



HYGIENETECH

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July 18, 2008

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

Document No. 20803001.3

Attention: David Gau

Regarding: Limited Indoor Air Quality Survey
6TH Floor

Dear Mr. Gau:

On various dates in March and April of 2008, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited indoor air quality survey on the 6TH Floor of the California State Board of Equalization building located at the above mentioned address. At the time of the survey, various samples were collected and direct-reading instruments were used to assess the general indoor air quality, with a clear emphasis on establishing fungal growth exposure potential data. 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

**450 N STREET – 6TH FLOOR
SACRAMENTO, CALIFORNIA**

PREPARED FOR:

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

PREPARED BY:

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

JULY 18, 2008



1.0 BACKGROUND

On various dates in March and April of 2008, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited indoor air quality survey on the 6TH Floor of the California State Board of Equalization Building located at 450 N Street in Sacramento, California. During the survey, a variety of samples were collected and direct-reading instruments were used to assess the general indoor air quality on the 6TH Floor of the subject building. Various air and surface samples were collected in order to assess fungal growth exposure potentials and to establish fungal growth assessment information on selected building material surfaces. In addition, air samples were collected throughout the floor for fibrous dust, microbial volatile organic compounds (MVOCs), and total dust analysis and direct-reading instruments were used to determine airborne volatile organic compounds (VOCs), carbon dioxide (CO₂), ozone (O₃), air temperature, and relative humidity.

2.0 OBSERVATIONS

The interior building materials of 6TH Floor included, but were not limited to, metal window frames; painted gypsum board and/or metal window sills; 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 in the general work areas; vinyl cove base; carpet flooring in the general work areas; and ceramic or vinyl tile flooring in the restrooms and break rooms.

The furnishings in the surveyed areas included desks, upholstered chairs, shelves, fabric covered cubicles, office supplies, computers, and other electronic office equipment. The furnishings did not appear to support fungal growth, nor did they appear to have been affected in any other manner by water intrusion. However, be advised that visible accumulation of debris, dust, and other particulates was observed on the reverse side of all sampled HVAC supply air registers.

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, MVOCs, and total dust determinations using SKC[®] brand Airchek[®] 52 sampling pumps and 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), when necessary, 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 O₃ and VOC levels, the results of which appear in Table 20803001-123 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.



3.0 SAMPLING AND ANALYSIS (CONTINUED)

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 Allergenco-D™ cassettes. All such samples were collected at various indoor locations and two samples were collected outdoors on the applicable survey date for comparison purposes. The resultant data, which are presented in spores per cubic meter of air (spores/M³), appear in Table 20803001-117.

3.2 Airborne Viable Fungi

Air samples for airborne viable fungi determinations were collected on malt extract agar (MEA) using a Gast brand high volume air-sampling pump equipped with an Aerotech 6™ Single Stage Bioaerosol Sampler. Two outdoor samples were also collected on the applicable survey date for comparison purposes. The media was incubated prior to enumeration of colony-forming units per agar plate and the resultant data, presented in colony forming units per cubic meter of air (CFU/ M³), can be found in Table 20803001-118.

3.3 Surface Fungal Growth Potentials

Surface samples were collected for fungal growth assessment using Scotch® brand cellophane tape segments affixed to microscope slides. Additionally, surface fungi samples were collected from various heating, ventilating, and air conditioning (HVAC) supply air register surfaces using Healthlink® Transporters™ (Rayon tipped swabs immersed in 0.5 ml modified Stuart's transport medium). These data are presented in Table 20803001-119.

3.4 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 20803001-120.

3.5 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 20803001-121.

3.6 Microbial Volatile Organic Compounds

Area samples for MVOCs were collected on solid sorbent tubes equipped with Sagelock fittings. The samples were analyzed by gas chromatography/ mass spectrometry, modified for MVOCs following the AIHA field guide. These data are presented in mg/M³ and appear in Table 20803001-122.



3.0 SAMPLING AND ANALYSIS (CONTINUED)

3.7 Airborne Volatile Organic Compounds

Direct-reading air measurements for VOCs were also recorded at various locations on the 6TH 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 parts per million (ppm).

3.8 Airborne Ozone

Direct-reading air measurements for O₃ were recorded at various locations using a Dräger colorimetric detector tube apparatus with the appropriate detector tubes. The data are presented in ppm.

3.9 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 along with HOBO[®] data logger. The data are presented in ppm.

3.10 Air Temperature and Relative Humidity

Air temperature and relative humidity data were recorded at a stationary location using a Telaire[®] 7001 Carbon Dioxide and Temperature Monitor along with the HOBO[®] data logger.

4.0 DISCUSSION

4.1 Airborne Total Fungi

The airborne total fungi data showed mostly common spore types outdoors such as ascospores, basidiospores, *Chaetomium*, colorless spores typical of *Penicillium* and *Aspergillus* species, *Nigrospora*, and/or smuts, with basidiospores predominating in both samples. Indoors, the ambient data showed low airborne concentrations of common fungal spores that included one or more of the following: *Alternaria*, ascospores, basidiospores, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, rusts, smuts, and/or other brown spores. 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 Viable Fungi

The viable fungi data recorded outdoors showed overall levels of 583 CFU/M³ and 354 CFU/M³ in the two samples collected, with *Cladosporium* predominating in both the samples. Indoors, low levels of common fungi were found, including *Cladosporium* and/or non-sporulating fungi. Again,



4.0 DISCUSSION (CONTINUED)

4.2 Airborne Viable Fungi (Continued)

the recorded data were unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

4.3 Surface Fungal Growth Potentials

The surface assessment data involving the samples collected from various cubicle partitions and other surfaces on March 18, 2008 throughout the 6TH Floor indicated evidence of either minimal growth of *Stachybotrys* or an above-background level of loose *Stachybotrys* spores at Cubicle 115 and Cubicle 88.01, respectively. Upon receipt and review of these data, additional surface samples from these two cubicles were collected on March 26, 2008. All subsequent surface data showed no evidence of fungal growth or above-background levels of loose fungal spores on the surfaces tested. Therefore, the minimal *Stachybotrys* growth and the loose *Stachybotrys* spores detected on March 18 were likely isolated incidents from unknown sources. The collective surface data recorded were considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to surface fungi are expected.

Additionally, the surface assessment data from the samples collected from the HVAC supply air registers throughout the floor indicated fungal growth involving *Acremonium*, *Alternaria*, *Cladosporium*, *Penicillium*, *Rhizopus*, and/or *Scopulariopsis* on all of the eight registers sampled, along with loose fungal spores of *Chaetomium* and/or non-biological dark amorphous debris. Be advised that visible accumulation of debris, dust, and other particulates was observed on the reverse side of all sampled HVAC supply air registers, and that such conditions are indicative of an environment that may promote fungal growth.

4.4 Airborne Fibrous Dust

The data recorded in the surveyed areas indicated that airborne fibrous dusts were either not detected above the laboratory detection limit of 0.004 f/cc or were detected at levels ranging from 0.004 to 0.006 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.

4.5 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.



4.0 DISCUSSION (CONTINUED)

4.5 Airborne Total Dust

The data recorded in the surveyed areas showed that airborne total dust was not detected at or above the laboratory analytical detection limits of 0.13 and 0.14 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.

4.6 Airborne Microbial Volatile Organic Compounds

Microbial Volatile Organic Compounds (MVOCs) are composed of low molecular weight alcohols, aldehydes, amines, ketones, terpenes, aromatic and chlorinated hydrocarbons, and sulfur-based compounds that are known to be byproducts of microbial metabolism. MVOCs have a very low odor threshold, thus, making them easily detectable by smell. They often have strong odors and are responsible for the smells generally associated with fungal growth.

The airborne MVOC data indicated the presence of 1-butanol at levels ranging from 319 ng/m³ to 323 ng/m³, 2-hexanone at levels ranging from 49 ng/m³ to 78 ng/m³, and 2-heptanone at levels ranging from 67 ng/m³ to 195 ng/m³. Microbial growth related VOCs would not be expected to be present indoors without additional MVOCs such as ethanol, 1-octen-3-ol, 2-octen-1-ol, benzyl cyanide, 2-methyl-isoborneol, geosmin (1-10-dimethyl-*trans*-9-decalol), and/or terpenes also being present. The fact that 1-butanol, 2-hexanone, and 2-heptanone were detected at low levels without the other above mentioned MVOCs would indicate that their presence on the 6TH Floor was most likely not fungal growth related and attributable to personal products such as perfumes and other personal cosmetic products. All such data are well below the applicable Cal-OSHA 8-hour TWA PELs as defined in T8, CCR § 5155.

4.7 Airborne Volatile Organic Compounds

With the use of a direct-reading photoionization detector, VOCs were either not detected at or above the instrument detection limit of 0.1 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.



4.0 DISCUSSION (CONTINUED)

4.8 Airborne Ozone

O₃ was not detected at or above the Dräger instrument detection limits of 0.05 ppm.

4.9 Airborne Carbon Dioxide

The direct-reading results indicated that CO₂ was detected at levels ranging from 532 to 767 ppm on the 6TH 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 occupied 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 unhealthful 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.

4.10 Air Temperature and Relative Humidity

Air temperatures ranged between 73.84 and 75.92 degrees Fahrenheit (°F) on the survey date. 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). The air temperatures recorded in the surveyed areas were within the comfort range recommended for the summer months.

Relative humidity data were recorded indoors at levels ranging from 24.6 to 31.7 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 and viable fungi data recorded in the surveyed areas showed airborne fungi levels that were generally 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 surface assessment data involving the samples collected from various cubicle partitions and other surfaces on March 18, 2008 throughout the 6TH Floor indicated evidence of either minimal growth of *Stachybotrys* or an above-background level of loose *Stachybotrys* spores at Cubicle 115 and Cubicle 88.01, respectively. Upon receipt and review of these data, additional surface samples from these two cubicles were collected on March 26, 2008. All subsequent surface data



5.0 CONCLUSIONS (CONTINUED)

showed no evidence of fungal growth or above-background levels of loose fungal spores on the surfaces tested. Therefore, the minimal *Stachybotrys* growth and the loose *Stachybotrys* spores detected on March 18 were likely isolated incidents from unknown sources. The collective surface data recorded were considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to surface fungi are expected.

Additionally, the surface assessment data from the samples collected from the HVAC supply air registers throughout the floor indicated fungal growth involving *Acremonium*, *Alternaria*, *Cladosporium*, *Penicillium*, *Rhizopus*, and/or *Scopulariopsis* on all of the eight registers sampled, along with loose fungal spores of *Chaetomium* and/or non-biological dark amorphous debris. Be advised that visible accumulation of debris, dust, and other particulates was observed on the reverse side of all sampled HVAC supply air registers, and that such conditions are indicative of an environment that may promote fungal growth.

- 5.3 The airborne total and fibrous dust, VOC, and O₃ 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.
- 5.4 The airborne MVOC data indicated the presence of 1-butanol at levels ranging from 219 ng/m³ to 323 ng/m³, 2-Hexanone at levels ranging from 49 ng/m³ to 78 ng/m³, and 2-Heptanone at levels ranging from 67 ng/m³ to 195 ng/m³. Microbial growth related VOCs would not be expected to be present indoors without additional MVOCs such as ethanol, 1-octen-3-ol, 2-octen-1-ol, benzyl cyanide, 2-methyl-isoborneol, geosmin (1-10-dimethyl-*trans*-9-decalol), and/or terpenes also being present. The fact that 1-butanol, 2-hexanone, and 2-heptanone were detected at low levels without the other above mentioned MVOCs would indicate that their presence on the 6TH Floor was most likely not fungal growth related and attributable to personal products such as perfumes and other personal cosmetic products. All such data are well below the applicable Cal-OSHA 8-hour TWA PELs as defined in T8, CCR § 5155.
- 5.5 Air temperatures ranged between 73.84 and 75.92 degrees Fahrenheit (°F) on the survey date. 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). The air temperatures recorded in the surveyed areas were within the comfort range recommended for the summer months. Relative humidity data were recorded indoors at levels ranging from 24.6 to 31.7 percent, levels that were well within the 20 to 60 percent relative humidity level range recommended by ASHRAE for occupant comfort. Note that HygieneTech recommends that the humidity in buildings not exceed 50 percent in order to limit the potential fungal growth
- 5.6 Be advised that the data provided in this report only represent fungal growth and 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.

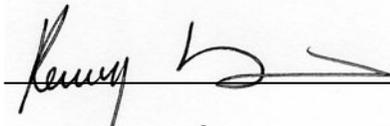


6.0 RECOMMENDATIONS

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 6TH Floor, additional assessment evaluations may be required as more information is known regarding the history of water intrusion episodes in discrete building areas.

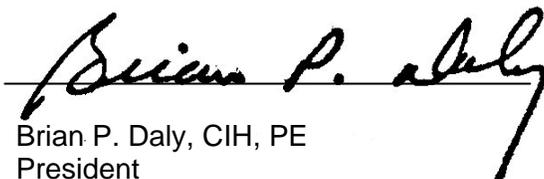
- 6.1 If not yet established, an accurate record of all air monitoring results should be maintained in accordance with Cal-OSHA regulation found in T8, CCR § 3204. All affected employees should be informed that the *exposure potential* data in this report exist and that those persons, or their representatives, have a right to access relevant exposure data and medical records.
- 6.2 Routine cleaning of the HVAC supply air registers on the 6TH Floor should be performed to preclude the build-up of dust and debris, which may potentially contribute to fungal growth on those surfaces.
- 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 6TH 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: July 18, 2008



Brian P. Daly, CIH, PE
President

Date: July 18, 2008

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20803001-117
AIRBORNE TOTAL FUNGI RESULTS
6TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 17 AND 20, 2008

Page 1

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

SAMPLE NUMBER	20803001-TM9CCJL	20803001-TM10CCJL	20803001-TM11CCJL	20803001-TM12CCJL
SAMPLING LOCATION/ACTIVITIES	Area between Columns N22 and K22; Cubicle 89; within ceiling plenum/Sampling activities only	Column K22 area; Cubicle 37; within ceiling plenum/ Sampling activities only	Column K22 area; Cubicle 53; within ceiling plenum/ Sampling activities only	Column K18 area; Cubicle 75; within ceiling plenum/ Sampling activities only
DATE	03-17-08	03-17-08	03-17-08	03-17-08
START/STOP	15:03:00/15:08:00	15:12:00/15:17:00	15:23:00/15:28:00	15:31:00/15:36:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Aureobasidium				
Basidiospores	53			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	160	53		
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown			13	13
Penicillium/Aspergillus types	107	107		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13			13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	40	<13	<13	<13
Background particulates*	3+	2+	2+	3+
TOTAL **	333	160	13	26

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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TABLE 20803001-117
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6TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 17 AND 20, 2008

Page 2

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

SAMPLE NUMBER	20803001-TM13CCJL	20803001-TM14CCJL	20803001-TM15CCJL	20803001-TM16CCJL
SAMPLING LOCATION/ACTIVITIES	Area between Column N18 and K18; Cubicle 5.01; within ceiling plenum/Sampling activities only	Column N19 area; Cubicle 131; within ceiling plenum/Sampling activities only	Column N20 area; Cubicle 95.01; within ceiling plenum/Sampling activities only	Room 602; Conference room; within ceiling plenum/Sampling activities only
DATE	03-17-08	03-17-08	03-17-08	03-17-08
START/STOP	15:43:00/15:48:00	15:52:00/15:57:00	16:00:00/16:05:00	16:10:00/16:15:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrimum				
Ascospores		160		
Aureobasidium				
Basidiospores		53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	53		213
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown		13		27
Penicillium/Aspergillus types	107	107	53	
Pithomyces				
Rusts		13		13
Smuts (Periconia, Myxomycetes)	13		13	13
Stachybotrys				
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	<13	13	<13	27
Background particulates*	3+	3+	3+	4+
TOTAL**	173	399	66	266

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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TABLE 20803001-117
AIRBORNE TOTAL FUNGI RESULTS
6TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 17 AND 20, 2008

Page 3

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

SAMPLE NUMBER	20803001-TM43OUTJL	20803001-TM44JL	20803001-TM45JL	20803001-TM46JL
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	Column N20 area; about four feet south of Cubicle 112; approximately five feet above floor/Normal office activities	Column N19 area; about two feet west of Cubicle 98; approximately five feet above floor/Normal office activities	Column N19 area; about two feet north of Cubicle 129; approximately five feet above floor/Normal office activities
DATE	03-20-08	03-20-08	03-20-08	03-20-08
START/STOP	10:09:00/10:14:00	10:25:00/10:30:00	10:31:00/10:36:00	10:38:00/10:43:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores	533			
Aureobasidium				
Basidiospores	240	13		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	213			
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora	13			
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	40	27		
Stachybotrys				
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	13	<13	<13	<13
Background particulates*	2+	2+	2+	2+
TOTAL**	1,039	40	<13	<13

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

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TABLE 20803001-117
AIRBORNE TOTAL FUNGI RESULTS
6TH FLOOR
SACRAMENTO, CALIFORNIA
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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	20803001-TM47JL	20803001-TM48JL	20803001-TM49JL	20803001-TM50JL
SAMPLING LOCATION/ACTIVITIES	Column N20 area; about two feet south of Cubicle 134; approximately five feet above floor/Normal office activities	Column N21 area; Cubicle 119; about center; approximately five feet above floor/Normal office activities	Column N21 area; about four feet south of Cubicle 116; approximately five feet above floor/Normal office activities	Area between Column N22 and K22; about two feet east of Cubicle 87.01; approximately five feet above floor/Normal office activities
DATE	03-20-08	03-20-08	03-20-08	03-20-08
START/STOP	10:48:00/10:53:00	10:55:00/11:00:00	11:01:00/11:06:00	11:08:00/11:13:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	
Arthrinium				
Ascospores				
Aureobasidium				
Basidiospores				53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown	27			13
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	<13	<13	13	<13
Background particulates*	2+	2+	2+	1+
TOTAL**	27	<13	13	66

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+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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CLIENT: California State Board of Equalization
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TABLE 20803001-117
AIRBORNE TOTAL FUNGI RESULTS
6TH FLOOR
SACRAMENTO, CALIFORNIA
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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	20803001-TM51JL	20803001-TM52JL	20803001-TM53JL	20803001-TM54JL
SAMPLING LOCATION/ACTIVITIES	Room 602; Conference room; about center; approximately five feet above floor/Normal office activities	Column K22 area; about two feet north of Cubicle 58; approximately five feet above floor/Normal office activities	Column K22 area; about two feet west of Cubicle 61; approximately five feet above floor/Normal office activities	Column K20 area; about two feet south of Cubicle 67; approximately five feet above floor/Normal office activities
DATE	03-20-08	03-20-08	03-20-08	03-20-08
START/STOP	11:12:00/11:17:00	11:19:00/11:24:00	11:25:00/11:30:00	11:31:00/11:36:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Aureobasidium				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown			13	
Penicillium/Aspergillus types	53			107
Pithomyces				
Rusts		13		27
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	<13	13	13	40
Background particulates*	1+	2+	2+	2+
TOTAL**	53	13	13	134

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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CLIENT: California State Board of Equalization
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TABLE 20803001-117
AIRBORNE TOTAL FUNGI RESULTS
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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	20803001-TM55JL	20803001-TM56JL	20803001-TM57JL	20803001-TM58JL
SAMPLING LOCATION/ACTIVITIES	Column K20 area; Cubicle 22; about center; approximately five feet above floor/Normal office activities	Column K18 area; about two feet west of Cubicle 13; approximately five feet above floor/Normal office activities	Column K19 area; Cubicle 78; about center; approximately five feet above floor/Normal office activities	Area between Column N18 and K18; about two feet west of Cubicle 005; approximately five feet above floor/Normal office activities
DATE	03-20-08	03-20-08	03-20-08	03-20-08
START/STOP	11:36:00/11:41:00	11:42:00/11:47:00	11:48:00/11:53:00	11:54:00/11:59:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Aureobasidium				
Basidiospores			13	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium			13	
Cladosporium				
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	<13	<13	13	<13
Background particulates*	1+	1+	1+	2+
TOTAL**	<13	<13	26	<13

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

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CLIENT: California State Board of Equalization
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TABLE 20803001-117
AIRBORNE TOTAL FUNGI RESULTS
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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	20803001-TM59JL	20803001-TM60OUTJL		
SAMPLING LOCATION/ACTIVITIES	Column N18 area; about two feet north of Cubicle 104; approximately five feet above floor/Normal office activities	Outdoors; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	This column intentionally left blank	This column intentionally left blank
DATE	03-20-08	03-20-08		
START/STOP	11:58:00/12:03:00	12:23:00/12:28:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Arthrinium				
Ascospores		27		
Aureobasidium				
Basidiospores		133		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium		53		
Cladosporium		267		
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types		213		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13			
Stachybotrys				
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	<13	40		
Background particulates*	2+	2+		
TOTAL **	13	693		

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+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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CLIENT: California State Board of Equalization
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TABLE 20803001-118
AIRBORNE VIABLE FUNGI RESULTS
6TH FLOOR
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Results reported in colony forming units per cubic meter of air (CFU/M³)

SAMPLE NUMBER	20803001-VM011OUTJL	20803001-VM12JL	20803001-VM13JL	20803001-VM14JL
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	Column N20 area; about four feet south of Cubicle 112; approximately five feet above floor/Normal office activities	Column N19 area; about two feet north of Cubicle 129; approximately five feet above floor/Normal office activities	Column N21 area; Cubicle 119; about center; approximately five feet above floor/Normal office activities
START/STOP	10:12:00/10:14:00	10:27:00/10:29:00	10:40:00/10:42:00	10:56:00/10:58:00
SAMPLE TIME	2 minutes	2 minutes	2 minutes	2 minutes
Acremonium				
Alternaria				
Aspergillus flavus				
Aspergillus glaucus	35			
Aspergillus niger	18			
Aspergillus other				
Aspergillus versicolor	35			
Aureobasidium				
Botrytis				
Chaetomium				
Cladosporium	212			
Curvularia				
Epicoccum				
Nigrospora				
Memnoniella				
Myrothecium				
Non-sporulating fungi	18	18		
Others				
Paecilomyces				
Penicillium	71			
Stachybotrys				
Torula herbarum				
Trichoderma				
Ulocladium				
Yeasts	194			
TOTAL	583	18	<18	<18

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6TH FLOOR
SACRAMENTO, CALIFORNIA
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Results reported in colony forming units per cubic meter of air (CFU/M³)

SAMPLE NUMBER	20803001-VM15JL	20803001-VM16JL	20803001-VM17JL	20803001-VM18JL
SAMPLING LOCATION/ACTIVITIES	Area between Column N22 and K22; about two feet east of Cubicle 87.01; approximately five feet above floor/Normal office activities	Column K22 area; about two feet north of Cubicle 58; approximately five feet above floor/Normal office activities	Column K20 area; about two feet south of cubicle 67; approximately five feet above floor/Normal office activities	Column K18 area; about two feet west of Cubicle 13; approximately five feet above floor/Normal office activities
START/STOP	11:09:00/11:11:00	11:22:00/11:24:00	11:33:00/11:35:00	11:43:00/11:45:00
SAMPLE TIME	2 minutes	2 minutes	2 minutes	2 minutes
Acremonium				
Alternaria				
Aspergillus flavus				
Aspergillus niger				
Aspergillus other				
Aspergillus versicolor				
Aureobasidium				
Botrytis				
Chaetomium				
Cladosporium	18			
Curvularia				
Epicoccum				
Fusarium				
Memnoniella				
Myrothecium				
Non-sporulating fungi			18	
Others				
Paecilomyces				
Penicillium				
Stachybotrys				
Torula herbarum				
Trichoderma				
Ulocladium				
Yeasts				
TOTAL	18	<18	18	<18

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AIRBORNE VIABLE FUNGI RESULTS
6TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 20, 2008

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Results reported in colony forming units per cubic meter of air (CFU/M³)

SAMPLE NUMBER	20803001-VM19JL	20803001-VM20OUTJL		
SAMPLING LOCATION/ACTIVITIES	Area between Column N18 and K18 area; about two feet west of Cubicle 005; approximately five feet above floor/Normal office activities	Outdoors; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	This column intentionally left blank	This column intentionally left blank
START/STOP	11:55:00/11:57:00	12:25:00/12:27:00		
SAMPLE TIME	2 minutes	2 minutes		
Acremonium				
Alternaria				
Aspergillus flavus				
Aspergillus niger				
Aspergillus other				
Aspergillus versicolor				
Aureobasidium				
Botrytis				
Chaetomium				
Cladosporium		283		
Curvularia				
Epicoccum				
Fusarium				
Memnoniella				
Mucor				
Myrothecium				
Non-sporulating fungi		35		
Paecilomyces				
Penicillium		18		
Rhizopus		18		
Stachybotrys				
Torula herbarum				
Trichoderma				
Ulocladium				
Yeasts				
TOTAL	<18	354		

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TABLE 20803001-119
SURFACE FUNGAL GROWTH POTENTIALS
6TH FLOOR
SACRAMENTO, CALIFORNIA
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DATE	SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
03-17-08	20803001-S09JL	Area between Column N22 and K22; Cubicle 89; ceiling; from reverse side of HVAC supply air register	Heavy	Very few	2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	Many dark amorphous particles detected, not biological in appearance	Fungal growth
03-17-08	20803001-S10JL	Column K22 area; Cubicle 37; ceiling; from reverse side of HVAC supply air register	Heavy	Few	2+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 1+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	Many dark amorphous particles detected, not biological in appearance	Fungal growth
03-17-08	20803001-S11JL	Column K22 area; Cubicle 53; ceiling; from reverse side of HVAC supply air register	Heavy	Very few	2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) <1+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	Many dark amorphous particles detected, not biological in appearance	Fungal growth
03-17-08	20803001-S12JL	Column K18 area; Cubicle 75; ceiling; from reverse side of HVAC supply air register	Heavy	Few	2+ <i>Scopulariopsis</i> species (spores, hyphae, conidiophores) 2+ <i>Penicillium</i> species (spores, hyphae, conidiophores) 2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	Many dark amorphous particles detected, not biological in appearance	Fungal growth
03-17-08	20803001-S13JL	Area between Column N18 and K18; Cubicle 5.01; ceiling; from reverse side of HVAC supply air register	Heavy	Few	3+ <i>Rhizopus</i> species (spores, hyphae, sporangiophores) 1+ <i>Acremonium</i> species (spores, hyphae, conidiophores)	Many dark amorphous particles detected, not biological in appearance	Fungal growth
03-17-08	20803001-S14JL	Column N19 area; Cubicle 131; ceiling; from reverse side of HVAC supply air register	Heavy	Very few	4+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	Very few <i>Chaetomium</i>	Fungal growth

*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

**Quantities of fungi are graded (from least to greatest) as <1+ to 4+ or as none, trace, few, numerous, and massive.

¹ Single spore observed.

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TABLE 20803001-119
SURFACE FUNGAL GROWTH POTENTIALS
6TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 17, 18, AND 26, 2008

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DATE	SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
03-17-08	20803001-S15JL	Column N20 area; Cubicle 95.01; ceiling; from reverse side of HVAC supply air register	Moderate	Very few	4+ <i>Rhizopus</i> species (spores, hyphae, sporangiophores)	None	Fungal growth
03-17-08	20803001-S16JL	Room 602; Conference room; ceiling; from reverse side of HVAC supply air register	Heavy	Very few	2+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 1+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	Many dark amorphous particles detected, not biological in appearance	Fungal growth
03-18-08	20803001-TL01JL	Column N21 area; Cubicle 115; southern cubicle partition; about center; from top horizontal surface	Light	Very few	None	Very few <i>Stachybotrys</i> spores detected	Possible settling from fungal growth
03-18-08	20803001-TL02JL	Column N21 area; Cubicle 121; northern cubicle partition; about center; from top horizontal surface	Light	Very few	None	None	Background
03-18-08	20803001-TL03JL	Column N21 area; Cubicle 119; western cubicle partition; about center; from top horizontal surface	Light	Very few	None	None	Background
03-18-08	20803001-TL04JL	Column N20 area; Cubicle 124; northern cubicle partition; about center; from top horizontal surface	Light	None	None	None	Background
03-18-08	20803001-TL05JL	Column N19 area; Cubicle 131; southern cubicle partition; about center; from top horizontal surface	Light	Very few	None	None	Background
03-18-08	20803001-TL06JL	Column N19 area; Cubicle 108; eastern cubicle partition; about center; from top horizontal surface	Light	Very few	None	None	Background
03-18-08	20803001-TL07JL	Column N19 area; Cubicle 96; western cubicle partition; about center; from top horizontal surface	Scant	None	None	None	Background
03-18-08	20803001-TL08JL	Column N18 area; Cubicle 101; eastern cubicle partition; about center; from top horizontal surface	Light	None	None	None	Background
03-18-08	20803001-TL09JL	Column N18 area; Cubicle 002; southern cubicle partition; about center; from top horizontal surface	Light	Very few	None	None	Background

*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

**Quantities of fungi are graded (from least to greatest) as <1+ to 4+ or as none, trace, few, numerous, and massive.

¹ Single spore observed.

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TABLE 20803001-119
SURFACE FUNGAL GROWTH POTENTIALS
6TH FLOOR
SACRAMENTO, CALIFORNIA
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DATE	SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
03-18-08	20803001-TL10JL	Area between Column N18 and K18; Cubicle 5.01; southern cubicle partition; about center; from top horizontal surface	Scant	None	None	None	Background
03-18-08	20803001-TL11JL	Column K18 area; Cubicle 14; southern cubicle partition; about center; from top horizontal surface	Light	Very few	None	None	Background
03-18-08	20803001-TL12JL	Cubicle 46; western cubicle partition; about center; from top horizontal surface	Light	None	None	None	Background
03-18-08	20803001-TL13JL	Column K19 area; Cubicle 77; eastern cubicle partition; about center; from top horizontal surface	Light	None	None	None	Background
03-18-08	20803001-TL14JL	Column K20 area; Cubicle 80.01; western cubicle partition about center; from top horizontal surface	Light	Very few	None	None	Background
03-18-08	20803001-TL15JL	Column K20 area; Cubicle 22; western cubicle partition; about center; from top horizontal surface	Light	Very few	None	None	Background
03-18-08	20803001-TL16JL	Column K21 area; Cubicle 56; southern cubicle partition; about center; from top horizontal surface	Light	Very few	None	None	Background
03-18-08	20803001-TL17JL	Column K22 area; Cubicle 41; eastern cubicle partition; about center; from top horizontal surface	Light	Very few	None	None	Background
03-18-08	20803001-TL18JL	Column K22 area; Cubicle 62; Cubicle partition; about center; from top horizontal surface	Light	Very few	None	None	Background
03-18-08	20803001-TL19JL	Column K22 area; Cubicle 86; Northern cubicle partition; about center; from top horizontal surface	Light	None	None	None	Background
03-18-08	20803001-TL20JL	Area between Column N22 and K22; Cubicle 88.01; northern cubicle partition; about center; from top horizontal surface	Light	Very few	<1+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores)	None	Possible settling from fungal growth
03-26-08	20803001-TL61JL	Area between Column N22 and K22; Cubicle 88.01; eastern cubicle partition; about center; from top horizontal surface	Very light dander Very light fibers Very light particulates	Trace	None	None	Background

*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

**Quantities of fungi are graded (from least to greatest) as <1+ to 4+ or as none, trace, few, numerous, and massive.

¹ Single spore observed.

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TABLE 20803001-119
SURFACE FUNGAL GROWTH POTENTIALS
6TH FLOOR
SACRAMENTO, CALIFORNIA
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DATE	SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
03-26-08	20803001-TL62JL	Area between Column N22 and K22; Cubicle 88.01; northern cubicle partition; about center; from top horizontal surface	Light dander Light particulates Very light fibers	Trace	None	Trace <i>Cladosporium</i>	Background
03-26-08	20803001-TL63JL	Area between Column N22 and K22; Cubicle 88.01; southern cubicle partition; about center; from top horizontal surface	Very light dander Very light fibers Very light particulates	None	None	None	Background
03-26-08	20803001-TL64JL	Area between Column N22 and K22; Cubicle 88.01; Dell monitor; about center; from top horizontal surface	Moderate dander Light fibers Light particulates	Trace	None	Trace <i>Alternaria</i> ¹ Trace <i>Epicoccum</i> ¹	Background
03-26-08	20803001-TL65JL	Area between Column N22 and K22; Cubicle 88.01; office telephone; about center; from top horizontal surface	Moderate dander Moderate fibers Light particulates Very light wood fibers	Trace	Trace unidentified hyphal fragments	Trace <i>Alternaria</i> Trace <i>Bipolaris/Drechslera</i> group ¹ Trace <i>Cladosporium</i> Trace <i>Curvularia</i> ¹ Trace <i>Oidium</i> ¹	Background
03-26-08	20803001-TL66JL	Area between Column N22 and K22; Cubicle 88.01; desk; western portion; about center; from top horizontal surface	Light dander Light fibers Very light particulates	Trace	None	Trace <i>Cladosporium</i>	Background
03-26-08	20803001-TL67JL	Area between Column N22 and K22; Cubicle 88.01; Dell keyboard; about center; from top horizontal surface	Light dander Very light particulates Light fibers	Trace	None	Trace <i>Epicoccum</i> ¹	Background

*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

**Quantities of fungi are graded (from least to greatest) as <1+ to 4+ or as none, trace, few, numerous, and massive.

¹ Single spore observed.

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SURFACE FUNGAL GROWTH POTENTIALS
6TH FLOOR
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DATE	SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
03-26-08	20803001-TL68JL	Area between Column N22 and K22; Cubicle 88.01; paper weight; about center; from top spherical surface	Moderate dander Light fibers Light particulates Very light insect parts	Trace	Trace unidentified hyphal fragments	Trace <i>Alternaria</i> Trace <i>Cladosporium</i> Trace <i>Nigrospora</i> ¹	Background
03-26-08	20803001-TL69JL	Column N21 area; Cubicle 115; western cubicle partition; about center; from top horizontal surface	Very light dander Very light fibers Very light particulates	None	None	None	Background
03-26-08	20803001-TL70JL	Column N21 area; Cubicle 115; desk; northern portion; about center; from top horizontal surface	Moderate dander Light fibers Light particulates	Trace	Trace unidentified hyphal fragments	Trace unidentified mitosporic fungi	Background
03-26-08	20803001-TL71JL	Column N21 area; Cubicle 115; southern cubicle partition; about center; from top horizontal surface	Very light dander Very light fibers Very light particulates	Trace	None	None	Background
03-26-08	20803001-TL72JL	Column N21 area; Cubicle 115; Dell Computer; about center; from top horizontal surface	Light dander Very light fibers Very light particulates	Trace	None	Trace <i>Alternaria</i> ¹	Background
03-26-08	20803001-TL73JL	Column N21 area; Cubicle 115; Northern cabinet; about center; from top horizontal surface	Moderate dander Moderate particulates Very light fibers	Trace	None	Trace <i>Cladosporium</i> Trace <i>Penicillium/Aspergillus</i> types	Background
03-26-08	20803001-TL74JL	Column N21 area; Cubicle 115; power supply; about center; from top horizontal	Moderate Fibers Light dander Very light particulates	Trace	None	None	Background

*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

**Quantities of fungi are graded (from least to greatest) as <1+ to 4+ or as none, trace, few, numerous, and massive.

¹ Single spore observed.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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TABLE 20803001-120
AIRBORNE FIBERS RESULTS
6TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 18, 2008

Page 1

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (f/cc)	PEL (f/cc)
Area Sample	Column N21 area; Cubicle 116; about center; approximately six feet above floor/Normal office activities	N/A	20803001- F09JL	8:45/ 16:45	480 minutes	Fibers	0.006	0.1
Area Sample	Column N19 area; Cubicle 110; about center; approximately six feet above floor /Normal office activities	N/A	20803001- F10JL	8:46/ 16:46	480 minutes	Fibers	0.005	0.1
Area Sample	Column N18 area; about one foot south of Cubicle 103; approximately six feet above floor/Normal office activities	N/A	20803001- F11JL	8:47/ 16:47	480 minutes	Fibers	0.004	0.1
Area Sample	Column K18 area; about two feet north of Cubicle 46; approximately six feet above floor/Normal office activities	N/A	20803001- F12JL	8:50/ 16:50	480 minutes	Fibers	0.004	0.1
Area Sample	Column K20 area; about two feet east of Cubicle 67; approximately six feet above floor/Normal office activities	N/A	20803001- F13JL	8:51/ 16:51	480 minutes	Fibers	0.005	0.1
Area Sample	Column K22 area; about four feet west of Cubicle 61; approximately five feet above floor/Normal office activities above floor	N/A	20803001- F14JL	8:52/ 16:52	480 minutes	Fibers	<0.004	0.1
Area Sample	Area between Column N22 and K22; Cubicle 88.01; about center; approximately five feet above floor/Normal office activities	N/A	20803001- F15JL	8:54/ 16:54	480 minutes	Fibers	0.004	0.1
Blank	N/A	N/A	20803001- F16BLANKJL	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

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20803001-121
AIRBORNE TOTAL DUST RESULTS
6TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 21, 2008

Page 1

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	STAR T/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/m ³)	PEL (mg/m ³)
Area Sample	Column N22 area; about 10 feet south of room 605; approximately six feet above floor/Normal office activities	N/A	20803001- TD01JL	8:14/ 14:34	380 minutes	Total dust	<0.13	10
Area Sample	Area between Column N22 and K22; Cubicle 088; about center; approximately six feet above floor/Normal office activities	N/A	20803001- TD02JL	8:17/ 14:23	366 minutes	Total dust	<0.14	10
Area Sample	Column K21 area; between Cubicle 62 and 84.01; about center; approximately six feet above floor/Normal office activities	N/A	20803001- TD03JL	8:19/ 14:37	378 minutes	Total dust	<0.13	10
Area Sample	Column K19 area; between Cubicle 71 and 77; about center; approximately six feet above floor/Normal office activities	N/A	20803001- TD04JL	8:20/ 14:38	378 minutes	Total dust	<0.13	10
Area Sample	Column K18 area; about five feet west of Cubicle 006; approximately six feet above floor/Normal office activities	N/A	20803001- TD05JL	8:22/ 14:39	377 minutes	Total dust	<0.13	10
Area Sample	Column N18 area; about five feet west of Cubicle 2.01; approximately six feet above floor/Normal office activities	N/A	20803001- TD06JL	8:23/ 14:40	377 minutes	Total dust	<0.13	10
Area Sample	Column N19 area; about two feet south of Cubicle 132; approximately six feet above floor/Normal office activities	N/A	20803001- TD07JL	8:24/ 14:41	377 minutes	Total dust	<0.13	10
Blank	N/A	N/A	20803001- TD10BLANKJL	N/A	N/A	Total dust	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
mg/M³: Milligrams per cubic meter

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

APPENDIX A



TABLE 20803001-122
MICROBIAL VOLATILE ORGANIC COMPOUNDS
6TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 26, 2008

Page 1

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/m ³)	PEL (mg/m ³)
Area Sample	Column N20 area; Cubicle 113; about center; approximately six feet above floor/Normal office activities	N/A	20803001- M25JL	15:07/ 17:10	123 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol (309)	323 x10 ⁻⁶	300
						3-Methyl-2-butanol	nd	N/A
						2-Pentanol	nd	N/A
						3-Methyl-2-butanol	nd	N/A
						Methyl disulfide	nd	N/A
						Ethyl isobutyrate	nd	N/A
						2-Hexanone	53 x10 ⁻⁶	410
						2-Heptanone	195 x10 ⁻⁶	468
						5-Methyl-3-heptanone	nd	N/A
						1-Octen-3-ol	nd	N/A
						3-Octanone	nd	N/A
						3-Octanol	nd	N/A
						2-Pentylfuran	nd	N/A
						2-Octen-1-ol	nd	N/A
						2-Methoxy-3-1(methylethyl) pyrazine	nd	N/A
						2-Nonanone	nd	N/A
						Fenchone	nd	N/A
						2-Methyl-isoborneol	nd	N/A
a-Terpineol	nd	N/A						
Borneol	nd	N/A						
Geosmin	nd	N/A						
Thujopsene	nd	N/A						

LEGEND

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

<: Less than
mg/M³: Milligrams per cubic meter
nd: Not detected

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

APPENDIX A



TABLE 20803001-122
MICROBIAL VOLATILE ORGANIC COMPOUNDS
6TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 26, 2008

Page 2

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/m ³)	PEL (mg/m ³)
Area Sample	Area between Column N18 and K18; Cubicle 004; about center; approximately six feet above floor/Normal office activities	N/A	20803001- M26JL	15:12/ 17:13	121 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	219 x10 ⁻⁶	300
						3-Methyl-2-butanol	nd	N/A
						2-Pentanol	nd	N/A
						3-Methyl-2-butanol	nd	N/A
						Methyl disulfide	nd	N/A
						Ethyl isobutyrate	nd	N/A
						2-Hexanone	49 x10 ⁻⁶	410
						2-Heptanone	162 x10 ⁻⁶	468
						5-Methyl-3-heptanone	nd	N/A
						1-Octen-3-ol	nd	N/A
						3-Octanone	nd	N/A
						3-Octanol	nd	N/A
						2-Pentylfuran	nd	N/A
						2-Octen-1-ol	nd	N/A
						2-Methoxy-3-1(methylethyl) pyrazine	nd	N/A
						2-Nonanone	nd	N/A
						Fenchone	nd	N/A
						2-Methyl-isoborneol	nd	N/A
a-Terpineol	nd	N/A						
Borneol	nd	N/A						
Geosmin	nd	N/A						
Thujopsene	nd	N/A						

LEGEND

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

<: Less than
mg/M³: Milligrams per cubic meter
nd: Not detected

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

APPENDIX A



TABLE 20803001-122
MICROBIAL VOLATILE ORGANIC COMPOUNDS
6TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 26, 2008

Page 3

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/m ³)	PEL (mg/m ³)
Area Sample	About eight feet south of Column K20 area; approximately six feet above floor/Normal office activities	N/A	20803001- M27JL	15:15/ 17:15	120 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	234 x10 ⁻⁶	300
						3-Methyl-2-butanol	nd	N/A
						2-Pentanol	nd	N/A
						3-Methyl-2-butanol	nd	N/A
						Methyl disulfide	nd	N/A
						Ethyl isobutyrate	nd	N/A
						2-Hexanone	78 x10 ⁻⁶	410
						2-Heptanone	67 x10 ⁻⁶	468
						5-Methyl-3-heptanone	nd	N/A
						1-Octen-3-ol	nd	N/A
						3-Octanone	nd	N/A
						3-Octanol	nd	N/A
						2-Pentylfuran	nd	N/A
						2-Octen-1-ol	nd	N/A
						2-Methoxy-3-1(methylethyl) pyrazine	nd	N/A
						2-Nonanone	nd	N/A
						Fenchone	nd	N/A
						2-Methyl-isoborneol	nd	N/A
a-Terpineol	nd	N/A						
Borneol	nd	N/A						
Geosmin	nd	N/A						
Thujopsene	Nd	N/A						

LEGEND

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

<: Less than
mg/M³: Milligrams per cubic meter
nd: Not detected

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

APPENDIX A



TABLE 20803001-122
MICROBIAL VOLATILE ORGANIC COMPOUNDS
6TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 26, 2008

Page 4

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/m ³)	PEL (mg/m ³)
Area Sample	Area between Column N22 and K22; Cubicle 87.01; about center; approximately six feet above floor/Normal office activities	N/A	20803001- M28JL	15:17 17:17	120 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	221 x10 ⁻⁶	300
						3-Methyl-2-butanol	nd	N/A
						2-Pentanol	nd	N/A
						3-Methyl-2-butanol	nd	N/A
						Methyl disulfide	nd	N/A
						Ethyl isobutyrate	nd	N/A
						2-Hexanone	72 x10 ⁻⁶	410
						2-Heptanone	153 x10 ⁻⁶	468
						5-Methyl-3-heptanone	nd	N/A
						1-Octen-3-ol	nd	N/A
						3-Octanone	nd	N/A
						3-Octanol	nd	N/A
						2-Pentylfuran	nd	N/A
						2-Octen-1-ol	nd	N/A
						2-Methoxy-3-1(methylethyl) pyrazine	nd	N/A
						2-Nonanone	nd	N/A
						Fenchone	nd	N/A
						2-Methyl-isoborneol	nd	N/A
a-Terpineol	nd	N/A						
Borneol	nd	N/A						
Geosmin	nd	N/A						
Thujopsene	nd	N/A						

LEGEND

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

<: Less than
mg/M³: Milligrams per cubic meter
nd: Not detected

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20803001-123
DIRECT-READING RESULTS
6TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 18, 2008

LOCATION/SITE ACTIVITIES	SAMPLE TIME	CONTAMINANT	RESULTS (ppm)	COMMENTS
Column N21 area; approximately five feet above floor/Normal office activities	9:46/9:49	Volatile Organic Compounds	ND < 0.1	N/A
		Ozone	ND < 0.05	
Column N18 area; approximately five feet above floor/Normal office activities	9:55/9:59	Volatile Organic Compounds	ND < 0.1	N/A
		Ozone	ND < 0.05	
Column K18 area; approximately five feet above floor/Normal office activities	10:04/10:10	Volatile Organic Compounds	ND < 0.1	N/A
		Ozone	ND < 0.05	
Column K22 area; approximately five feet above floor/Normal office activities	10:16/10:20	Volatile Organic Compounds	ND < 0.1	N/A
		Ozone	ND < 0.05	

LEGEND

ND: Not detected
<: Less than

N/A: Not applicable
ppm: Parts per million



EMLab P&K

Report for:

Mr. Wes Frey
Hygiene Technologies International, Inc.: Northern California
3127 Bowen Island Street
West Sacramento, CA 95691

Regarding: Project: 20803001
 EML ID: 402348

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:
Spore trap analysis: 03-25-2008

Project SOPs: Spore trap analysis (I100000)

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

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. Wes Frey
 Re: 20803001

Date of Receipt: 03-21-2008
 Date of Report: 03-25-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20803001-TM43OUTJL		20803001-TM44JL		20803001-TM45JL		20803001-TM46JL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1766570-1		1766571-1		1766572-1		1766573-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*	13	533						
Aureobasidium								
Basidiospores*	9	240	1	13				
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	4	213						
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora	1	13						
Other brown								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*	3	40	2	27				
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	13		< 13		< 13		< 13	
Pollen/m3	147		13		13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		< 1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		1,039		40		< 13		< 13

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" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

Date of Receipt: 03-21-2008
 Date of Report: 03-25-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20803001-TM47JL		20803001-TM48JL		20803001-TM49JL		20803001-TM50JL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1766574-1		1766575-1		1766576-1		1766577-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13		
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*							1	53
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium								
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown	2	27					1	13
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		1+	
Hyphal fragments/m3	< 13		< 13		13		< 13	
Pollen/m3	13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		< 1+		< 1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		27		< 13		13		66

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" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

Date of Receipt: 03-21-2008
 Date of Report: 03-25-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20803001-TM51JL		20803001-TM52JL		20803001-TM53JL		20803001-TM54JL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1766578-1		1766579-1		1766580-1		1766581-1	
	raw ct.	spores/m3						
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium								
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown					1	13		
Other colorless								
Penicillium/Aspergillus types†	1	53					2	107
Pithomyces								
Rusts*			1	13			2	27
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		2+		2+		2+	
Hyphal fragments/m3	< 13		13		13		40	
Pollen/m3	< 13		< 13		13		13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		53		13		13		134

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" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

Date of Receipt: 03-21-2008
 Date of Report: 03-25-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20803001-TM55JL		20803001-TM56JL		20803001-TM57JL		20803001-TM58JL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1766582-1		1766583-1		1766584-1		1766585-1	
	raw ct.	spores/m3						
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*					1	13		
Bipolaris/Drechslera group								
Botrytis								
Chaetomium					1	13		
Cladosporium								
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		1+		1+		2+	
Hyphal fragments/m3	< 13		< 13		13		< 13	
Pollen/m3	< 13		13		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		< 13		< 13		26		< 13

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" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

Date of Receipt: 03-21-2008
 Date of Report: 03-25-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20803001-TM59JL		20803001-TM60OUTJL	
Comments (see below)	None		None	
Lab ID-Version‡:	1766586-1		1766587-1	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria				
Arthrinium				
Ascospores*			2	27
Aureobasidium				
Basidiospores*			10	133
Bipolaris/Drechslera group				
Botrytis				
Chaetomium			4	53
Cladosporium			5	267
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other brown				
Other colorless				
Penicillium/Aspergillus types†			4	213
Pithomyces				
Rusts*				
Smuts*, Periconia, Myxomycetes*	1	13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	2+		2+	
Hyphal fragments/m3	< 13		40	
Pollen/m3	27		427	
Skin cells (1-4+)	< 1+		< 1+	
Sample volume (liters)	75		75	
TOTAL SPORE/m3		13		693

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" greater than 1 indicates amended data.

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MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 20803001-TM43OUTJL

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: March				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	27	210	43	7	27	230	60
Bipolaris/Drechslera group	-	7	13	120	12	7	13	120	14
Chaetomium	-	7	13	120	8	7	13	110	19
Cladosporium	213	27	320	4,300	91	53	640	6,500	98
Curvularia	-	7	13	210	7	7	13	210	7
Nigrospora	13	7	13	110	7	7	13	170	8
Penicillium/Aspergillus types	-	27	160	1,600	82	40	210	2,500	88
Stachybotrys	-	7	13	310	3	7	13	330	5
Torula	-	7	13	170	8	7	13	150	13
Seldom found growing indoors**									
Ascospores	533	13	130	2,000	74	13	110	1,800	73
Basidiospores	240	13	320	5,700	90	13	270	6,900	95
Rusts	-	7	13	320	17	7	13	270	29
Smuts, Periconia, Myxomycetes	40	7	27	310	54	8	40	470	71
TOTAL SPORES/M3	1,039								

† 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.

*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.

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MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 20803001-TM60OUTJL

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: March				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	27	210	43	7	27	230	60
Bipolaris/Drechslera group	-	7	13	120	12	7	13	120	14
Chaetomium	53	7	13	120	8	7	13	110	19
Cladosporium	267	27	320	4,300	91	53	640	6,500	98
Curvularia	-	7	13	210	7	7	13	210	7
Nigrospora	-	7	13	110	7	7	13	170	8
Penicillium/Aspergillus types	213	27	160	1,600	82	40	210	2,500	88
Stachybotrys	-	7	13	310	3	7	13	330	5
Torula	-	7	13	170	8	7	13	150	13
Seldom found growing indoors**									
Ascospores	27	13	130	2,000	74	13	110	1,800	73
Basidiospores	133	13	320	5,700	90	13	270	6,900	95
Rusts	-	7	13	320	17	7	13	270	29
Smuts, Periconia, Myxomycetes	-	7	27	310	54	8	40	470	71
TOTAL SPORES/M3	693								

† 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.

*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.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20803001-TM43OUTJL:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					13 - 160 - 4,200	76
Basidiospores					13 - 320 - 14,000	92
Cladosporium					40 - 530 - 8,400	94
Nigrospora					7 - 13 - 210	14
Penicillium/Aspergillus types					27 - 210 - 2,600	85
Smuts, Periconia, Myxomycetes					7 - 40 - 760	70
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: 20803001-TM44JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low		
Species Detected		Spores/m3				
		<100	1K	10K	>100K	
	Basidiospores					13
	Smuts, Periconia, Myxomycetes					27
	Total					40

Location: 20803001-TM45JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low		
Species Detected		Spores/m3				
		<100	1K	10K	>100K	
	None Detected					N/A

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20803001-TM46JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected		N/A		

Location: 20803001-TM47JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 111 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Other brown		27		
Total		27		

Location: 20803001-TM48JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected		N/A		

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20803001-TM49JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Total					13

Location: 20803001-TM50JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.0857 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Other brown					13
Total					66

Location: 20803001-TM51JL

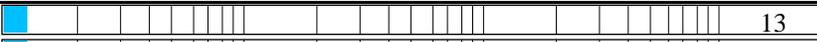
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 5%	dF: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					53
Total					53

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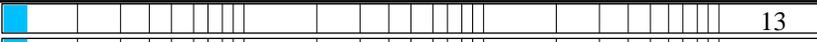
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MoldSTAT™: Supplementary Statistical Spore Trap Report

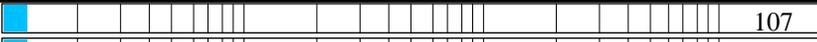
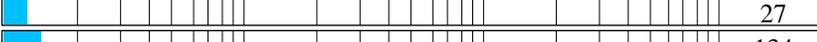
Location: 20803001-TM52JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Rusts					13
Total					13

Location: 20803001-TM53JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Other brown					13
Total					13

Location: 20803001-TM54JL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 12%	dF: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: 7 Result: -0.4375 Critical value: 0.6786 Outside Similar: No	Score: 117 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					107
Rusts					27
Total					134

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20803001-TM55JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					N/A

Location: 20803001-TM56JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					N/A

Location: 20803001-TM57JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.0143 Critical value: 0.7714 Outside Similar: No	Score: 121 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					13
Chaetomium					13
Total					26

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20803001-TM58JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected				N/A

Location: 20803001-TM59JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Smuts, Periconia, Myxomycetes				13
Total				13

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

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

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

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MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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Outdoor Summary: 20803001-TM60OUTJL:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					13 - 160 - 4,200	76
Basidiospores					13 - 320 - 14,000	92
Chaetomium					7 - 13 - 120	13
Cladosporium					40 - 530 - 8,400	94
Penicillium/Aspergillus types					27 - 210 - 2,600	85
Smuts, Periconia, Myxomycetes					7 - 40 - 760	70
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: 20803001-TM44JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.2857 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				
	Smuts, Periconia, Myxomycetes				
	Total				

Location: 20803001-TM45JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	None Detected				

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20803001-TM46JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected		N/A		

Location: 20803001-TM47JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 111 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Other brown		27		
Total		27		

Location: 20803001-TM48JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected		N/A		

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20803001-TM49JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Total					13

Location: 20803001-TM50JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.1143 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Other brown					13
Total					66

Location: 20803001-TM51JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					53
Total					53

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20803001-TM55JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected		N/A		

Location: 20803001-TM56JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected		N/A		

Location: 20803001-TM57JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: -0.1250 Critical value: 0.8000 Outside Similar: No	Score: 119 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Basidiospores		13		
Chaetomium		13		
Total		26		

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20803001-TM58JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected		N/A		

Location: 20803001-TM59JL

% 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: 15 Result: 4.0557 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Smuts, Periconia, Myxomycetes		13		
Total		13		

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

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

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

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MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

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MoldSCORE™: Spore Trap Report

Location: 20803001-TM45JL

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

Location: 20803001-TM46JL

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

Client: Hygiene Technologies International, Inc.:
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MoldSCORE™: Spore Trap Report

Location: 20803001-TM47JL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown	█				2	27				111
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						27				Final MoldSCORE 111

Location: 20803001-TM48JL

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

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MoldSCORE™: Spore Trap Report

Location: 20803001-TM49JL

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

Location: 20803001-TM50JL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					ND	< 13				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Other brown					1	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						66	Final MoldSCORE 105			

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MoldSCORE™: Spore Trap Report

Location: 20803001-TM51JL

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†	█				1	53				108
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						53	Final MoldSCORE 108			

Location: 20803001-TM52JL

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

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MoldSCORE™: Spore Trap Report

Location: 20803001-TM53JL

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

Location: 20803001-TM54JL

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†	█				2	107				117
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts	█				2	27				111
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						134				Final MoldSCORE 117

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MoldSCORE™: Spore Trap Report

Location: 20803001-TM55JL

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

Location: 20803001-TM56JL

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

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MoldSCORE™: Spore Trap Report

Location: 20803001-TM57JL

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	█				1	13	█	█		121
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	13	█	█		101
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						26				
							Final MoldSCORE			121

Location: 20803001-TM58JL

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

Date of Receipt: 03-21-2008
 Date of Report: 03-25-2008

MoldSCORE™: Spore Trap Report

Location: 20803001-TM59JL

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

*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. Wes Frey
 Re: 20803001

Date of Receipt: 03-21-2008
 Date of Report: 03-25-2008

MoldSCORE™: Spore Trap Report

Location: 20803001-TM45JL

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

Location: 20803001-TM46JL

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

Date of Receipt: 03-21-2008
 Date of Report: 03-25-2008

MoldSCORE™: Spore Trap Report

Location: 20803001-TM47JL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown	█				2	27				111
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						27				Final MoldSCORE 111

Location: 20803001-TM48JL

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

Date of Receipt: 03-21-2008
 Date of Report: 03-25-2008

MoldSCORE™: Spore Trap Report

Location: 20803001-TM49JL

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

Location: 20803001-TM50JL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					ND	< 13				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Other brown					1	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						66	Final MoldSCORE 105			

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

Date of Receipt: 03-21-2008
 Date of Report: 03-25-2008

MoldSCORE™: Spore Trap Report

Location: 20803001-TM51JL

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†	█				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						53	Final MoldSCORE 107			

Location: 20803001-TM52JL

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

Date of Receipt: 03-21-2008
 Date of Report: 03-25-2008

MoldSCORE™: Spore Trap Report

Location: 20803001-TM53JL

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

Location: 20803001-TM54JL

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†	█				2	107	█			115
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††					ND	< 13	█			100
Rusts	█				2	27	█			111
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						134				Final MoldSCORE 115

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

Date of Receipt: 03-21-2008
 Date of Report: 03-25-2008

MoldSCORE™: Spore Trap Report

Location: 20803001-TM55JL

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

Location: 20803001-TM56JL

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

Date of Receipt: 03-21-2008
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MoldSCORE™: Spore Trap Report

Location: 20803001-TM57JL

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	█				1	13	█			119
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	13	█			101
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						26				Final MoldSCORE 119

Location: 20803001-TM58JL

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

Date of Receipt: 03-21-2008
 Date of Report: 03-25-2008

MoldSCORE™: Spore Trap Report

Location: 20803001-TM59JL

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

*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.



EMLab P&K

Report for:

Mr. Wes Frey
Hygiene Technologies International, Inc.: Northern California
3127 Bowen Island Street
West Sacramento, CA 95691

Regarding: Project: 20803001
 EML ID: 402348

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:
Culturable air fungi (Incl. Asp spp.): 03-27-2008
Spore trap analysis: 03-25-2008

Project SOPs: Culturable air fungi (Incl. Asp spp.) (I100002), Spore trap analysis (I100000)

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

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. Wes Frey
Re: 20803001

Date of Receipt: 03-21-2008
Date of Report: 03-27-2008

CULTURABLE AIR FUNGI REPORT

Location:	20803001-VM11OUTJL		20803001-VM12JL		20803001-VM13JL		20803001-VM14JL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1766560-1		1766561-1		1766562-1		1766563-1	
	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3
Acremonium								
Alternaria								
Aspergillus flavus								
Aspergillus fumigatus								
Aspergillus glaucus	2	35						
Aspergillus nidulans								
Aspergillus niger	1	18						
Aspergillus ochraceus								
Aspergillus versicolor	2	35						
Aureobasidium								
Basidiomycetes								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	12	212						
Curvularia								
Epicoccum								
Fusarium								
Non-sporulating fungi	1	18	1	18				
Paecilomyces								
Penicillium	4	71						
Phoma								
Rhizopus								
Stachybotrys chartarum								
Ulocladium								
Yeasts	11	194						
Positive Hole	400		400		400		400	
Sample volume (liters)	56.6		56.6		56.6		56.6	
TOTAL CFU*/M3		583		18		< 18		< 18

* cfu = colony forming units Positive hole correction chart used for all calculations

Comments:

Note: Interpretation is left to the company and/or persons who conducted the field work. Variation is an inherent part of biological sampling. The presence or absence of a few genera in small numbers should not be considered abnormal.
 NORMAL SPORE LEVELS: Indoor spore levels usually average 30 to 80% of the outdoor spore level at the time of sampling, with the same general distribution of spore types. Filtered air, air-conditioned air, or air remote from outside sources may average 5 to 15% of the outside air at the time of sampling. (These percentages are guidelines, only. A major factor is the accessibility of outdoor air. A residence with open doors and windows and heavy foot traffic may average 95% of the outdoor level while high rise office buildings with little air exchange may average 2%. Dusty interiors may exceed 100% of the outdoors to some degree, but will still mirror the outdoor distribution of spore types.)
 PROBLEM INTERIORS: A substantial increase of one or two spore types which are inconsistent with and non-reflective of the outside distribution of spore types is usually indicative of an indoor reservoir of mold growth.
 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" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20803001

Date of Receipt: 03-21-2008
Date of Report: 03-27-2008

CULTURABLE AIR FUNGI REPORT

Location:	20803001-VM15JL		20803001-VM16JL		20803001-VM17JL		20803001-VM18JL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1766564-1		1766565-1		1766566-1		1766567-1	
	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3
Acremonium								
Alternaria								
Aspergillus flavus								
Aspergillus fumigatus								
Aspergillus glaucus								
Aspergillus nidulans								
Aspergillus niger								
Aspergillus ochraceus								
Aspergillus versicolor								
Aureobasidium								
Basidiomycetes								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	18						
Curvularia								
Epicoccum								
Fusarium								
Non-sporulating fungi					1	18		
Paecilomyces								
Penicillium								
Phoma								
Rhizopus								
Stachybotrys chartarum								
Ulocladium								
Yeasts								
Positive Hole	400		400		400		400	
Sample volume (liters)	56.6		56.6		56.6		56.6	
TOTAL CFU*/M3		18		< 18		18		< 18

* cfu = colony forming units Positive hole correction chart used for all calculations

Comments:

Note: Interpretation is left to the company and/or persons who conducted the field work. Variation is an inherent part of biological sampling. The presence or absence of a few genera in small numbers should not be considered abnormal.
 NORMAL SPORE LEVELS: Indoor spore levels usually average 30 to 80% of the outdoor spore level at the time of sampling, with the same general distribution of spore types. Filtered air, air-conditioned air, or air remote from outside sources may average 5 to 15% of the outside air at the time of sampling. (These percentages are guidelines, only. A major factor is the accessibility of outdoor air. A residence with open doors and windows and heavy foot traffic may average 95% of the outdoor level while high rise office buildings with little air exchange may average 2%. Dusty interiors may exceed 100% of the outdoors to some degree, but will still mirror the outdoor distribution of spore types.)
 PROBLEM INTERIORS: A substantial increase of one or two spore types which are inconsistent with and non-reflective of the outside distribution of spore types is usually indicative of an indoor reservoir of mold growth.
 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" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

Date of Receipt: 03-21-2008
 Date of Report: 03-27-2008

CULTURABLE AIR FUNGI REPORT

Location:	20803001-VM19JL		20803001-VM20OUTJL	
Comments (see below)	None		A	
Lab ID-Version‡:	1766568-1		1766569-1	
	raw ct.	cfu*/m3	raw ct.	cfu*/m3
Acremonium				
Alternaria				
Aspergillus flavus				
Aspergillus fumigatus				
Aspergillus glaucus				
Aspergillus nidulans				
Aspergillus niger				
Aspergillus ochraceus				
Aspergillus versicolor				
Aureobasidium				
Basidiomycetes				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium			16	283
Curvularia				
Epicoccum				
Fusarium				
Non-sporulating fungi			2	35
Paecilomyces				
Penicillium			1	18
Phoma				
Rhizopus			1	18
Stachybotrys chartarum				
Ulocladium				
Yeasts				
Positive Hole	400		400	
Sample volume (liters)	56.6		56.6	
TOTAL CFU*/M3		< 18		354

* cfu = colony forming units Positive hole correction chart used for all calculations

Comments: A) The sample was overgrown with a *Rhizopus* species which may have reduced or eliminated the presence of other fungi.

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 NORMAL SPORE LEVELS: Indoor spore levels usually average 30 to 80% of the outdoor spore level at the time of sampling, with the same general distribution of spore types. Filtered air, air-conditioned air, or air remote from outside sources may average 5 to 15% of the outside air at the time of sampling. (These percentages are guidelines, only. A major factor is the accessibility of outdoor air. A residence with open doors and windows and heavy foot traffic may average 95% of the outdoor level while high rise office buildings with little air exchange may average 2%. Dusty interiors may exceed 100% of the outdoors to some degree, but will still mirror the outdoor distribution of spore types.)
 PROBLEM INTERIORS: A substantial increase of one or two spore types which are inconsistent with and non-reflective of the outside distribution of spore types is usually indicative of an indoor reservoir of mold growth.
 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" greater than 1 indicates amended data.



HYGIENE TECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 20803001 Date Submitted: _____
 Project Contact: Wes Frey Turnaround Required: standard
 Lab Destination: EM lab Lab Contact: _____

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20803001-VM1104TL	50.0L	MEA	Viable Fungi ID
- VM12JL	↓	↓	↓
- VM13JL	↓	↓	↓
- VM14JL	↓	↓	↓
- VM15JL	↓	↓	↓
- VM16JL	↓	↓	↓
- VM17JL	↓	↓	↓
- VM18JL	↓	↓	↓
- VM19JL	↓	↓	↓
✓ - VM2004TL	↓	↓	↓
- TM4304TL	75L	allerg SEA ID	Total Fungi ID
- TM44JL	↓	↓	↓
- TM45JL	↓	↓	↓
- TM46JL	↓	↓	↓
- TM47JL	↓	↓	↓
✓ - TM48JL	↓	↓	↓

Special Instructions: _____

1. Sampled by: John Le 3/20/08 1245 Received by: Chun Lan 3/20/08 1730
 2. Relinquished by: [Signature] 3/20/08 1745 Received by: [Signature] 3/20/08 1PM
 3. Relinquished by: _____ Received by: _____
 Please include signature, date, and time

Lab Use Only: _____

402318



HYGIENE TECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1843
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 20803001 Date Submitted: _____
 Project Contact: Wes Frey Turnaround Required: Standard
 Lab Destination: EM Lab Lab Contact: _____

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20803001-TM495L	75L	allegencia D	Total Lungi ID
-TM505L			
-TM515L			
-TM525L			
-TM535L			
-TM545L			
-TM555L			
-TM565L			
-TM575L			
-TM585L			
-TM595L			
-TM000UTJL			

Special Instructions: _____

1. Sampled by: John Le 3/20/08 1245 Received by: [Signature] 3/20/08 17:00
 2. Relinquished by: [Signature] 3/20/08 1245 Received by: [Signature] 3/20/08 1245
 3. Relinquished by: _____ Received by: _____
 Please include signature, date, and time

Lab Use Only: _____



EMLab P&K

Report for:

Mr. Wes Frey
Hygiene Technologies International, Inc.: Northern California
3127 Bowen Island Street
West Sacramento, CA 95691

Regarding: Project: 20803001
 EML ID: 401905

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:
Direct microscopic exam (Qualitative): 03-24-2008
Spore trap analysis: 03-24-2008

Project SOPs: Direct microscopic exam (Qualitative) (I100005), Spore trap analysis (I100000)

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

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. Wes Frey
Re: 20803001

Date of Sampling: 03-17-2008
Date of Receipt: 03-20-2008
Date of Report: 03-24-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20803001-TM09CCJL		20803001-TM10CCJL		20803001-TM11CCJL		20803001-TM12CCJL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1764524-1		1764525-1		1764526-1		1764527-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*	1	53						
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	3	160	1	53				
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown					1	13	1	13
Other colorless								
Penicillium/Aspergillus types†	2	107	2	107				
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*	1	13					1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		2+		2+		3+	
Hyphal fragments/m3	40		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	3+		2+		2+		2+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		333		160		13		26

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" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20803001

Date of Sampling: 03-17-2008
Date of Receipt: 03-20-2008
Date of Report: 03-24-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20803001-TM13CCJL		20803001-TM14CCJL		20803001-TM15CCJL		20803001-TM16CCJL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1764528-1		1764529-1		1764530-1		1764531-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*			3	160				
Aureobasidium								
Basidiospores*			1	53				
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53	1	53			4	213
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown			1	13			2	27
Other colorless								
Penicillium/Aspergillus types†	2	107	2	107	1	53		
Pithomyces								
Rusts*			1	13			1	13
Smuts*, Periconia, Myxomycetes*	1	13			1	13	1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		3+		3+		4+	
Hyphal fragments/m3	< 13		13		< 13		27	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	2+		3+		3+		4+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		173		399		66		266

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.
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 ‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

Date of Sampling: 03-17-2008
 Date of Receipt: 03-20-2008
 Date of Report: 03-24-2008

DIRECT MICROSCOPIC EXAMINATION REPORT
 (Wet Mount)

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1764516-1: Swab sample 20803001-S09JL				
Heavy	Very few	2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	Many dark amorphous particles detected, not biological in appearance.	Mold growth
Lab ID-Version: 1764517-1: Swab sample 20803001-S10JL				
Heavy	Few	2+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 1+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	Many dark amorphous particles detected, not biological in appearance.	Mold growth
Lab ID-Version: 1764518-1: Swab sample 20803001-S11JL				
Heavy	Very few	2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) < 1+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	Many dark amorphous particles detected, not biological in appearance.	Mold growth
Lab ID-Version: 1764519-1: Swab sample 20803001-S12JL				
Heavy	Few	2+ <i>Scopulariopsis</i> species (spores, hyphae, conidiophores) 2+ <i>Penicillium</i> species (spores, hyphae, conidiophores) 2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	Many dark amorphous particles detected, not biological in appearance.	Mold growth
Lab ID-Version: 1764520-1: Swab sample 20803001-S13JL				
Heavy	Few	3+ <i>Rhizopus</i> species (spores, hyphae, sporangiophores) 1+ <i>Acremonium</i> species (spores, hyphae, conidiophores)	Many dark amorphous particles detected, not biological in appearance.	Mold growth
Lab ID-Version: 1764521-1: Swab sample 20803001-S14JL				
Heavy	Very few	4+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	Very few <i>Chaetomium</i> spores detected.	Mold growth
Lab ID-Version: 1764522-1: Swab sample 20803001-S15JL				
Moderate	Very few	4+ <i>Rhizopus</i> species (spores, hyphae, sporangiophores)	None	Mold growth

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1764523-1: Swab sample 20803001-S16JL				
Heavy	Very few	2+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 1+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	Many dark amorphous particles detected, not biological in appearance.	Mold growth

‡ A "Version" greater than 1 indicates amended data.



HYGIENE TECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 20803001 Date Submitted: 3/19/08
Project Contact: Wes Frey Turnaround Required: Standard
Lab Destination: EM lab Lab Contact: _____

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20803001-TM09CCJL	75L	allegiance D	Total fungi ID
-TM10CCJL	↓	↓	↓
-TM11CCJL	↓	↓	↓
-TM12CCJL	↓	↓	↓
-TM13CCJL	↓	↓	↓
-TM14CCJL	↓	↓	↓
-TM15CCJL	↓	↓	↓
-TM16CCJL	↓	↓	↓
-S09JL	N/A	SWABS	Surface fungi ID qualitative
-S10JL	↓	↓	↓
-S11JL	↓	↓	↓
-S12JL	↓	↓	↓
-S13JL	↓	↓	↓
-S14JL	↓	↓	↓
-S15JL	↓	↓	↓
-S16JL	↓	↓	↓

Special Instructions: _____

1. Sampled by: John Le 3/17/08 10:30 Received by: JANORNE 3/20/08 1PM
 2. Relinquished by: Marta Em 3/19/08 17:30 Received by: _____
 3. Relinquished by: Drop Box Received by: _____
- Please include signature, date, and time

Lab Use Only:

40905



EMLab P&K

Report for:

Mr. Wes Frey
Hygiene Technologies International, Inc.: Northern California
3127 Bowen Island Street
West Sacramento, CA 95691

Regarding: Project: 20803001
 EML ID: 401908

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:

Direct microscopic exam (Qualitative): 03-24-2008

Project SOPs: Direct microscopic exam (Qualitative) (I100005)

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

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.

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Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20803001

Date of Sampling: 03-18-2008
 Date of Receipt: 03-20-2008
 Date of Report: 03-24-2008

DIRECT MICROSCOPIC EXAMINATION REPORT

(Wet Mount)

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1764466-1: Tape sample 20803001-TL01JL				
Light	Very few	None	Very few <i>Stachybotrys</i> spores detected.	Mold growth in vicinity?
Lab ID-Version: 1764467-1: Tape sample 20803001-TL02JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764468-1: Tape sample 20803001-TL03JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764469-1: Tape sample 20803001-TL04JL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1764470-1: Tape sample 20803001-TL05JL				
Light	Very few	None	None	No mold spores detected
Lab ID-Version: 1764471-1: Tape sample 20803001-TL06JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764472-1: Tape sample 20803001-TL07JL				
Scant	None	None	None	No mold spores detected
Lab ID-Version: 1764473-1: Tape sample 20803001-TL08JL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1764474-1: Tape sample 20803001-TL09JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764475-1: Tape sample 20803001-TL10JL				
Scant	None	None	None	No mold spores detected
Lab ID-Version: 1764476-1: Tape sample 20803001-TL11JL				
Light	Very few	None	None	Normal trapping

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1764477-1: Tape sample 20803001-TL12JL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1764478-1: Tape sample 20803001-TL13JL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1764479-1: Tape sample 20803001-TL14JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764480-1: Tape sample 20803001-TL15JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764481-1: Tape sample 20803001-TL16JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764482-1: Tape sample 20803001-TL17JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764483-1: Tape sample 20803001-TL18JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764484-1: Tape sample 20803001-TL19JL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1764485-1: Tape sample 20803001-TL20JL				
Light	Very few	< 1+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores)	None	Minimal mold growth
Lab ID-Version: 1764486-1: Tape sample 20803001-TL21JL				
Moderate	Few	None	None	Normal trapping
Lab ID-Version: 1764487-1: Tape sample 20803001-TL22JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764488-1: Tape sample 20803001-TL23JL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1764489-1: Tape sample 20803001-TL24JL				
Light	Very few	None	None	Normal trapping

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1764490-1: Tape sample 20803001-TL25JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764491-1: Tape sample 20803001-TL26JL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1764492-1: Tape sample 20803001-TL27JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764493-1: Tape sample 20803001-TL28JL				
Light	Very few	None	Very few <i>Stachybotrys</i> spores detected.	Mold growth in vicinity?
Lab ID-Version: 1764494-1: Tape sample 20803001-TL29JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764495-1: Tape sample 20803001-TL30JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764496-1: Tape sample 20803001-TL31JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764497-1: Tape sample 20803001-TL32JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764498-1: Tape sample 20803001-TL33JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764499-1: Tape sample 20803001-TL34JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764500-1: Tape sample 20803001-TL35JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764501-1: Tape sample 20803001-TL36JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764502-1: Tape sample 20803001-TL37JL				
Light	None	None	None	No mold spores detected

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1764503-1: Tape sample 20803001-TL38JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764504-1: Tape sample 20803001-TL39JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1764505-1: Tape sample 20803001-TL40JL				
Light	Very few	None	None	Normal trapping

‡ A "Version" greater than 1 indicates amended data.



HYGIENE TECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 20803001 Date Submitted: 3/19/08
 Project Contact: Wes Frey Turnaround Required: Standard
 Lab Destination: EM lab Lab Contact: _____

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20803001-TL01JL	N/A	tape	Surface mold ID qualitative
-TL02JL			
-TL03JL			
-TL04JL			
-TL05JL			
-TL06JL			
-TL07JL			
-TL08JL			
-TL09JL			
-TL10JL			
-TL11JL			
-TL12JL			
-TL13JL			
-TL14JL			
-TL15JL			
-TL16JL			

Special Instructions: _____

1. Sampled by: John Ye 3/18/08 1130 Received by: _____
 2. Relinquished by: Mick 3/19/08 1730 Received by: _____
 3. Relinquished by: Prep box Received by: _____
- Please include signature, date, and time

Lab Use Only: _____

401908



HYGIENE TECH

Hygiene Technologies International, Inc.

8825 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
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Request For Analysis

Project Number/Purchase Order: 20803001 Date Submitted: 3/19/08
 Project Contact: Wee Frey Turnaround Required: standard
 Lab Destination: EM lab Lab Contact: _____

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20803001-TL173L	N/A	tape	Surface mold ID qualitative
↓ -TL183L	↓	↓	↓
↓ -TL193L	↓	↓	↓
↓ -TL203L	↓	↓	↓
↓ -TL213L	↓	↓	↓
↓ -TL223L	↓	↓	↓
↓ -TL233L	↓	↓	↓
↓ -TL243L	↓	↓	↓
↓ -TL253L	↓	↓	↓
↓ -TL263L	↓	↓	↓
↓ -TL273L	↓	↓	↓
↓ -TL283L	↓	↓	↓
↓ -TL293L	↓	↓	↓
↓ -TL303L	↓	↓	↓
↓ -TL313L	↓	↓	↓
↓ -TL323L	↓	↓	↓

Special Instructions: _____

1. Sampled by: John Le 3/18/08 1130 Received by: _____
 2. Relinquished by: Makhan 3/19/08 1730 Received by: _____
 3. Relinquished by: Drop Box Received by: _____
 Please include signature, date, and time

Lab Use Only: _____

4/19/08



HYGIENE TECH

Hygiene Technologies International, Inc.

- 0803035

1082

3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 20803001 Date Submitted: 3/27/08
Project Contact: Wes Frey Turnaround Required: Normal
Lab Destination: Bio Hygiene Lab Contact: _____

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20803001 - TL613L	N/A	tape	M102.1
20803001 - TL623L	↓	↓	↓
20803001 - TL633L			
20803001 - TL643L			
20803001 - TL653L			
20803001 - TL663L			
20803001 - TL673L			
20803001 - TL683L			
20803001 - TL693L			
20803001 - TL703L			
20803001 - TL713L			
20803001 - TL723L			
20803001 - TL733L			
20803001 - TL743L			
20803001 - TL753L			
20803001 - TL763L			

Special Instructions: _____

1. Sampled by: John Le 3/26/08 12:00 Received by: Makha Em 3/27/08 12:00
2. Relinquished by: Makha Em 3/27/08 17:00 Received by: R. Galley 03.28.08 9:45
3. Relinquished by: R. Galley 03.28.08 11:00 Received by: LHW 03.31.08 11:20AM (-TL613L to -TL703L)
R. Galley 03.31.08 8:15:00
(-TL713L to -TL763L) 03.31.08

Lab Use Only:
Completed on 04.01.08 Book 3177 p.19 (-TL613L to -TL683L) p.20 (-TL693L, -TL703L). LHW
Completed on 04.01.08 Book 3202 p.1 (-TL713L to -TL773L) p.2 (-TL783L to -TL803L) LHW

FINAL REPORT: Direct Microscopic Exam Of Tape Lift Samples

PROJECT NUMBER: 20803001

LABORATORY ID NUMBER: 0803035

Hygiene Technologies International, Inc.

Received Date: March 28, 2008

Attention: Wes Frey

Report Date: April 01, 2008

4330 Auburn Blvd. Suite 1850

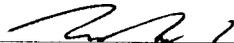
Sacramento, CA 95841

Customer Sample Number	Date of Analysis	Method	Sample Intact	Amorphous Debris	Miscellaneous Fungi/Pollen ¹	Fungi with hyphal and /or sporulating structures ²	Loose spores/ Other comments ²
-TL61JL	04/01/08	M102.1	Yes	Very light dander, Very light fibers, Very light particulates	Trace	None	None
-TL62JL	04/01/08	M102.1	Yes	Light dander, Light particulates, Very light fibers	Trace	None	Trace Cladosporium
-TL63JL	04/01/08	M102.1	Yes	Very light dander, Very light fibers, Very light particulates	None	None	None
-TL64JL	04/01/08	M102.1	Yes	Moderate dander, Light fibers, Light particulates	Trace	None	Trace Alternaria*, Trace Epicoccum*, *(single spore observed)
-TL65JL	04/01/08	M102.1	Yes	Moderate dander, Moderate fibers, Light particulates, Very light wood fibers	Trace	Trace Unidentified hyphal fragments	Trace Alternaria, Trace Bipolaris/Drechslera group*, Trace Cladosporium, Trace Curvularia*, Trace Oidium*, *(single spore observed)
-TL66JL	04/01/08	M102.1	Yes	Light dander, Light fibers, Very light particulates	Trace	None	Trace Cladosporium
-TL67JL	04/01/08	M102.1	Yes	Light dander, Light particulates, Very light fibers	Trace	None	Trace Epicoccum (single spore observed)
-TL68JL	04/01/08	M102.1	Yes	Moderate dander, Light fibers, Light particulates, Very light insect parts	Trace	Trace Unidentified hyphal fragments	Trace Alternaria, Trace Cladosporium, Trace Nigrospora (single spore observed)
-TL69JL	04/01/08	M102.1	Yes	Very light dander, Very light fibers, Very light particulates	None	None	None

1 - Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

2 - Quantities of fungi are graded (from least to greatest) as a percentage of coverage of the slide area examined: none (0%), trace (0 - 10%), few (10 - 40%), numerous (40 - 80%), and massive (>80%).

APPROVED:



DATE:

04/01/08

Name

Lucas Walker

Title:

Lab Analyst

Results reported relate only to the sample items tested. This test report shall not be reproduced (except in full), corrected or added to without written approval from BioHygiene Laboratories, Inc.

FINAL REPORT: Direct Microscopic Exam Of Tape Lift Samples
PROJECT NUMBER: 20803001
LABORATORY ID NUMBER: 0803035
Hygiene Technologies International, Inc.
Received Date: March 28, 2008

Attention: Wes Frey

Report Date: April 01, 2008

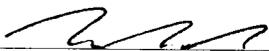
4330 Auburn Blvd. Suite 1850

Sacramento, CA 95841

Customer Sample Number	Date of Analysis	Method	Sample Intact	Amorphous Debris	Miscellaneous Fungi/Pollen ¹	Fungi with hyphal and /or sporulating structures ²	Loose spores/ Other comments ²
-TL70JL	04/01/08	M102.1	Yes	Moderate dander, Light fibers, Light particulates	Trace	Trace Unidentified hyphal fragments	Trace Unidentified mitosporic fungi
-TL71JL	04/01/08	M102.1	Yes	Very light dander, Very light fibers, Very light particulates	Trace	None	None
-TL72JL	04/01/08	M102.1	Yes	Light dander, Very light fibers, Very light particulates	Trace	None	Trace Alternaria (single spore observed)
-TL73JL	04/01/08	M102.1	Yes	Moderate dander, Moderate particulates, Very light fibers	Trace	None	Trace Cladosporium, Trace Penicillium/Aspergillus types
-TL74JL	04/01/08	M102.1	Yes	Moderate fibers, Light dander, Very light particulates	Trace	None	None
-TL75JL	04/01/08	M102.1	Yes	Very light dander, Very light fibers, Very light particulates	Trace	None	None
-TL76JL	04/01/08	M102.1	Yes	Very light dander, Very light fibers, Very light insect parts, Very light particulates	Trace	None	Trace Cladosporium*, Trace Penicillium/Aspergillus types, *(single spore observed)
-TL77JL	04/01/08	M102.1	Yes	Moderate dander, Moderate fibers, Moderate particulates, Very light insect parts	Trace	None	Trace Alternaria*, Trace Cladosporium, Trace Epicoccum, Trace Scopulariopsis, Trace Unidentified mitosporic fungi, *(single spore observed)

1 - Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

2 - Quantities of fungi are graded (from least to greatest) as a percentage of coverage of the slide area examined: none (0%), trace (0 - 10%), few (10 - 40%), numerous (40 - 80%), and massive (>80%).

APPROVED:

DATE:

04/01/08

Name

Lucas Walker

Title:

Lab Analyst

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FINAL REPORT: Direct Microscopic Exam Of Tape Lift Samples

PROJECT NUMBER: 20803001
Hygiene Technologies International, Inc.
 Attention: Wes Frey
 4330 Auburn Blvd. Suite 1850
 Sacramento, CA 95841

LABORATORY ID NUMBER: 0803035
Received Date: March 28, 2008
Report Date: April 01, 2008

Customer Sample Number	Date of Analysis	Method	Sample Intact	Amorphous Debris	Miscellaneous Fungi/Pollen ¹	Fungi with hyphal and /or sporulating structures ²	Loose spores/ Other comments ²
-TL78JL	04/01/08	M102.1	Yes	Moderate dander, Light fibers, Very light particulates	Trace	None	Trace Unidentified mitosporic fungi (single spore observed)
-TL79JL	04/01/08	M102.1	Yes	Very light dander, Very light fibers, Very light particulates	Trace	None	Trace Alternaria, Trace Cladosporium
-TL80JL	04/01/08	M102.1	Yes	Light dander, Light fibers, Very light insect parts, Very light particulates	Trace	None	Trace Cladosporium, Trace Penicillium/Aspergillus types

1 - Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

2 - Quantities of fungi are graded (from least to greatest) as a percentage of coverage of the slide area examined: none (0%), trace (0 - 10%), few (10 - 40%), numerous (40 - 80%), and massive (>80%).

APPROVED:  **DATE:** 04/01/08
Name Lucas Wallin **Title:** Lab Analyst

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