



HYGIENETECH

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August 18, 2010

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

Document No. 21005001.3

Attention: David Gau

Regarding: Fungal Growth Remediation Monitoring Clearance Surveys
10th Floor

Dear Mr. Gau:

On various dates in May of 2010, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) monitored fungal growth remediation activities and conducted fungal growth remediation clearance surveys on the 10th Floor of the State of California Board of Equalization (BOE) building located at 450 N Street in Sacramento, California. Fungal growth remediation was performed by JLS Environmental Services, Inc. (JLS) under the direction of LaCroix Davis, LLC (LCD), an industrial hygiene consulting firm contracted with the State of California Department of General Services (DGS). The fungal growth remediation protocols for the project were established by LCD and can be found in their document *State Board of Equalization Generic Floor Remediation Protocol, Rev 1* dated August 3, 2009.

During the surveys, air and surface samples were collected within the 10th Floor remediation enclosures and one or more additional air samples were collected at outdoor locations on specific survey dates for comparison purposes. Air samples were collected using a Zefon brand Bio-Pump™ equipped with Zefon Air-O-Cell™ cassettes. Surface samples were collected using cellophane tape segments that were affixed to microscope slides. All such samples were subsequently analyzed for fungi (including yeasts, molds, rusts, smuts, and mushrooms) by trained and experienced microbiologists at a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program. The analytical data with supporting and background information appear in the enclosed Tables 21005001-8 and 21005001-9.

Fungal growth remediation occurred in various areas of the 10th Floor including the Men's and Women's Restrooms, the Janitor Closet, Storage Room 10C, Room 1012, the eastern and western electrical closets, and the southeastern corner southern and eastern punch-out window areas. During the remediation activities, HygieneTech observed and documented the removal of fungal growth-contaminated building materials and decontamination of the remaining materials including but not limited to the exposed interior wall cavity framing, proximate drywall not affected by fungal growth, ceilings, and subfloors. Additionally, all such work was performed within controlled negative pressure containments



that were monitored with the use of manometers. Those control measures were utilized so that dispersion of airborne spores was limited to the enclosed areas. The surface assessment data with supporting and background information regarding the 10th Floor fungal growth remediation activities appear in the enclosed Table 21005001-7.

The surface assessment data collected during the remediation activities indicated fungal growth involving *Acremonium*, *Alternaria*, unknown brown spore types, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, *Penicillium*, *Phoma/coelomycete*, *Stachybotrys*, and/or *Ulocladium* on various surfaces within the above mentioned remediation enclosures. Note that additional building material removal occurred at Column J20, however, no evidence of fungal growth was identified at that location.

Following the completion of the fungal growth remediation activities, attempts were made to clear the enclosed work areas. Prior to the clearance surveys, visual inspections were performed within each of the enclosed work areas. By observation, all gross quantities of fungal growth had been removed from the fungal growth remediation areas. Note, however, that some of the fungal growth affected gypsum board materials in the Men's Restroom, Women's Restroom, Janitor Room, Storage Room 10C, and the western and eastern electrical closet containments were not removed during the remediation activities based on DGS's consultation with the Fire Marshall regarding removal of fire rated walls and/or due to walls being considered inaccessible by DGS and/or their consultants. Such walls were instead abraded as needed to remove surface fungal growth, wet wiped with a biocide solution, HEPA vacuumed, and then encapsulated with Foster® Full Defense™ (40-25) fungicidal protective coating. Areas showing water staining but no evidence of fungal growth and some other areas were also painted with the Foster® Full Defense™ product.

On the clearance survey dates, the airborne total fungi data recorded indoors showed low levels of mostly common fungi including ascospores, basidiospores, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, and smuts. The spore types detected indoors matched those found outdoors, and the overall spore counts within the containments were well below the overall data recorded outdoors. Historical data indicate that indoor spore levels usually average 30 to 80 percent of the outdoor spore level at the time of sampling, with the same general distribution of spore types. The overall indoor data recorded during the surveys did not exceed seven percent of the outdoor datum on any of the survey dates. Similarly, as shown in Table 21005001-9, the surface sample data recorded within the containments showed no evidence of fungal growth or above background levels of fungal spores on any of the building material surfaces tested. These data do not represent conditions that are expected to pose a health hazard to occupants above that posed by the outside environment where exposures to airborne and surface-borne fungi are known to exist. Collectively, the results of the surveys satisfy the clearance criteria for fungal growth established for this project and notification to that effect was provided to representatives of BOE, JLS, LCD, and DGS on the dates that the lab data were received.

Be advised that the data provided with this correspondence only represent fungal growth and exposure potentials that existed at the time the surveys were performed and at the precise locations only, the latter of which were selected based on the available background information provided, and 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 while no evidence of additional fungal growth was seen at the time of the surveys, additional fungal growth may exist at one or more locations in the structure that were not specifically assessed during the surveys. And finally, the exposure data recorded during these surveys 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 entering the 10th Floor do experience non-specific ill effects, such as eye irritation, allergy symptoms, headache, or skin rash, then those affected should be referred to a medical professional in order to determine or specify the possible cause(s) of such reactions. If additional information becomes available, then further assessment may be warranted.

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

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.



Kenny K. Hsi, CIH
Technical Director



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

TABLE 21005001-7
SURFACE FUNGAL GROWTH POTENTIALS
ABATEMENT MONITORING
10TH FLOOR
SACRAMENTO, CALIFORNIA
MAY, 2010

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DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
05-11-10	21005001-7 TL02RE	Women's Restroom; within containment; sink cabinetry area; western partition wall at northern end; approximately 12 inches above floor; from vertical surface of gypsum board	Moderate	Very few	4+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores) 2+ <i>Penicillium</i> species (spores, hyphae, conidiophores) 2+ <i>Acremonium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
05-11-10	21005001-7 TL03RE	Women's Restroom; within containment; sink cabinetry area; western partition wall cavity at northern end; approximately 12 inches above floor; from vertical surface of the second layer of gypsum board	Heavy	Very few	3+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
05-11-10	21005001-7 TL01SM	Men's Restroom; within containment; sink cabinetry area; beneath middle sink; about center; from horizontal surface of previously removed sink cabinetry material	Moderate	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
05-11-10	21005001-7 TL02SM	Men's Restroom; within containment; eastern partition wall; about two feet south of northern towel dispenser area; approximately two feet above floor; from vertical surface of gypsum board	Heavy	Very few	2+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 2+ <i>Acremonium</i> species (spores, hyphae, conidiophores)	None	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+.



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DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
05-11-10	21005001-7 TL03SM	Men's Restroom; within containment; eastern partition wall cavity; about one foot south of northern towel dispenser area; approximately one foot above floor; from vertical surface of the second layer of gypsum board	Very heavy	Very few	1+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	Fungal growth
05-11-10	21005001-7 TL04SM	Men's Restroom; within containment; walk-in cavity by northern towel dispenser area; northern partition wall; about center; approximately two feet above floor; from reverse side of gypsum board	Very heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 3+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
05-11-10	21005001-7 TL01LS	Janitor closet; within containment; sink area; floor; from reverse side of vinyl sheet flooring	Heavy	Very few	4+ brown spore type, ID unknown (spores) 2+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)	None	Fungal growth
05-11-10	21005001-7 TL02LS	Janitor closet; within containment; northwestern corner; flooring; from horizontal surface of vinyl sheet flooring	Very heavy	Very few	1+ brown spore type, ID unknown (spores)	None	Fungal growth
05-11-10	21005001-7 TL03LS	Janitor closet; within containment; sink area; western partition wall at northwestern corner; approximately one inch above floor; from vertical surface of gypsum board	Heavy	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae) 1+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	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).

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DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
05-11-10	21005001-7 TL04LS	Janitor closet; within containment; northern partition wall cavity immediately west of sink area; approximately one inch above floor; from vertical surface of the second layer of gypsum board	Very heavy	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Fungal growth
05-12-10	21005001-7 TL04RE	Women's Restroom; within containment; ceiling plenum; western partition wall; about two feet north of southern partition wall; approximately one foot above ceiling; from vertical surface of gypsum board	Very heavy	Very few	None	None	Background
05-12-10	21005001-7 TL05SM	Men's Restroom; within containment; ceiling plenum; cavity behind urinals; northern partition wall; about center; approximately nine feet above floor; from vertical surface of gypsum board	Heavy	Very few	4+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores) 3+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) 3+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	Fungal growth
05-14-10	21005001-7 TL05RE	Southeastern corner; southern punchout window area; within containment; windowsill at western end; from reverse side of gypsum board	Heavy	Very few	4+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores)	None	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).

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ABATEMENT MONITORING
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DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
05-14-10	21005001-7 TL06RE	Southeastern corner; southern punchout window area; within containment; windowsill; about center; from horizontal surface and reverse side of gypsum board	Very Heavy	Very few	3+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 2+ <i>Phomal</i> coelomycete (hyphae, pycnidia)	None	Fungal growth
05-14-10	21005001-7 TL06SM	Southeastern corner; eastern punchout window area; within containment; about one foot north of Column J18; approximately one inch above floor; from vertical surface of gypsum board	Heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 3+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae) 2+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Fungal growth
05-14-10	21005001-7 TL07SM	Southeastern corner; eastern punchout window area; within containment; windowsill; about center; from horizontal surface of gypsum board	Very Heavy	Very few	3+ <i>Penicillium</i> species (spores, hyphae, conidiophores) 2+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 2+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)	None	Fungal growth
05-14-10	21005001-7 TL08SM	Southeastern corner; eastern punchout window area; within containment; windowsill; about center; from reverse side of gypsum board	Heavy	Very few	4+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores) 2+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	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).

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DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
05-14-10	21005001-7 TL09SM	Storage Room 10C; within containment; ceiling plenum; southeastern corner; horizontal soffit at northern end; about center; from horizontal surface of previously removed gypsum board	Very heavy	Very few	4+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) 4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	Fungal growth
05-14-10	21005001-7 TL10SM	Storage Room 10C; within containment; ceiling plenum; southeastern corner; horizontal soffit at northern end; about center; from reverse side of previously removed gypsum board	Very heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Fungal growth
05-14-10	21005001-7 TL11SM	Storage Room 10C; within containment; ceiling plenum; southeastern corner; eastern partition wall; about five feet north of southern partition wall; approximately two feet above ceiling; from vertical surface of the second layer of gypsum board	Heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
05-14-10	21005001-7 TL05LS	Room 1012; within containment; column at southeastern corner; western partition wall; about center; approximately one inch above floor; from vertical surface of gypsum board	Very heavy	Very few	3+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 3+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)	None	Fungal growth
05-14-10	21005001-7 TL06LS	Room 1012; within containment; column at southeastern corner; western partition wall at southern end; from bottom surface of gypsum board	Very heavy	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)	None	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).

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DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
05-14-10	21005001-7 TL07LS	Column J20 area; within containment; southern perimeter wall; about center; approximately 12 inches above floor; from vertical surface of gypsum board	Moderate	Very few	None	None	Background
05-17-10	21005001-7 TL07RE	Western hallway; northern electrical closet; within containment; eastern partition wall; about two feet south of northern partition wall; approximately eight feet above floor; from vertical surface of gypsum board	Heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
05-17-10	21005001-7 TL08RE	Eastern hallway; southern electrical closet; within containment; western partition wall; about three feet north of southern partition wall; approximately eight feet above floor; from vertical surface of gypsum board	Heavy	Very few	3+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
05-17-10	21005001-7 TL09RE	Eastern hallway; northern electrical closet; within containment; western partition wall; junction of eastern and northern partition wall; approximately eight feet above floor; from vertical surface of gypsum board	Very heavy	Very few	2+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	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+.



CLIENT: State of California
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Sacramento, California 94279

**TABLE 21005001-8
AIRBORNE TOTAL FUNGI RESULTS
CLEARANCE
10TH FLOOR
SACRAMENTO, CALIFORNIA
MAY, 2010**

Page 1

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

SAMPLE NUMBER	21005001-8 TM01OUTSM	21005001-8 TM02SM	21005001-8 TM11OUTLS	21005001-8 TM12LS
SAMPLING LOCATION/ACTIVITIES	Outdoors; southwestern corner of building; about 15 feet southwest of parking booth; approximately five feet above ground/Normal outdoor activities	Janitor Closet; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Outdoors; about ten feet west of building; approximately five feet above ground/Normal outdoor activities	Women's Restroom; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only
DATE	05-13-10	05-13-10	05-14-10	05-14-10
START/STOP	15:33:00/15:38:00	15:59:00/16:04:00	14:37:00/14:42:00	14:59:00/15:04:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	27		27	
Ascospores	210		210	
Basidiospores	2,300		4,600	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium			40	
Cladosporium	960		1,100	
Curvularia				
Epicoccum				
Nigrospora	13			
Oidium	13		13	
Other brown				
Penicillium/Aspergillus types	110	110	960	53
Pithomyces				
Rusts	40		67	
Smuts, Periconia, Myxomycetes	67	13	630	
Stachybotrys				
Stemphylium	13			
Torula	190		13	
Ulocladium				
Hyphal fragments	110	13	67	<13
Background debris*	3+	3+	3+	3+
TOTAL**	3,900	120	7,700	53

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

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

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CLEARANCE
10TH FLOOR
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MAY, 2010**

Page 2

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

SAMPLE NUMBER	21005001-8 TM13LS	21005001-8 TM03OUTSM	21005001-8 TM04SM	21005001-8 TM05SM
SAMPLING LOCATION/ACTIVITIES	Men's Restroom; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Outdoors; southwestern corner of building; about 15 feet southwest of parking booth; approximately five feet above ground/Normal outdoor activities	Southeastern corner; southern punchout window area; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Room 1012; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only
DATE	05-14-10	05-17-10	05-17-10	05-17-10
START/STOP	15:12:00/15:17:00	08:55:00/09:00:00	09:21:00/09:26:00	09:34:00/09:39:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		120		
Ascospores		270	53	
Basidiospores		1,100	110	53
Bipolaris/Drechslera group				
Botrytis		13		
Chaetomium				
Cladosporium		530		53
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types		270		
Pithomyces				
Rusts		120		
Smuts, Periconia, Myxomycetes	13	390	27	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	40	13	13
Background debris*	3+	2+	2+	2+
TOTAL**	13	2,800	190	110

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

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

SAMPLE NUMBER	21005001-8 TM06SM	21005001-8 TM14OUTLS	21005001-8 TM15LS	21005001-8 TM16LS
SAMPLING LOCATION/ACTIVITIES	Southeastern corner; eastern punchout window area; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Outdoors; about ten feet southwest of building; approximately five feet above ground/Normal outdoor activities	Storage Room 10C; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Column J20 area; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only
DATE	05-17-10	05-18-10	05-18-10	05-18-10
START/STOP	09:48:00/09:53:00	14:34:00/14:39:00	14:56:00/15:01:00	15:12:00/15:17:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		53		13
Ascospores		690		
Basidiospores		2,700	53	53
Bipolaris/Drechslera group		53		
Botrytis				
Chaetomium				
Cladosporium		1,800		
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types	110	110		
Pithomyces				
Rusts		67	27	
Smuts, Periconia, Myxomycetes		80		
Stachybotrys				
Stemphylium		80		
Torula				
Ulocladium				
Hyphal fragments	<13	27	<13	<13
Background debris*	2+	2+	4+	4+
TOTAL**	110	5,700	80	67

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

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10TH FLOOR
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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21005001-8 TM17LS	21005001-8 TM18LS	21005001-8 TM19LS	
SAMPLING LOCATION/ACTIVITIES	Western hallway; between northern and central electrical closets; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Eastern hallway; between northern and central electrical closet; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Eastern hallway; southern electrical closet; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	This column intentionally left blank
DATE	05-18-10	05-18-10	05-18-10	
START/STOP	15:27:00/15:32:00	15:43:00/15:48:00	15:56:00/16:01:00	
SAMPLE TIME	5 minutes	5 minutes	5 minutes	
Alternaria				
Ascospores				
Basidiospores			53	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		110	53	
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts, Periconia, Myxomycetes			13	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	13	
Background debris*	4+	3+	2+	
TOTAL**	<13	110	120	

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

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

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 21005001-9
SURFACE FUNGAL GROWTH POTENTIALS
CLEARANCE
10TH FLOOR
SACRAMENTO, CALIFORNIA
MAY, 2010

Page 1

DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
05-13-10	21005001-9 TL01SM	Janitor Closet; within containment; sink area; northern partition wall cavity; about center; approximately one inch above floor; from vertical surface of metal stud	Light	Very few	None	None	Background
05-13-10	21005001-9 TL02SM	Janitor Closet; within containment; sink area; about center; floor; from horizontal surface of concrete	Light	Very few	None	None	Background
05-14-10	21005001-9 TL11LS	Women's Restroom; within containment; western partition wall cavity; about center; approximately six inches above floor; from vertical surface of metal	Light	Very few	None	None	Background
05-14-10	21005001-9 TL12LS	Women's Restroom; within containment; southwestern corner; floor; about one inch north of southern towel dispenser area; from horizontal surface of ceramic tile	Moderate	Very few	None	Moderate amounts of dark amorphous particles detected, not biological in appearance.	Background
05-14-10	21005001-9 TL13LS	Women's Restroom; within containment; ceiling plenum; ceiling framing along eastern partition wall above southern toilet area; from horizontal surface of metal	Moderate	Very few	None	Moderate amounts of dark amorphous particles detected, not biological in appearance.	Background
05-14-10	21005001-9 TL14LS	Men's Restroom; within containment; eastern partition wall cavity; about center; from horizontal surface of metal stud rail	Heavy	Very few	None	Moderate amounts of dark amorphous particles detected, not biological in appearance.	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+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 21005001-9
SURFACE FUNGAL GROWTH POTENTIALS
CLEARANCE
10TH FLOOR
SACRAMENTO, CALIFORNIA
MAY, 2010

Page 2

DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
05-14-10	21005001-9 TL15LS	Men's Restroom; within containment; northern towel dispenser area; northern partition wall cavity; about center; approximately two inches above floor; from vertical surface of metal stud	Moderate	Very few	None	None	Background
05-14-10	21005001-9 TL16LS	Men's Restroom; within containment; ceiling plenum; northwestern corner; ceiling framing; from horizontal surface of metal	Light	Very few	None	None	Background
05-17-10	21005001-9 TL03SM	Southeastern corner; southern punchout window area; within containment; windowsill; about center; from horizontal surface of metal	Light	Very few	None	None	Background
05-17-10	21005001-9 TL04SM	Southeastern corner; southern punchout window area; within containment; window jamb at eastern end; approximately three feet above floor; from vertical surface of metal	Light	Very few	None	None	Background
05-17-10	21005001-9 TL05SM	Room 1012; within containment; southeastern corner column area; eastern perimeter wall cavity; about one inch north of column; from horizontal surface of metal stud rail	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+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 21005001-9
SURFACE FUNGAL GROWTH POTENTIALS
CLEARANCE
10TH FLOOR
SACRAMENTO, CALIFORNIA
MAY, 2010

Page 3

DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
05-17-10	21005001-9 TL06SM	Room 1012; within containment; southeastern corner column area; southern partition wall cavity; about two feet west of column; approximately one inch above floor; from vertical surface of metal stud rail	Moderate	Very few	None	Moderate amounts of dark amorphous particles detected, not biological in appearance	Background
05-17-10	21005001-9 TL07SM	Southeastern corner; eastern punchout window area; within containment; windowsill; about center; from horizontal surface of metal	Light	Very few	None	None	Background
05-17-10	21005001-9 TL08SM	Southeastern corner; eastern punchout window area; within containment; window jamb at northern end; approximately three feet above floor; from vertical surface of metal	Light	Very few	None	None	Background
05-18-10	21005001-9 TL17LS	Storage Room 10C; within containment; floor; about center; from horizontal surface of vinyl floor tile	Light	Very few	None	None	Background
05-18-10	21005001-9 TL18LS	Storage Room 10C; within containment; ceiling plenum; ceiling framing between access hatch & eastern partition wall; about center; approximately one inch above floor; from vertical surface of metal	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+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 21005001-9
SURFACE FUNGAL GROWTH POTENTIALS
CLEARANCE
10TH FLOOR
SACRAMENTO, CALIFORNIA
MAY, 2010

Page 4

DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
05-18-10	21005001-9 TL19LS	Column J20 area; within containment; southern perimeter wall cavity; about six inches east of Column J20; approximately one inch above floor; from vertical surface of metal stud rail	Light	Very few	None	None	Background
05-18-10	21005001-9 TL20LS	Western hallway; northern electrical closet; within containment; northern portion; floor; about center; from horizontal surface of concrete	Moderate	Very few	None	None	Background
05-18-10	21005001-9 TL21LS	Western hallway; northern central electrical closet; within containment; western partition wall at northwestern corner; approximately four inches above floor; from vertical surface of gypsum board	Light	Very few	None	None	Background
05-18-10	21005001-9 TL22LS	Eastern hallway; northern electrical closet; within containment; electrical box at southwestern corner; approximately six inches above floor; from top horizontal surface of metal	Light	Very few	None	None	Background
05-18-10	21005001-9 TL23LS	Eastern hallway; southern electrical closet; within containment; entry door frame; at southeastern corner; approximately one inch above floor; from vertical surface of wood	Moderate	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+.



Report for:

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

Regarding: Project: 21005001-7
EML ID: 657922

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 05-13-2010

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

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. Syed Mehdi, Mr. Larry Sandhu
Re: 21005001-7

Date of Sampling: 05-11-2010
Date of Receipt: 05-12-2010
Date of Report: 05-13-2010

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‡: 2917887-1: Tape sample 21005001-7-TL01SM				
Moderate	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2917888-1: Tape sample 21005001-7-TL02SM				
Heavy	Very few	2+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 2+ <i>Acremonium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2917889-1: Tape sample 21005001-7-TL03SM				
Very Heavy	Very few	1+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2917890-1: Tape sample 21005001-7-TL04SM				
Very Heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 3+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2917891-1: Tape sample 21005001-7-TL02RE				
Moderate	Very few	4+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores) 2+ <i>Penicillium</i> species (spores, hyphae, conidiophores) 2+ <i>Acremonium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2917892-1: Tape sample 21005001-7-TL03RE				
Heavy	Very few	3+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2917893-1: Tape sample 21005001-7-TL01LS				
Heavy	Very few	4+ brown spore type, ID unknown (spores) 2+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)	None	Mold growth
Lab ID-Version: 2917894-1: Tape sample 21005001-7-TL02LS				
Very Heavy	Very few	1+ brown spore type, ID unknown (spores)	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‡: 2917895-1: Tape sample 21005001-7-TL03LS				
Heavy	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae) 1+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2917896-1: Tape sample 21005001-7-TL04LS				
Very Heavy	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth

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



Report for:

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

Regarding: Project: 21005001-7
EML ID: 658170

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 05-14-2010

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

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. Wesley Frey, Mr. Syed Mehdi
 Re: 21005001-7

Date of Sampling: 05-12-2010
 Date of Receipt: 05-13-2010
 Date of Report: 05-14-2010

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‡: 2919034-1: Tape sample 21005001-7-TL05SM				
Heavy	Very few	4+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores) 3+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) 3+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2919035-1: Tape sample 21005001-7-TL04RE				
Very Heavy	Very few	None	None	Normal trapping

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



Report for:

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

Regarding: Project: 21005001-7
EML ID: 659158

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 05-18-2010

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

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. Wesley Frey, Mr. Syed Mehdi
Re: 21005001-7

Date of Sampling: 05-14-2010
Date of Receipt: 05-17-2010
Date of Report: 05-18-2010

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‡: 2922910-1: Tape sample 21005001-7-TL06SM				
Heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 3+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae) 2+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2922911-1: Tape sample 21005001-7-TL07SM				
Very Heavy	Very few	3+ <i>Penicillium</i> species (spores, hyphae, conidiophores) 2+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 2+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)	None	Mold growth
Lab ID-Version: 2922912-1: Tape sample 21005001-7-TL08SM				
Heavy	Very few	4+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores) 2+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2922913-1: Tape sample 21005001-7-TL09SM				
Very Heavy	Very few	4+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) 4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2922914-1: Tape sample 21005001-7-TL10SM				
Very Heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2922915-1: Tape sample 21005001-7-TL11SM				
Heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2922916-1: Tape sample 21005001-7-TL05RE				
Heavy	Very few	4+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores)	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‡: 2922917-1: Tape sample 21005001-7-TL06RE				
Very Heavy	Very few	3+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 2+ <i>Phoma</i> / coelomycete (hyphae, pycnidia)	None	Mold growth
Lab ID-Version: 2922918-1: Tape sample 21005001-7-TL05LS				
Very Heavy	Very few	3+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 3+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)	None	Mold growth
Lab ID-Version: 2922919-1: Tape sample 21005001-7-TL06LS				
Very Heavy	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)	None	Mold growth
Lab ID-Version: 2922920-1: Tape sample 21005001-7-TL07LS				
Moderate	Very few	None	None	Normal trapping

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



Report for:

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

Regarding: Project: 21005001-7
EML ID: 660835

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 05-21-2010

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

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. Wesley Frey, Mr. Larry Sandhu
 Re: 21005001-7

Date of Sampling: 05-17-2010
 Date of Receipt: 05-20-2010
 Date of Report: 05-21-2010

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‡: 2930263-1: Tape sample 21005001-7-TL07RE				
Heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2930264-1: Tape sample 21005001-7-TL08RE				
Heavy	Very few	3+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2930265-1: Tape sample 21005001-7-TL09RE				
Very Heavy	Very few	2+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	Mold growth

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



Request For Analysis

Project Number/Purchase Order: 21005001-7Date Submitted: 05/11/10Project Contact: SNED MENDI / LARRY SANDHU

Turnaround Required: _____

Lab Destination: EM LABLab Contact: SAMPLE RECEIVING

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21005001-7 TLO1SM	N/A	TAPE.	DIRECT EXAM (QUALITATIVE)
TLO2SM			
TLO3SM			
TLO4SM			
TLO2RE			
TLO3RE			
TLO1LS			
TLO2LS			
TLO3LS			
TLO4LS			

Special Instructions: 10th Flr, Mantis Restaurant, Womani Restaurant
& Temutor Christchurch

1. Sampled by: Sus/Ry/Sudh on 05/11/10 @ 14:50 Received by: _____
 2. Relinquished by: Sus/Ry on 05/11/10 @ 16:30 Received by: SN S/12/10 10AM
 3. Relinquished by: _____ Received by: _____
 Please include signature, date, and time

Lab Use Only:



Request For Analysis

Project Number/Purchase Order: 21005001-7 Date Submitted: 05/14/10
 Project Contact: SYED MEHDI/KES FREY Turnaround Required: NORMAL
 Lab Destination: EM LAR Lab Contact: SAMPLE RECEIVING

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21005001-7 TLO6SM	N/A	TAPE	DIRECT EXAM (QUALITATIVE)
TLO7SM			
TLO8SM			
TLO9SM			
TL10SM			
TL11SM			
TL05RE			
TL06RE			
TL05LS			
TL06LS			
X TL07LS			

Special Instructions: SE carrier punchout windows, Storage loc
RM 1012 & Column T20 (note for statement)
Handwritten

1. Sampled by: Jin on 5/14/10 @ 10:30 Received by: _____
 2. Relinquished by: Jin on 5/14/10 @ 16:45 Received by: Handwritten on 5/14/10 @ 16:45
 3. Relinquished by: Handwritten 5/15/10 @ 12:00 Received by: Handwritten 5/15/10 18M

Please include signature, date, and time

Lab Use Only:



Report for:

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

Regarding: Project: 21005001 - 8 & 9
EML ID: 658548

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Spore trap analysis: 05-14-2010

Service SOPs: Spore trap analysis (I100000)

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

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Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Syed Mehdi
Re: 21005001 - 8 & 9

Date of Sampling: 05-13-2010
Date of Receipt: 05-13-2010
Date of Report: 05-14-2010

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21005001-8-TM01OUTSM		21005001-8-TM02SM	
Comments (see below)	None		None	
Lab ID-Version‡:	2920615-1		2920616-1	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27		
Arthrinium				
Ascospores*	4	210		
Aureobasidium				
Basidiospores*	43	2,300		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	18	960		
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora	1	13		
Oidium	1	13		
Other colorless				
Penicillium/Aspergillus types†	2	110	2	110
Pithomyces				
Rusts*	3	40		
Smuts*, Periconia, Myxomycetes*	5	67	1	13
Stachybotrys				
Stemphylium	1	13		
Torula	14	190		
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	3+		3+	
Hyphal fragments/m3	110		13	
Pollen/m3	210		< 13	
Skin cells (1-4+)	< 1+		1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		3,900		120

Comments:

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

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

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

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

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

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



Report for:

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

Regarding: Project: 21005001 - 8 & 9
EML ID: 658548

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 05-14-2010

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

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. Wesley Frey, Mr. Syed Mehdi
 Re: 21005001 - 8 & 9

Date of Sampling: 05-13-2010
 Date of Receipt: 05-13-2010
 Date of Report: 05-14-2010

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‡: 2920613-1: Tape sample 21005001-9-TL01SM				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2920614-1: Tape sample 21005001-9-TL02SM				
Light	Very few	None	None	Normal trapping

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Syed Mehdi
Re: 21005001 - 8 & 9

Date of Sampling: 05-13-2010
Date of Receipt: 05-13-2010
Date of Report: 05-14-2010

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 21005001-8-TM01OUTSM**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: May				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	27	7	27	320	57	7	27	230	55
Bipolaris/Drechslera group	-	7	13	150	15	7	13	130	13
Chaetomium	-	7	13	110	14	7	13	120	20
Cladosporium	960	40	510	7,400	95	53	620	7,100	97
Curvularia	-	7	13	320	9	7	13	230	7
Nigrospora	13	7	13	160	8	7	13	170	8
Penicillium/Aspergillus types	110	22	160	1,600	73	33	210	2,400	85
Stachybotrys	-	7	13	220	4	7	13	250	5
Stemphylium	13	7	13	80	6	7	13	67	9
Torula	190	7	13	170	13	7	13	150	12
Seldom found growing indoors**									
Ascospores	210	13	180	7,200	82	13	110	2,000	70
Basidiospores	2,300	13	270	9,000	92	13	210	8,300	92
Oidium	13	7	20	250	24	7	13	190	19
Rusts	40	7	20	270	24	7	13	260	27
Smuts, Periconia, Myxomycetes	67	7	53	910	74	8	40	510	68
§ TOTAL SPORES/m3	3,900								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

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

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

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

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Syed Mehdi
 Re: 21005001 - 8 & 9

Date of Sampling: 05-13-2010
 Date of Receipt: 05-13-2010
 Date of Report: 05-14-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21005001-8-TM01OUTSM:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria					7 - 27 - 410	50
Ascospores					13 - 160 - 4,800	76
Basidiospores					13 - 320 - 17,000	91
Cladosporium					27 - 480 - 9,100	92
Nigrospora					7 - 13 - 210	15
Oidium					7 - 13 - 230	14
Penicillium/Aspergillus types					20 - 200 - 2,500	77
Rusts					7 - 15 - 320	21
Smuts, Periconia, Myxomycetes					7 - 40 - 850	67
Stemphylium					7 - 13 - 67	5
Torula					7 - 13 - 170	11
Total						

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

Indoor Samples

Location: 21005001-8-TM02SM

% 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: N/A Result: N/A Critical value: N/A Inside Similar: N/A	Result: 0.3077	dF: 11 Result: 0.3364 Critical value: 0.5273 Outside Similar: No	Score: 117 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					110
Smuts, Periconia, Myxomycetes					13
Total					120

* 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.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Syed Mehdi
Re: 21005001 - 8 & 9

Date of Sampling: 05-13-2010
Date of Receipt: 05-13-2010
Date of Report: 05-14-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

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Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Syed Mehdi
 Re: 21005001 - 8 & 9

Date of Sampling: 05-13-2010
 Date of Receipt: 05-13-2010
 Date of Report: 05-14-2010

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21005001-8-TM01OUTSM

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					2	27
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					18	960
Curvularia					ND	< 13
Nigrospora					1	13
Penicillium/Aspergillus types†					2	110
Stachybotrys					ND	< 13
Stemphylium					1	13
Torula					14	190
Seldom found growing indoors**						
Ascospores††					4	210
Basidiospores††					43	2,300
Oidium					1	13
Rusts					3	40
Smuts, Periconia, Myxomycetes††					5	67
Total						3,933

Location: 21005001-8-TM02SM

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					ND	< 13
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					2	110
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††					ND	< 13
Basidiospores††					ND	< 13
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes††					1	13
Total						120

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			100
			100
			100
			117
			100
			100
			100
			100
			100
			102
Final MoldSCORE			117

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Syed Mehdi
Re: 21005001 - 8 & 9

Date of Sampling: 05-13-2010
Date of Receipt: 05-13-2010
Date of Report: 05-14-2010

MoldSCORE™: Spore Trap Report

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

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

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

††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.



Report for:

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

Regarding: Project: 21005001 - 8 & 9
EML ID: 659157

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 05-17-2010

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

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. Wesley Frey, Mr. Larry Sandhu
 Re: 21005001 - 8 & 9

Date of Sampling: 05-14-2010
 Date of Receipt: 05-17-2010
 Date of Report: 05-17-2010

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‡: 2922880-1: Tape sample 21005001-8-TL11LS				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2922881-1: Tape sample 21005001-8-TL12LS				
Moderate	Very few	None	Moderate amounts of dark amorphous particles detected, not biological in appearance.	Normal trapping
Lab ID-Version: 2922882-1: Tape sample 21005001-8-TL13LS				
Moderate	Very few	None	Moderate amounts of dark amorphous particles detected, not biological in appearance.	Normal trapping
Lab ID-Version: 2922883-1: Tape sample 21005001-8-TL14LS				
Heavy	Very few	None	Heavy amounts of dark amorphous particles detected, not biological in appearance.	Normal trapping
Lab ID-Version: 2922884-1: Tape sample 21005001-8-TL15LS				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2922885-1: Tape sample 21005001-8-TL16LS				
Light	Very few	None	None	Normal trapping

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



Report for:

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

Regarding: Project: 21005001 - 8 & 9
EML ID: 659157

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Spore trap analysis: 05-17-2010

Service SOPs: Spore trap analysis (I100000)

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

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Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21005001 - 8 & 9

Date of Sampling: 05-14-2010
Date of Receipt: 05-17-2010
Date of Report: 05-17-2010

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21005001-8-TM11OUTLS		21005001-8-TM12LS		21005001-8-TM13LS	
Comments (see below)	A		None		None	
Lab ID-Version‡:	2922886-1		2922887-1		2922888-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27				
Arthrinium						
Ascospores*	4	210				
Aureobasidium						
Basidiospores*	87	4,600				
Bipolaris/Drechslera group						
Botrytis						
Chaetomium	3	40				
Cladosporium	39	1,100				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium	1	13				
Other colorless						
Penicillium/Aspergillus types†	18	960	1	53		
Pithomyces						
Rusts*	5	67				
Smuts*, Periconia, Myxomycetes*	47	630			1	13
Stachybotrys						
Stemphylium						
Torula	1	13				
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		3+		3+	
Hyphal fragments/m3	67		< 13		< 13	
Pollen/m3	280		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		7,700		53		13

Comments:A) 25 of the raw count *Cladosporium* spores were present as a single clump.

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

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

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

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

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

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



Report for:

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

Regarding: Project: 21005001-8 and 9
EML ID: 659321

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 05-17-2010

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

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

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

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Syed Mehdi
 Re: 21005001-8 and 9

Date of Sampling: 05-17-2010
 Date of Receipt: 05-17-2010
 Date of Report: 05-17-2010

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‡: 2923519-1: Tape sample 21005001-9-TL03SM				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2923520-1: Tape sample 21005001-9-TL04SM				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2923521-1: Tape sample 21005001-9-TL05SM				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2923522-1: Tape sample 21005001-9-TL06SM				
Moderate	Very few	None	Moderate amounts of dark amorphous particles detected, not biological in appearance.	Normal trapping
Lab ID-Version: 2923523-1: Tape sample 21005001-9-TL07SM				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2923524-1: Tape sample 21005001-9-TL08SM				
Light	Very few	None	None	Normal trapping

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



Report for:

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

Regarding: Project: 21005001-8 and 9
EML ID: 659321

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 05-17-2010

Service SOPs: Spore trap analysis (I100000)

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

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Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Syed Mehdi
Re: 21005001-8 and 9

Date of Sampling: 05-17-2010
Date of Receipt: 05-17-2010
Date of Report: 05-17-2010

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21005001-8-TM03OUTSM		21005001-8-TM04SM		21005001-8-TM05SM		21005001-8-TM06SM	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	2923525-1		2923526-1		2923527-1		2923528-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	9	120						
Arthrinium								
Ascospores*	5	270	1	53				
Aureobasidium								
Basidiospores*	21	1,100	2	110	1	53		
Bipolaris/Drechslera group								
Botrytis	1	13						
Chaetomium								
Cladosporium	10	530			1	53		
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†	5	270					2	110
Pithomyces								
Rusts*	9	120						
Smuts*, Periconia, Myxomycetes*	29	390	2	27				
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	40		13		13		< 13	
Pollen/m3	120		13		< 13		13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		2,800		190		110		110

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for sample volumes when evaluating dust levels.
The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.



Report for:

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

Regarding: Project: 21005001-8 and 9
EML ID: 660139

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 05-19-2010

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

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. Wesley Frey, Mr. Larry Sandhu
 Re: 21005001-8 and 9

Date of Sampling: 05-18-2010
 Date of Receipt: 05-19-2010
 Date of Report: 05-19-2010

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‡: 2927312-1: Tape sample 21005001-9-TL17LS				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2927313-1: Tape sample 21005001-9-TL18LS				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2927314-1: Tape sample 21005001-9-TL19LS				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2927315-1: Tape sample 21005001-9-TL20LS				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2927316-1: Tape sample 21005001-9-TL21LS				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2927317-1: Tape sample 21005001-9-TL22LS				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2927318-1: Tape sample 21005001-9-TL23LS				
Moderate	Very few	None	None	Normal trapping

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



Report for:

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

Regarding: Project: 21005001-8 and 9
EML ID: 660139

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 05-19-2010

Service SOPs: Spore trap analysis (I100000)

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

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Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21005001-8 and 9

Date of Sampling: 05-18-2010
Date of Receipt: 05-19-2010
Date of Report: 05-19-2010

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21005001-8-TM14OUTLS		21005001-8-TM15LS		21005001-8-TM16LS		21005001-8-TM17LS	
Comments (see below)	None		None		None		A	
Lab ID-Version‡:	2927319-1		2927320-1		2927321-1		2927322-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	4	53			1	13		
Arthrinium								
Ascospores*	13	690						
Aureobasidium								
Basidiospores*	51	2,700	1	53	1	53		
Bipolaris/Drechslera group	4	53						
Botrytis								
Chaetomium								
Cladosporium	34	1,800						
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†	2	110						
Pithomyces								
Rusts*	5	67	2	27				
Smuts*, Periconia, Myxomycetes*	6	80						
Stachybotrys								
Stemphylium	6	80						
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		4+		4+		4+	
Hyphal fragments/m3	27		< 13		< 13		< 13	
Pollen/m3	550		< 13		< 13		13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		5,700		80		67		< 13

Comments: A) No spores detected.

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

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

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

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

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

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21005001-8 and 9

Date of Sampling: 05-18-2010
Date of Receipt: 05-19-2010
Date of Report: 05-19-2010

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21005001-8-TM18LS		21005001-8-TM19LS	
Comments (see below)	None		None	
Lab ID-Version‡:	2927323-1		2927324-1	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria				
Arthrinium				
Ascospores*				
Aureobasidium				
Basidiospores*			1	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	2	110	1	53
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other colorless				
Penicillium/Aspergillus types†				
Pithomyces				
Rusts*				
Smuts*, Periconia, Myxomycetes*			1	13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	3+		2+	
Hyphal fragments/m3	< 13		13	
Pollen/m3	< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		110		120

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.

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



HYGIENE TECH

Hygiene Technologies International, Inc.



000659157

3825 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: 21WSW1-889LS Date Submitted: 5/15/10
 Project Contact: L. Sanchez/W. Frick Turnaround Required: Some day
 Lab Destination: FINLAB Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21WSW1-8 T112LS	75L	Agar 1-6611	SPUS6 T8AP
↓ T113LS	↓	↓	↓
21WSW1-9 T114LS	N/A	Tape	Direct exam (Qualitative)
↓ T115LS	↓	↓	↓
↓ T116LS	↓	↓	↓
↓ T117LS	↓	↓	↓
↓ T118LS	↓	↓	↓
↓ T119LS	↓	↓	↓
↓ T120LS	↓	↓	↓
↓ T121LS	↓	↓	↓
↓ T122LS	↓	↓	↓
↓ T123LS	↓	↓	↓
↓ T124LS	↓	↓	↓
↓ T125LS	↓	↓	↓
↓ T126LS	↓	↓	↓

Special Instructions: _____

1. Sampled by: [Signature] on 5/14/10 Received by: _____
 2. Relinquished by: [Signature] on 5/15/10 @ 12:00 Received by: [Signature] 5/15/10 12PM
 3. Relinquished by: _____ Received by: _____
 Please include signature, date, and time

Lab Use Only:



Request For Analysis

Project Number/Purchase Order: 21W5001-889 Date Submitted: 5/18/10
 Project Contact: L. San Juan / W. Frey Turnaround Required: Same Day
 Lab Destination: EM LAB Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21W5001-8-TM14LS	75L	ANCA-C64	SPOSO T&P
TM15LS	↓	↓	↓
TM16LS	↓	↓	↓
TM17LS	↓	↓	↓
TM18LS	↓	↓	↓
TM19LS	↓	↓	↓
TM19LS	↓	↓	↓
21W5001-9 TL17LS	N/A	T&P	Direct exam (Qualitative)
TL18LS	↓	↓	↓
TL19LS	↓	↓	↓
TL20LS	↓	↓	↓
TL21LS	↓	↓	↓
TL22LS	↓	↓	↓
TL23LS	↓	↓	↓

Special Instructions: 10th Flr, Room 10C, Calverton 20, Western & Eastern
Electrical closets

1. Sampled by: Frederick 5/18/10 @ 14:34 Received by: _____
 2. Relinquished by: Frederick 5/18/10 @ 16:50 Received by: Brandon Iledem 5/18/10 @ 16:50
 3. Relinquished by: _____ Received by: _____
 Please include signature, date, and time

Lab Use Only: