TM02	21006001-1 TM03	21006001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet west of building; approximately five feet above ground/Normal outdoor activities	Column K18 area; Cubicle 4 entryway; approximately five feet above floor/Sampling activities only	Area between Column K20 and J20; Printing/Fax station; about center; approximately five feet above floor/Sampling activities only	Column K22 area; Cubicle 56 entryway; approximately five feet above floor/Sampling activities only
START/STOP	09:47:00/09:52:00	10:44:00/10:49:00	10:51:00/10:56:00	10:59:00/11:04:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	93			
Arthrinium				
Ascospores	910			
Aureobasidium				
Basidiospores	13,000	53	160	270
Bipolaris/Drechslera group				
Botrytis	13			
Chaetomium	13			
Cladosporium	3,600			53
Curvularia				
Epicoccum	13			
Fusarium				
Myrothecium				
Oidium	13			
Other brown	13			
Penicillium/Aspergillus types	210			
Pithomyces				
Rusts	80			
Smuts, Periconia, Myxomycetes	720			
Stachybotrys				
Stemphylium				
Torula	67			
Ulocladium				
Hyphal fragments	67	<13	<13	<13
Background debris*	3+	1+	1+	1+
TOTAL **	18,000	53	160	320

*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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**TABLE 21006001-1
AIRBORNE TOTAL FUNGI RESULTS
10TH FLOOR
SACRAMENTO, CALIFORNIA
JUNE 7, 2010**

Page 2

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

	21006001-1 TM05	21006001-1 TM06	21006001-1 TM07	21006001-1 TM08
SAMPLING LOCATION/ACTIVITIES	Area between Column L23 and M23; Cubicle 60; about center; approximately five feet above floor/Sampling activities only	Column N22 area; Cubicle 84; about center; approximately five feet above floor/Sampling activities only	Column O20 area; Cubicle 98; about center; approximately five feet above floor/Sampling activities only	Column N18 area; Cubicle 112; about center; approximately five feet above floor/Sampling activities only
START/STOP	11:06:00/11:11:00	11:12:00/11:17:00	11:19:00/11:24:00	11:26:00/11:31:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores	53	110		
Aureobasidium				
Basidiospores	110	430	270	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	53	53	
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types	53	53		
Pithomyces				
Rusts				
Smuts, Periconia, Myxomycetes	53			13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background debris*	1+	1+	1+	1+
TOTAL **	320	640	320	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+.

**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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**TABLE 21006001-1
AIRBORNE TOTAL FUNGI RESULTS
10TH FLOOR
SACRAMENTO, CALIFORNIA
JUNE 7, 2010**

Page 3

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

SAMPLE NUMBER	21006001-1 TM09	21006001-1 TM10OUT		
SAMPLING LOCATION/ACTIVITIES	Area between Column M17 and L17; Cubicle 146; about center; approximately five feet above floor/Sampling activities only	Outdoors; about 10 feet west of building; approximately five feet above ground/Normal outdoor activities	This column intentionally left blank	This column intentionally left blank
START/STOP	11:32:00/11:37:00	11:49:00/11:54:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria		67		
Arthrinium				
Ascospores		2,000		
Aureobasidium				
Basidiospores	53	13,000		
Bipolaris/Drechslera group				
Botrytis		27		
Chaetomium				
Cladosporium	53	3,600		
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types		750		
Pithomyces				
Rusts		53		
Smuts, Periconia, Myxomycetes		590		
Stachybotrys				
Stemphylium		13		
Torula		110		
Ulocladium				
Hyphal fragments	40	160		
Background debris*	1+	2+		
TOTAL **	110	20,000		

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

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

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Sacramento, California 94279

TABLE 21006001-2
10TH FLOOR
AIRBORNE FIBERS RESULTS
SACRAMENTO, CALIFORNIA
JUNE 7, 2010

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (f/cc)	PEL (f/cc)
Area Sample	Column K20; Cubicle 35; northern cubicle partition; approximately five feet above floor/Sampling activities only	N/A	21006001-2 F01	08:51/ 12:53	242 minutes	Fibers	0.001	0.1
Area Sample	Column L23 area; Cubicle 60; eastern cubicle partition; approximately five feet above floor/Sampling activities only	N/A	21006001-2 F02	08:52/ 13:01	249 minutes	Fibers	<0.001	0.1
Area Sample	Column N20 area; Cubicle 78; southern cubicle partition; approximately five feet above floor/Sampling activities only	N/A	21006001-2 F03	12:55/ 16:55	240 minutes	Fibers	<0.001	0.1
Area Sample	Area between Column M17 and L17; Cubicle 145; western cubicle partition; approximately five feet above floor/Sampling activities only	N/A	21006001-2 F04	13:04/ 17:04	240 minutes	Fibers	0.002	0.1
Blank	N/A	N/A	21006001-2 F05BLANK	N/A	N/A	Fibers	All data blank corrected	N/A

LEGEND

PPE: Personal protective equipment
N/A: Not applicable
PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

<: Less than
f/cc: Fibers per cubic centimeter of air

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APPENDIX A



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Sacramento, California 94279

TABLE 21006001-3
10TH FLOOR
AIRBORNE TOTAL DUST RESULTS
SACRAMENTO, CALIFORNIA
JUNE 7, 2010

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/M ³)	PEL (mg/M ³)
Area Sample	Column K20 area; Cubicle 24; southern end; approximately five feet above floor/Sampling activities only	N/A	21006001-3 TD01	08:48/ 12:49	241 minutes	Total Dust	<0.21	10
Area Sample	Room 1013; Cubicle 53; eastern end; approximately four feet above floor/Sampling activities only	N/A	21006001-3 TD02	08:50/ 12:51	241 minutes	Total Dust	<0.21	10
Area Sample	Column N20 area; Cubicle 119; eastern end; approximately five feet above floor/Sampling activities only	N/A	21006001-3 TD03	08:51/ 12:58	247 minutes	Total Dust	<0.20	10
Area Sample	Column L17 area; Cubicle 1; northern end; approximately five feet above floor/Sampling activities only	N/A	21006001-3 TD04	08:53/ 12:59	246 minutes	Total Dust	<0.20	10
Blank	N/A	N/A	21006001-3 TD05BLANK	N/A	N/A	Total Dust	All data blank corrected	N/A

LEGEND

PPE: Personal protective equipment
N/A: Not applicable
mg/M³: Milligrams per cubic meter

<: Less than
PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

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Sacramento, California 94279

TABLE 21006001-4
10TH FLOOR
AIRBORNE FORMALDEHYDE RESULTS
SACRAMENTO, CALIFORNIA
JUNE 7, 2010

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (ppm)	PEL (ppm)
Area Sample	Column K20 area; Cubicle 35; northern end; approximately five feet above floor/Sampling activities only	N/A	21006001-4 FO01	13:29/ 14:59	90 minutes	Formaldehyde	0.008	0.75
Area Sample	Column K18 area; Room 1010; northern end; approximately five feet above floor/Sampling activities only	N/A	21006001-4 FO02	13:31/ 15:01	90 minutes	Formaldehyde	<0.005	0.75
Area Sample	Column N19 area; Cubicle 117; southern end; approximately five feet above floor/Sampling activities only	N/A	21006001-4 FO03	13:32/ 15:02	90 minutes	Formaldehyde	0.009	0.75
Area Sample	Column N22 area; Cubicle 67; western end; approximately five feet above floor/Sampling activities only	N/A	21006001-4 FO04	13:34/ 15:04	90 minutes	Formaldehyde	0.01	0.75
Blank	N/A	N/A	21006001-4 FO05BLANK	N/A	N/A	Formaldehyde	All data blank corrected	N/A

LEGEND

PPE: Personal protective equipment
N/A: Not applicable
ppm: Parts per million

<: Less than
PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 21006001-5
10TH FLOOR
AIRBORNE 4-PHENYLCYCLOHEXENE RESULTS
SACRAMENTO, CALIFORNIA
JUNE 7, 2010

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (ppbv)	PEL (ppm)
Area Sample	Column K18 area; Room 1010; northern end; approximately five feet above floor/Sampling activities only	N/A	21006001-5 PCH01	09:30/ 15:30:	360 minutes	4-Phenylcyclohexene	<0.072	N/A
Area Sample	Column N22 area; Room 1003; western end; about five feet south of entry door; approximately five feet above floor/Sampling activities only	N/A	21006001-5 PCH02	09:38/ 15:38:	360 minutes	4-Phenylcyclohexene	<0.089	N/A
Blank	N/A	N/A	21006001-5 PCH03BLANK	N/A	N/A	4-Phenylcyclohexene	NA	N/A

LEGEND

PPE: Personal protective equipment
N/A: Not applicable
PPBV: Parts per billion volume

<: Less than
PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 21006001-6
DIRECT-READING RESULTS
10TH FLOOR
SACRAMENTO, CALIFORNIA
JUNE 7, 2010

LOCATION/SITE ACTIVITIES	SAMPLE TIME	CONTAMINANT	RESULTS (ppm)	COMMENTS
Southern quadrant; approximately five feet above floor/Sampling activities only	12:10/12:20	Volatile Organic Compounds	Average: 0.3 Peak: 0.4	N/A
Western quadrant; approximately five feet above floor/Sampling activities only	12:21/12:31	Volatile Organic Compounds	Average: 0.3 Peak: 0.4	N/A
Northern quadrant; approximately five feet above floor/Sampling activities only	12:39/12:49	Volatile Organic Compounds	Average: 0.3 Peak: 0.4	N/A
Eastern quadrant; approximately five feet above floor/Sampling activities only	13:00/13:10	Volatile Organic Compounds	Average: 0.3 Peak: 0.4	N/A

LEGEND

ND: Not detected
<: Less than

N/A: Not applicable
ppm: Parts per million



Report for:

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

Regarding: Project: 21006001-1
EML ID: 666356

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Spore trap analysis: 06-08-2010

Service SOPs: Spore trap analysis (I100000)

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

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

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21006001-1

Date of Sampling: 06-07-2010
Date of Receipt: 06-07-2010
Date of Report: 06-08-2010

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21006001-1-TM01OUT		21006001-1-TM02		21006001-1-TM03		21006001-1-TM04	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	2956590-1		2956591-1		2956592-1		2956593-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	7	93						
Arthrinium								
Ascospores*	17	910						
Aureobasidium								
Basidiospores*	238	13,000	1	53	3	160	5	270
Bipolaris/Drechslera group								
Botrytis	1	13						
Chaetomium	1	13						
Cladosporium	67	3,600					1	53
Curvularia								
Epicoccum	1	13						
Fusarium								
Nigrospora								
Oidium	1	13						
Other brown	1	13						
Penicillium/Aspergillus types†	4	210						
Pithomyces								
Rusts*	6	80						
Smuts*, Periconia, Myxomycetes*	54	720						
Stachybotrys								
Stemphylium								
Torula	5	67						
Ulocladium								
Background debris (1-4+)††	3+		1+		1+		1+	
Hyphal fragments/m3	67		< 13		< 13		< 13	
Pollen/m3	510		13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		18,000		53		160		320

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

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

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

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

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

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21006001-1

Date of Sampling: 06-07-2010
Date of Receipt: 06-07-2010
Date of Report: 06-08-2010

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21006001-1-TM05		21006001-1-TM06		21006001-1-TM07		21006001-1-TM08	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	2956594-1		2956595-1		2956596-1		2956597-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*	1	53	2	110				
Aureobasidium								
Basidiospores*	2	110	8	430	5	270	1	53
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53	1	53	1	53		
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium								
Other brown								
Penicillium/Aspergillus types†	1	53	1	53				
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*	4	53					1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Background debris (1-4+)††	1+		1+		1+		1+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		27		< 13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		320		640		320		67

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
 † 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
 ‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
 § Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21006001-1

Date of Sampling: 06-07-2010
Date of Receipt: 06-07-2010
Date of Report: 06-08-2010

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21006001-1-TM09		21006001-1-TM10OUT	
Comments (see below)	None		None	
Lab ID-Version‡:	2956598-1		2956599-1	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			5	67
Arthrinium				
Ascospores*			38	2,000
Aureobasidium				
Basidiospores*	1	53	240	13,000
Bipolaris/Drechslera group				
Botrytis			2	27
Chaetomium				
Cladosporium	1	53	68	3,600
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types†			14	750
Pithomyces				
Rusts*			4	53
Smuts*, Periconia, Myxomycetes*			44	590
Stachybotrys				
Stemphylium			1	13
Torula			8	110
Ulocladium				
Background debris (1-4+)††	1+		2+	
Hyphal fragments/m3	40		160	
Pollen/m3	< 13		170	
Skin cells (1-4+)	1+		< 1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		110		20,000

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

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

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

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

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

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu
 Re: 21006001-1

Date of Sampling: 06-07-2010
 Date of Receipt: 06-07-2010
 Date of Report: 06-08-2010

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21006001-1-TM01OUT

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: June				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	93	7	40	380	65	7	27	230	55
Bipolaris/Drechslera group	-	7	13	170	18	7	13	130	13
Chaetomium	13	7	13	120	15	7	13	120	20
Cladosporium	3,600	53	690	8,600	97	53	620	7,100	97
Curvularia	-	7	13	440	13	7	13	230	7
Epicoccum	13	7	20	320	32	7	13	160	20
Nigrospora	-	7	13	130	10	7	13	170	8
Other brown	13	7	13	93	32	7	13	93	34
Penicillium/Aspergillus types	210	27	190	2,000	76	33	210	2,400	85
Stachybotrys	-	7	13	390	3	7	13	250	5
Stemphylium	-	7	13	67	7	7	13	67	9
Torula	67	7	13	160	16	7	13	150	12
Seldom found growing indoors**									
Ascospores	910	13	210	7,300	82	13	110	2,000	70
Basidiospores	13,000	13	320	18,000	93	13	210	8,300	92
Botrytis	13	7	20	190	13	7	13	200	17
Oidium	13	7	13	240	23	7	13	190	19
Rusts	80	7	13	210	26	7	13	260	27
Smuts, Periconia, Myxomycetes	720	10	60	1,300	80	8	40	510	68
§ TOTAL SPORES/m3	18,000								

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu
 Re: 21006001-1

Date of Sampling: 06-07-2010
 Date of Receipt: 06-07-2010
 Date of Report: 06-08-2010

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21006001-1-TM10OUT

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: June				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	67	7	40	380	65	7	27	230	55
Bipolaris/Drechslera group	-	7	13	170	18	7	13	130	13
Chaetomium	-	7	13	120	15	7	13	120	20
Cladosporium	3,600	53	690	8,600	97	53	620	7,100	97
Curvularia	-	7	13	440	13	7	13	230	7
Epicoccum	-	7	20	320	32	7	13	160	20
Nigrospora	-	7	13	130	10	7	13	170	8
Other brown	-	7	13	93	32	7	13	93	34
Penicillium/Aspergillus types	750	27	190	2,000	76	33	210	2,400	85
Stachybotrys	-	7	13	390	3	7	13	250	5
Stemphylium	13	7	13	67	7	7	13	67	9
Torula	110	7	13	160	16	7	13	150	12
Seldom found growing indoors**									
Ascospores	2,000	13	210	7,300	82	13	110	2,000	70
Basidiospores	13,000	13	320	18,000	93	13	210	8,300	92
Botrytis	27	7	20	190	13	7	13	200	17
Oidium	-	7	13	240	23	7	13	190	19
Rusts	53	7	13	210	26	7	13	260	27
Smuts, Periconia, Myxomycetes	590	10	60	1,300	80	8	40	510	68
§ TOTAL SPORES/m3	20,000								

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21006001-1

Date of Sampling: 06-07-2010
Date of Receipt: 06-07-2010
Date of Report: 06-08-2010

MoldRANGE™: Extended Outdoor Comparison

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 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, 2.5% 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.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. 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.

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu
 Re: 21006001-1

Date of Sampling: 06-07-2010
 Date of Receipt: 06-07-2010
 Date of Report: 06-08-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21006001-1-TM01OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				93	7 - 27 - 410	50
Ascospores				910	13 - 160 - 4,800	76
Basidiospores				13,000	13 - 320 - 17,000	91
Botrytis				13	7 - 13 - 230	9
Chaetomium				13	7 - 13 - 150	11
Cladosporium				3,600	27 - 480 - 9,100	92
Epicoccum				13	7 - 20 - 330	25
Oidium				13	7 - 13 - 230	14
Other brown				13	7 - 13 - 110	30
Penicillium/Aspergillus types				210	20 - 200 - 2,500	77
Rusts				80	7 - 15 - 320	21
Smuts, Periconia, Myxomycetes				720	7 - 40 - 850	67
Torula				67	7 - 13 - 170	11
Total				18,413		

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

Indoor Samples

Location: 21006001-1-TM02

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.1429	dF: 13 Result: 0.6346 Critical value: 0.4780 Outside Similar: Yes	Score: 102 Result: Low
Species Detected	Spores/m3			
	<100	1K	10K	>100K
Basidiospores				53
Total				53

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu
 Re: 21006001-1

Date of Sampling: 06-07-2010
 Date of Receipt: 06-07-2010
 Date of Report: 06-08-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21006001-1-TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.1429	dF: 13 Result: 0.6346 Critical value: 0.4780 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					160
Total					160

Location: 21006001-1-TM04

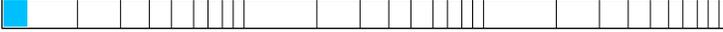
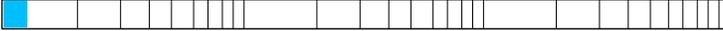
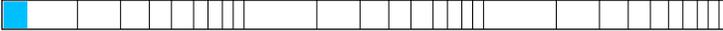
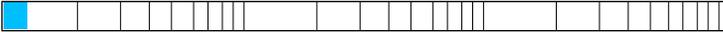
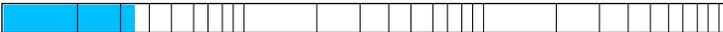
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2667	dF: 13 Result: 0.7253 Critical value: 0.4780 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					270
Cladosporium					53
Total					320

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu
 Re: 21006001-1

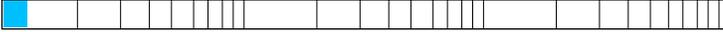
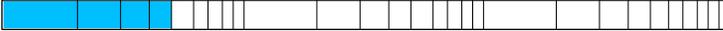
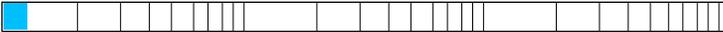
Date of Sampling: 06-07-2010
 Date of Receipt: 06-07-2010
 Date of Report: 06-08-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21006001-1-TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.5556	dF: 13 Result: 0.8984 Critical value: 0.4780 Outside Similar: Yes	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					110
Cladosporium					53
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					53
Total					320

Location: 21006001-1-TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.4706	dF: 13 Result: 0.8228 Critical value: 0.4780 Outside Similar: Yes	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					110
Basidiospores					430
Cladosporium					53
Penicillium/Aspergillus types					53
Total					640

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu
 Re: 21006001-1

Date of Sampling: 06-07-2010
 Date of Receipt: 06-07-2010
 Date of Report: 06-08-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21006001-1-TM07

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2667	dF: 13 Result: 0.7253 Critical value: 0.4780 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					270
Cladosporium					53
Total					320

Location: 21006001-1-TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2667	dF: 13 Result: 0.6593 Critical value: 0.4780 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Smuts, Periconia, Myxomycetes					13
Total					67

Location: 21006001-1-TM09

% 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: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2667	dF: 13 Result: 0.7239 Critical value: 0.4780 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Total					107

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21006001-1

Date of Sampling: 06-07-2010
Date of Receipt: 06-07-2010
Date of Report: 06-08-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

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

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

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

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 Northern California
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu
 Re: 21006001-1

Date of Sampling: 06-07-2010
 Date of Receipt: 06-07-2010
 Date of Report: 06-08-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21006001-1-TM10OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria					7 - 27 - 410	50
Ascospores					13 - 160 - 4,800	76
Basidiospores					13 - 320 - 17,000	91
Botrytis					7 - 13 - 230	9
Cladosporium					27 - 480 - 9,100	92
Penicillium/Aspergillus types					20 - 200 - 2,500	77
Rusts					7 - 15 - 320	21
Smuts, Periconia, Myxomycetes					7 - 40 - 850	67
Stemphylium					7 - 13 - 67	5
Torula					7 - 13 - 170	11
Total						

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

Indoor Samples

Location: 21006001-1-TM02

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.6364 Critical value: 0.5515 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				
	Total				

Client: Hygiene Technologies International, Inc.:
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21006001-1-TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.6364 Critical value: 0.5515 Outside Similar: Yes	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					160
Total					160

Location: 21006001-1-TM04

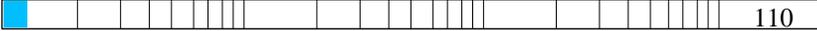
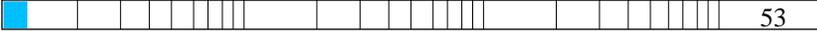
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.7455 Critical value: 0.5515 Outside Similar: Yes	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					270
Cladosporium					53
Total					320

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu
 Re: 21006001-1

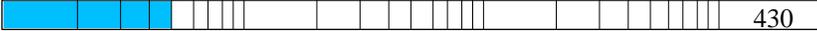
Date of Sampling: 06-07-2010
 Date of Receipt: 06-07-2010
 Date of Report: 06-08-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21006001-1-TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6667	dF: 10 Result: 0.9091 Critical value: 0.5515 Outside Similar: Yes	Score: 109 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					110
Cladosporium					53
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					53
Total					320

Location: 21006001-1-TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.5714	dF: 10 Result: 0.8727 Critical value: 0.5515 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					110
Basidiospores					430
Cladosporium					53
Penicillium/Aspergillus types					53
Total					640

Client: Hygiene Technologies International, Inc.:
 Northern California
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 Re: 21006001-1

Date of Sampling: 06-07-2010
 Date of Receipt: 06-07-2010
 Date of Report: 06-08-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21006001-1-TM07

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.7455 Critical value: 0.5515 Outside Similar: Yes	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					270
Cladosporium					53
Total					320

Location: 21006001-1-TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.5818 Critical value: 0.5515 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Smuts, Periconia, Myxomycetes					13
Total					67

Location: 21006001-1-TM09

% 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: 7 Result: 11.2000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.7424 Critical value: 0.5515 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Total					107

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21006001-1

Date of Sampling: 06-07-2010
Date of Receipt: 06-07-2010
Date of Report: 06-08-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

* 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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Client: Hygiene Technologies International, Inc.:
 Northern California
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 Re: 21006001-1

Date of Sampling: 06-07-2010
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 Date of Report: 06-08-2010

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21006001-1-TM01OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					7	93
Bipolaris/Drechslera group					ND	< 13
Chaetomium					1	13
Cladosporium					67	3,600
Curvularia					ND	< 13
Epicoccum					1	13
Nigrospora					ND	< 13
Other brown					1	13
Penicillium/Aspergillus types†					4	210
Stachybotrys					ND	< 13
Torula					5	67
Seldom found growing indoors**						
Ascospores††					17	910
Basidiospores††					238	13,000
Botrytis					1	13
Oidium					1	13
Rusts					6	80
Smuts, Periconia, Myxomycetes††					54	720
Total						18,413

Location: 21006001-1-TM02

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

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

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MoldSCORE™: Spore Trap Report

Location: 21006001-1-TM03

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

Location: 21006001-1-TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				1	53	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█	█			5	270	█			104
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						320	Final MoldSCORE 104			

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Date of Sampling: 06-07-2010
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 Date of Report: 06-08-2010

MoldSCORE™: Spore Trap Report

Location: 21006001-1-TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium	█				1	53	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	█				1	53	108			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores††	█				1	53	115			
Basidiospores††	█				2	110	100			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes††	█				4	53	108			
Total						320	Final MoldSCORE 108			

Location: 21006001-1-TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium	█				1	53	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	█				1	53	107			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores††	█				2	110	131			
Basidiospores††	█	█	█		8	430	100			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes††					ND	< 13	100			
Total						640	Final MoldSCORE 107			

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 Re: 21006001-1

Date of Sampling: 06-07-2010
 Date of Receipt: 06-07-2010
 Date of Report: 06-08-2010

MoldSCORE™: Spore Trap Report

Location: 21006001-1-TM07

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█	█	█	100
Bipolaris/Drechslera group					ND	< 13	█	█	█	100
Chaetomium					ND	< 13	█	█	█	100
Cladosporium	█				1	53	█	█	█	100
Curvularia					ND	< 13	█	█	█	100
Nigrospora					ND	< 13	█	█	█	100
Penicillium/Aspergillus types†					ND	< 13	█	█	█	100
Stachybotrys					ND	< 13	█	█	█	100
Torula					ND	< 13	█	█	█	100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█	█	█	100
Basidiospores††	█	█			5	270	█	█	█	104
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						320	Final MoldSCORE 104			

Location: 21006001-1-TM08

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█	█	█	100
Bipolaris/Drechslera group					ND	< 13	█	█	█	100
Chaetomium					ND	< 13	█	█	█	100
Cladosporium					ND	< 13	█	█	█	100
Curvularia					ND	< 13	█	█	█	100
Nigrospora					ND	< 13	█	█	█	100
Penicillium/Aspergillus types†					ND	< 13	█	█	█	100
Stachybotrys					ND	< 13	█	█	█	100
Torula					ND	< 13	█	█	█	100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█	█	█	100
Basidiospores††	█				1	53	█	█	█	101
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††	█				1	13	█	█	█	102
Total						67	Final MoldSCORE 102			

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu
 Re: 21006001-1

Date of Sampling: 06-07-2010
 Date of Receipt: 06-07-2010
 Date of Report: 06-08-2010

MoldSCORE™: Spore Trap Report

Location: 21006001-1-TM09

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium					1	53	102			
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			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes††					ND	< 13	100			
Total						107	Final MoldSCORE 102			

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

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

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

††Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores.

‡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.

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu
 Re: 21006001-1

Date of Sampling: 06-07-2010
 Date of Receipt: 06-07-2010
 Date of Report: 06-08-2010

MoldSCORE™: Spore Trap Report

Location: 21006001-1-TM03

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

Location: 21006001-1-TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				1	53	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█	█			5	270	█			106
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						320	Final MoldSCORE 106			

Client: Hygiene Technologies International, Inc.:
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C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21006001-1

Date of Sampling: 06-07-2010
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Date of Report: 06-08-2010

MoldSCORE™: Spore Trap Report

Location: 21006001-1-TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium	█				1	53	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	█				1	53	107			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores‡‡	█				1	53	108			
Basidiospores‡‡	█				2	110	100			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes‡‡	█				4	53	109			
Total						320	Final MoldSCORE 109			

Location: 21006001-1-TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium	█				1	53	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	█				1	53	105			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores‡‡	█				2	110	118			
Basidiospores‡‡	█	█	█		8	430	101			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes‡‡					ND	< 13	100			
Total						640	Final MoldSCORE 105			

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21006001-1

Date of Sampling: 06-07-2010
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Date of Report: 06-08-2010

MoldSCORE™: Spore Trap Report

Location: 21006001-1-TM07

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					5	270				106
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						320				Final MoldSCORE 106

Location: 21006001-1-TM08

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					1	53				101
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					1	13				102
Total						67				Final MoldSCORE 102

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu
 Re: 21006001-1

Date of Sampling: 06-07-2010
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 Date of Report: 06-08-2010

MoldSCORE™: Spore Trap Report

Location: 21006001-1-TM09

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				1	53	█			102
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
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						107	Final MoldSCORE 102			

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