



# HYGIENETECH

Hygiene Technologies International, Inc.

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October 4, 2010

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

Document No. 21002001.1

Attention: David Gau

Regarding: Fungal Growth Remediation Monitoring and Clearance Surveys  
18<sup>th</sup> Floor

Dear Mr. Gau:

On various dates in February and March of 2010, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) monitored fungal growth remediation activities and conducted fungal growth remediation clearances on the 18<sup>th</sup> 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 18<sup>th</sup> Floor remediation enclosures and additional air samples were collected at outdoor locations on each survey date 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 21002001-8 and 21002001-9.

Fungal growth remediation occurred in various areas of the 18<sup>th</sup> Floor including the Men's and Women's Restrooms, the northwestern drinking fountain areas, the Janitor Closet, Storage Room 18A, Storage Room 18B, File Room 1807, File Room 1813, and the eastern and southern punch-out window areas in the southeastern corner of the floor. During the remediation activities, HygieneTech observed and documented the removal of fungal growth-contaminated building materials and the decontamination of remaining materials including but not limited to the exposed interior wall cavity framing, proximate drywall not affected by fungal growth, ceilings, and subfloors. Additionally, cubicles, furniture, and metal shelving units were detail cleaned and HEPA vacuumed in File Rooms 1807 and 1813. All such work



was performed within controlled negative pressure containments that were monitored with the use of monometers. 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 18th Floor fungal growth remediation activities appear in the enclosed Table 21002001-7.

The surface assessment data collected during the remediation activities indicated fungal growth involving *Acremonium*, Ascospores, *Alternaria*, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, *Monodictys*-like species, *Penicillium*, *Stachybotrys*, and/or *Ulocladium* on various surfaces within the above mentioned remediation enclosures. Note that additional wall removal occurred involving Column J21 in the southwestern corner of the floor; however no evidence of fungal growth was found in 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 Closet, Storage Room 18A, and the northwestern drinking fountain containment areas 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 there 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. Some areas showing water staining but no evidence of fungal growth and some locations showing no water staining were also painted with the Foster® Full Defense™ product. Other water stained gypsum board materials in the southwestern punch-out window areas, the northwestern northern punch-out window area, the Column M17 area, the Column J20 area, and the Column J19 area were painted with regular paint.

On the clearance survey dates, the airborne total fungi data recorded indoors showed low levels of common fungi including *Alternaria*, basidiospores, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, smuts, and/or *Oidium*. 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 one percent of the outdoor datum on any of the survey dates.

Similarly, as shown in Table 21020001-9, 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 abated 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 therefore 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

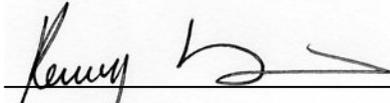


or more locations in the structure that were not specifically assessed during the surveys. And finally, the exposure data recorded during these surveys may not be sufficiently broad to adequately assess the suitability of the indoor air quality for all individuals, particularly those who are extremely sensitive to certain chemical and/or biological substances or for those individuals with immune system deficiencies. Although not expected, if persons entering the 18<sup>th</sup> 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.**



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Kenny K. Hsi, CIH  
Technical Director



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Board of Equalization  
450 N Street  
Sacramento, California 95814

**TABLE 21002001-7  
SURFACE FUNGAL GROWTH POTENTIALS  
ABATEMENT MONITORING  
18<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY, 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
02/05/10	21002001-7 TL01KT	Men's Restroom; within containment; sink cabinetry; within cabinetry interior; about center; from horizontal surface of wood	Light	Very few	4+ <i>Ascospores</i> (ascospores)  1+ <i>Ulocladium</i> species (spores, hyphae)	None	Fungal growth
02/05/10	21002001-7 TL02KT	Women's Restroom; within containment; western partition wall; about center; approximately one foot above floor; from vertical surface of gypsum board	Moderate	Very few	4+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores)  4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)  1+ <i>Monodictys</i> -like species (spores)  1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Fungal growth
02/05/10	21002001-7 TL03KT	Women's Restroom; within containment; sink cabinetry; reverse side; about center; approximately one foot above floor; from vertical surface of wood	Very Heavy	Very few	4+ <i>Monodictys</i> -like species (spores)  <1+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores)  <1+ <i>Chaetomium</i> species (ascospores, ascomata, hyphe)	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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02/05/10	21002001-7 TL04KT	Women's Restroom; within containment; within western partition wall cavity; elevator shaft eastern partition wall; about three feet north of southern partition wall; approximately two inches above floor; from vertical surface of gypsum board	Heavy	Very few	None	A few <i>Stachybotrys</i> spores detected.  Very few <i>Chaetomium</i> spores detected.	Possible settling from fungal growth in vicinity
2/5/10	21002001-7 TL05KT	Men's Restroom; within containment; walk-in cavity north of northern towel dispenser area; eastern partition wall; about center; approximately two feet above floor; from vertical surface of gypsum board	Light	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)  3+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
2/5/10	21002001-7 TL06KT	Men's Restroom; within containment; walk-in cavity north of northern towel dispenser; northern partition wall; about one foot west of eastern partition wall; approximately three inches 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
2/5/10	21002001-7 TL07KT	Janitor Closet; within containment; sink area; northern partition wall; about six inches west of eastern partition wall; approximately three inches above floor; from vertical surface of gypsum board	Heavy	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).

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2/5/10	21002001-7 TL08KT	Men's Restroom; within containment; walk-in cavity north of northern towel dispenser; eastern partition wall cavity; about center; approximately two feet above floor; from vertical surface of second layer gypsum board	Light	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)  <1+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
2/5/10	21002001-7 TL09KT	Women's Restroom; within containment; within western partition wall cavity; elevator shaft eastern partition wall; about three feet south of northern partition wall; approximately three feet above floor; from vertical surface of gypsum board	Very Heavy	Very few	None	A few <i>Chaetomium</i> spores detected.	Possible settling from fungal growth in vicinity
2/5/10	21002001-7 TL01LS	Men's Restroom; within containment; northern cabinetry area; eastern partition wall; approximately 18 inches above floor; from vertical surface of gypsum board	Heavy	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)  2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)  1+ <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).

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2/5/10	21002001-7 TL02LS	Men's Restroom; within containment; central cabinetry area; eastern partition wall; approximately 18 inches above floor; from vertical surface of gypsum board	Very Heavy	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)  3+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)  1+ <i>Acremonium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
2/6/10	21002001-7 TL03LS	Men's Restroom; within containment; walk-in cavity north of northern towel dispenser; reverse side of drinking fountain area southern partition wall; approximately five feet above floor; from vertical surface of gypsum board	Heavy	Very few	None	None	Background
2/6/10	21002001-7 TL04LS	Men's Restroom; within containment; eastern partition wall cavity at southern cabinetry area; ; approximately two feet above floor; from vertical surface of elevator shaft western partition wall gypsum board	Very Heavy	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).

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2/6/10	21002001-7 TL05LS	Women's Restroom; within containment; western partition wall cavity at northern cabinetry area; approximately two feet above floor; from vertical surface of elevator shaft eastern partition wall gypsum board	Very Heavy	Very few	None	None	Background
2/6/10	21002001-7 TL06LS	Janitor Closet; within containment; sink area; western partition wall at southern end; approximately one inch above floor; from vertical surface of gypsum board	Heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)  1+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	Very few <i>Stachybotrys</i> spores detected.	Fungal growth
2/6/10	21002001-7 TL07LS	Janitor closet; within containment; sink area; eastern partition wall cavity at northeast corner; approximately one inch above floor; from vertical surface of second layer gypsum board	Heavy	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
2/8/10	21002001-7 TL11KT	Storage Room 18A; within containment; ceiling plenum; northern partition wall; about center; approximately 18 inches above ceiling; from vertical surface of gypsum board	Very Heavy	Very few	3+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)  3+ <i>Cladosporium</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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2/8/10	21002001-7 TL12KT	Storage Room 18A; within containment; ceiling plenum; northern partition wall cavity; about center; approximately two feet above ceiling from vertical surface of second layer gypsum board	Heavy	Very few	None	None	Background
2/8/10	21002001-7 TL13KT	Storage Room 18A; within containment; eastern partition wall; about two feet north of southern partition wall; approximately one inch above floor: from reverse side of previously removed gypsum board	Heavy	Very few	None	None	Background
2/8/10	21002001-7 TL14KT	Storage Room 18A; within containment; eastern partition wall cavity; about center; approximately one foot above floor from vertical surface of second layer gypsum board	Heavy	Very few	2+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	Moderate amounts of <i>Ulocladium</i> spores detected.	Fungal growth
2/10/10	21002001-7 TL15KT	Storage Room 18B; within containment; eastern partition wall; about one foot north of southern partition wall; approximately one inch above floor; from vertical surface of gypsum board	Heavy	Very few	3+ <i>Alternaria</i> species (spores, hyphae, conidiophores)  <1+ <i>Cladosporium</i> (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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2/10/10	21002001-7 TL08LS	Column J21; within containment; southern partition wall contiguous with exterior window frame at eastern end; about center; approximately 18 inches above floor; from vertical surface of gypsum board	Very Heavy	Few	None	None	Background
2/10/10	21002001-7 TL09LS	Column J21; within containment; southern partition wall; about five feet above floor; from reverse side of gypsum board	Very Heavy	Very few	None	None	Background
2/10/10	21002001-7 TL10LS	Column J21; within containment; southern partition wall at western end; about center; approximately 18 inches above windowsill; from vertical surface of gypsum board	Very Heavy	Very few	None	None	Background
02/10/10	21002001-7 B01LS	Column J21; within containment; southern partition wall cavity; between southern partition wall and exterior window frame; insulation	Insulation	Very few	None	None	Background
2/11/10	21002001-7 TL16KT	Southeastern corner; eastern punch-out window; within containment; windowsill at southern end; from horizontal surface of gypsum board beneath corner bead	Light	Very few	3+ <i>Penicillium</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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2/11/10	21002001-7 TL17KT	Southeastern corner; eastern punch-out window; within containment; windowsill at northern end; from reverse side of previously removed gypsum board	Heavy	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)  2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)  <1+ Colorless spores typical of <i>Penicillium</i> / <i>Aspergillus</i> (spores, hyphae)	None	Fungal growth
2/11/10	21002001-7 TL18KT	Southeastern corner; eastern punch-out window area; within containment; eastern perimeter wall; about two feet north of Column J18; approximately five feet above floor; from reverse side of previously removed gypsum board	Very Heavy	Very Few	None	Heavy amounts of dark amorphous particles detected, not biological in appearance	Background
2/12/10	21002001-7 TL20	Northwestern drinking fountain area; within containment; western partition wall at southwestern corner; approximately one inch above floor; from vertical surface of gypsum board	Heavy	Few	<1+ <i>Cladosporium</i> species (spores, hyphae)	None	Minimal 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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2/12/10	21002001-7 TL21	Northwestern drinking fountain area; within containment; eastern partition wall cavity; about six inches north of southern partition wall cavity; approximately three feet above floor; from vertical surface of second layer gypsum board	Heavy	Very Few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)  4+ <i>Acremonium</i> species (spores, hyphae, conidiophores)  1+ <i>Cladosporium</i> Species (spores, hyphae, conidiophores)	None	Fungal growth
2/12/10	21002001-7 TL22	Northwestern drinking fountain area; within containment; southern partition wall cavity; about six inches west of eastern partition wall; approximately three feet above floor; from reverse side of northern partition wall gypsum board	Heavy	Few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)  3+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
2/15/10	21002001-7 TL01WF	Southeastern corner; southern punch-out window area; within containment; southern perimeter wall; about two feet west of window; approximately two inches above floor; from reverse side of previously removed gypsum board	Heavy	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).

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2/15/10	21002001-7 TL02WF	Southeastern corner; southern punch-out window; within containment; windowsill; about center; from reverse side of gypsum board	Heavy	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)  3+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)  2+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)	None	Fungal growth
2/15/10	21002001-7 TL03WF	Southeastern corner; southern punch-out window area; within containment; southern perimeter wall above ceiling line; about six inches east of window; from previously removed gypsum board paper	Heavy	Very few	None	Very few <i>Chaetomium</i> spores detected	Possible settling from fungal growth in vicinity
2/27/10	21002001-7 TL32LS	Room 1807; within containment; about five feet north of southern entry door; from reverse side of previously removed carpet	Very Heavy	Very few	None	Moderate amounts of dark amorphous particles detected, not biological in appearance	Background
2/27/10	21002001-7 TL33LS	Room 1807; within containment; about seven feet north of southern entry door; from reverse side of previously removed carpet	Heavy	Very few	3+ 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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TABLE 21002001-7  
SURFACE FUNGAL GROWTH POTENTIALS  
ABATEMENT MONITORING  
18<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY, 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
2/28/10	21002001-7 TL101WF	Room 1813; within containment; northwestern portion; from reverse side of previously removed carpet	Moderate	Very few	None	None	Background
2/28/10	21002001-7 TL102WF	Room 1813; within containment; southeastern corner; from reverse side of previously removed carpet	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+.

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



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

**TABLE 21002001-8  
AIRBORNE TOTAL FUNGI RESULTS  
CLEARANCE  
18<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY AND MARCH, 2010**

Page 1

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

SAMPLE NUMBER	21002001-8 TM01OUTLS	21002001-8 TM02LS	21002001-8 TM03OUTLS	21002001-8 TM04LS
<b>SAMPLING LOCATION/ACTIVITIES</b>	Outdoors; garage; southwestern corner; about ten feet southwest of parking booth; approximately five feet above floor/Normal outdoor activities	Women's Restroom; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Outdoors; southwestern corner of the building; approximately five feet above floor/Normal outdoor activities	Men's Restroom; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only
<b>DATE</b>	02-08-10	02-08-10	02-09-10	02-09-10
<b>START/STOP</b>	11:19:00/11:24:00	11:47:00/11:52:00	14:07:00/14:12:00	14:30:00/14:35:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13			
Ascospores	1,300	53	3,200	53
Basidiospores	28,000	160	6,200	210
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	210	110	480	53
Curvularia				
Epicoccum				
Nigrospora				
Other brown				
Penicillium/Aspergillus types	53		160	
Pithomyces				
Rusts				
Smuts, Periconia, Myxomycetes	53	13	13	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	53	<13	<13	<13
Background debris*	2+	2+	2+	2+
<b>TOTAL**</b>	29,000	330	10,000	320

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

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

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



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

**TABLE 21002001-8  
AIRBORNE TOTAL FUNGI RESULTS  
CLEARANCE  
18<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY AND MARCH, 2010**

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

SAMPLE NUMBER	21002001-8 TM05LS	21002001-8 TM06OUTLS	21002001-8 TM07LS	21002001-8 TM08LS
<b>SAMPLING LOCATION/ACTIVITIES</b>	Janitor closet; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Outdoors; garage; southwestern corner; about ten feet southwest of parking booth; approximately five feet above floor/Normal outdoor activities	Mail Room 18B; within containment; northeastern corner; approximately five feet above floor/Post abatement; sampling activities only	Storage Room 18A; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only
<b>DATE</b>	02-09-10	02-11-10	02-11-10	02-11-10
<b>START/STOP</b>	14:48:00/14:53:00	10:15:00/10:20:00	10:35:00/10:40:00	10:51:00/10:56:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	
Ascospores		320		
Basidiospores	53	6,100	53	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		210		
Curvularia				
Epicoccum				
Nigrospora				
Oidium		27		
Other brown				
Penicillium/Aspergillus types		750		
Pithomyces				
Rusts				
Smuts, Periconia, Myxomycetes		13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background debris*	2+	2+	2+	3+
<b>TOTAL **</b>	53	7,400	67	<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+.

\*\*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 21002001-8  
AIRBORNE TOTAL FUNGI RESULTS  
CLEARANCE  
18<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY AND MARCH, 2010**

Page 3

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

SAMPLE NUMBER	21002001-8 TM06OUTWF	21002001-8 TM07WF	21002001-8 TM08WF	21002001-8 TM01OUTKT
<b>SAMPLING LOCATION/ACTIVITIES</b>	Outdoors; about 25 feet east of building; approximately five feet above floor/Normal outdoor activities	Southeastern corner; eastern punch-out window area; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Column J21 area; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Outdoors; garage; southwestern corner; about ten feet southwest of parking booth; approximately five feet above floor/Normal outdoor activities
<b>DATE</b>	02-15-10	02-15-10	02-15-10	02-16-10
<b>START/STOP</b>	10:38:00/10:43:00	10:48:00/10:53:00	11:04:00/11:09:00	14:33:00/14:38:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores	370			270
Basidiospores	46,000	160	160	9,000
Bipolaris/Drechslera group	13			27
Botrytis				27
Chaetomium				
Cladosporium	480			430
Curvularia				
Epicoccum	27			
Nigrospora	13			
Oidium	53			27
Other brown				
Penicillium/Aspergillus types	750		53	
Pithomyces				
Rusts				
Smuts, Periconia, Myxomycetes	53			40
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	13
Background debris*	2+	2+	3+	2+
<b>TOTAL **</b>	48,000	160	210	9,800

\*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 21002001-8  
AIRBORNE TOTAL FUNGI RESULTS  
CLEARANCE  
18<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY AND MARCH, 2010**

Page 4

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

SAMPLE NUMBER	21002001-8 TM02KT	21002001-8 TM03KT	21003001-8 TM01OUTWF	21003001-8 TM02WF
<b>SAMPLING LOCATION/ACTIVITIES</b>	Northwestern drinking fountain area; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Southeastern corner; southern punch-out window; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Outdoors; about 20 feet southwest of building; approximately five feet above floor/Normal outdoor activities	Room 1807; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only
<b>DATE</b>	02-16-10	02-16-10	03-01-10	03-01-10
<b>START/STOP</b>	14:56:00/15:01:00	15:15:00/15:20:00	11:12:00/11:17:00	11:33:00/11:38:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores			370	
Basidiospores		53	30,000	110
Bipolaris/Drechslera group			13	
Botrytis				
Chaetomium				
Cladosporium			1,200	
Curvularia				
Epicoccum			13	
Nigrospora				
Oidium			110	
Other brown				
Penicillium/Aspergillus types			320	53
Pithomyces				
Rusts				
Smuts, Periconia, Myxomycetes			13	
Stachybotrys				
Stemphylium			13	
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background debris*	2+	2+	2+	2+
<b>TOTAL **</b>	<13	53	32,000	160

\*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 21002001-8  
AIRBORNE TOTAL FUNGI RESULTS  
CLEARANCE  
18<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY AND MARCH, 2010

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

SAMPLE NUMBER	21003001-8 TM03WF			
SAMPLING LOCATION/ACTIVITIES	Room 1813; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	This column intentionally left blank	This column intentionally left blank	This column intentionally left blank
DATE	03-01-10			
START/STOP	11:49:00/11:54:00			
SAMPLE TIME	5 minutes			
Alternaria				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts, Periconia, Myxomycetes				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13			
Background debris*	2+			
<b>TOTAL**</b>	<b>&lt;13</b>			

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

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

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



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

TABLE 21002001-9  
SURFACE FUNGAL GROWTH POTENTIALS  
CLEARANCE  
18<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY AND MARCH, 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
02-08-10	21002001-9 TL01LS	Women's Restroom; within containment; southern towel dispenser area; subfloor; about center; from horizontal surface of concrete	Light	Very few	None	None	Background
02-08-10	21002001-9 TL02LS	Women's Restroom; within containment; western partition wall cavity; about center; approximately two inches above floor; from vertical surface of metal stud	Light	Very few	None	None	Background
02-09-10	21002001-9 TL03LS	Men's Restroom; within containment; northern towel dispenser area; subfloor; about center; from horizontal surface of concrete	Heavy	Very few	None	None	Background
02-09-10	21002001-9 TL04LS	Men's Restroom; within containment; eastern partition wall cavity; about center; approximately 12 inches above floor; from vertical surface of copper pipe	Moderate	Very few	None	None	Background
02-09-10	21002001-9 TL05LS	Janitor closet; within containment; sink area; subfloor; about center; from horizontal surface of concrete	Heavy	Very few	None	None	Background
02-09-10	21002001-9 TL06LS	Janitor closet; within containment; sink area; western partition wall cavity; approximately one inch above floor; from vertical 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 21002001-9  
SURFACE FUNGAL GROWTH POTENTIALS  
CLEARANCE  
18<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY AND MARCH, 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
02-11-10	21002001-9 TL07LS	Mail Room 18B; within containment; northeastern corner; floor; about 18 inches northwest of southeastern corner; from horizontal surface of vinyl tile	Moderate	Very few	None	None	Background
02-11-10	21002001-9 TL08LS	Mail Room 18B; within containment; southern wall; about three feet west of eastern partition wall; approximately one inch above floor; from vertical surface of gypsum board	Moderate	Very few	None	None	Background
02-11-10	21002001-9 TL09LS	Storage Room 18A; within containment; southern partition wall; west of entry door; about center; approximately two inches above floor; from vertical surface of gypsum board	Moderate	Very few	None	None	Background
02-11-10	21002001-9 TL10LS	Storage Room 18A; within containment; ceiling plenum; northeastern corner; about two inches north of ceiling access hatch; from reverse side of gypsum board	Moderate	Very few	None	None	Background
02-15-10	21002001-9 TL21WF	Southeastern corner; eastern punch-out window; within containment; windowsill; about center; from horizontal 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 21002001-9  
SURFACE FUNGAL GROWTH POTENTIALS  
CLEARANCE  
18<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY AND MARCH, 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
02-15-10	21002001-9 TL22WF	Southeastern corner; eastern punch-out window; within containment; subfloor; adjacent to window; from horizontal surface of concrete	Light	Very few	None	None	Background
02-15-10	21002001-9 TL23WF	Column J21 area; within containment; windowsill behind eastern portion of Column J21; from horizontal surface of gypsum board	Light	Very few	None	None	Background
02-16-10	21002001-9 TL01KT	Northwestern drinking fountain area; within containment; southern partition wall cavity; about center; approximately one inch above floor; from vertical surface of metal stud	Light	Very few	None	None	Background
02-16-10	21002001-9 TL02KT	Northwestern drinking fountain area; within containment; subfloor; within southern partition wall cavity; about one foot west of eastern partition wall; from horizontal surface of concrete	Light	Very few	None	None	Background
02-16-10	21002001-9 TL03KT	Southeastern corner; southern punch-out window area; within containment; windowsill; 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 21002001-9  
SURFACE FUNGAL GROWTH POTENTIALS  
CLEARANCE  
18<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY AND MARCH, 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
02-16-10	21002001-9 TL04KT	Southeastern corner; southern punch-out window area; within containment; southern perimeter window; windowsill; about center; from horizontal surface of concrete	Light	Very few	None	None	Background
03-01-10	21003001-9 TL01WF	Room 1807; within containment; ceiling plenum; about center; from horizontal surface of T-bar railing	Light	Very few	None	None	Background
03-01-10	21003001-9 TL02WF	Room 1807; within containment; subfloor; southeast corner; from horizontal surface of concrete	Light	Very few	None	None	Background
03-01-10	21003001-9 TL03WF	Room 1807; within containment; Cubicle 4; western exterior cubicle partition; approximately three feet above the floor; from vertical surface of fabric	Light	Very few	None	None	Background
03-01-10	21003001-9 TL04WF	Room 1813; within containment; ceiling plenum; eastern side of room; from horizontal surface of the reverse side of the supply register	Light	Very few	None	None	Background
03-01-10	21003001-9 TL05WF	Room 1813; within containment; floor; southwestern corner; from horizontal surface of concrete	Light	Very few	None	None	Background
03-01-10	21003001-9 TL06WF	Room 1813; within containment; desk; about center; from top horizontal surface of wood	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 21002001-9  
SURFACE FUNGAL GROWTH POTENTIALS  
CLEARANCE  
18<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY AND MARCH, 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
03-01-10	21003001-9 TL07WF	Items previously cleaned in Room 1813 and stored in Cubicle 106; shelving; from vertical surface of metal	Light	Very few	None	None	Background
03-03-10	21003001-9 TL01LS	Items previously cleaned in Room 1813 and stored in Room 2106; office desk; about center; from horizontal surface of wood	Light	Very few	None	None	Background
03-03-10	21003001-9 TL02LS	Items previously cleaned in Room 1813 and stored in Room 2106; plastic file holder; from vertical surface of plastic	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+.



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: 21002001-7  
EML ID: 624213

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 02-09-2010

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

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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

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21002001-7

Date of Sampling: 02-05-2010  
 Date of Receipt: 02-08-2010  
 Date of Report: 02-09-2010

**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‡: 2765945-1: Tape sample 21002001-7-TL01LS				
Heavy	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) 1+ <i>Acremonium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2765946-1: Tape sample 21002001-7-TL02LS				
Very Heavy	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae) 3+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae) 1+ <i>Acremonium</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".



Report for:

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

---

Regarding: Project: 21002001-7  
EML ID: 624207

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 02-09-2010

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

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Ken Tse  
 Re: 21002001-7

Date of Sampling: 02-05-2010  
 Date of Receipt: 02-08-2010  
 Date of Report: 02-09-2010

**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‡: 2765934-1: Tape sample 21002001-7-TL01KT				
Light	Very few	4+ Ascospores (ascospores) 1+ <i>Ulocladium</i> species (spores, hyphae)	None	Mold growth
Lab ID-Version: 2765935-1: Tape sample 21002001-7-TL02KT				
Moderate	Very few	4+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores) 4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae) 1+ <i>Monodictys</i> -like species (spores) 1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2765936-1: Tape sample 21002001-7-TL03KT				
Very Heavy	Very few	4+ <i>Monodictys</i> -like species (spores) < 1+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores) < 1+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)	None	Mold growth
Lab ID-Version: 2765937-1: Tape sample 21002001-7-TL04KT				
Heavy	Very few	None	A few <i>Stachybotrys</i> spores detected. Very few <i>Chaetomium</i> spores detected.	Mold growth in vicinity?
Lab ID-Version: 2765938-1: Tape sample 21002001-7-TL05KT				
Light	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 3+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2765939-1: Tape sample 21002001-7-TL06KT				
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: 2765940-1: Tape sample 21002001-7-TL07KT				
Heavy	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‡: 2765941-1: Tape sample 21002001-7-TL08KT				
Light	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) < 1+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2765942-1: Tape sample 21002001-7-TL09KT				
Very Heavy	Very few	None	A few <i>Chaetomium</i> spores detected.	Mold growth in vicinity?

‡ 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

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Regarding: Project: 21002001-7  
EML ID: 624216

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 02-09-2010

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

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Document Number: 200091 - Revision Number: 5

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21002001-7

Date of Sampling: 02-06-2010  
 Date of Receipt: 02-08-2010  
 Date of Report: 02-09-2010

**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‡: 2765957-1: Tape sample 21002001-7-TL03LS				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2765958-1: Tape sample 21002001-7-TL04LS				
Very Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2765959-1: Tape sample 21002001-7-TL05LS				
Very Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2765960-1: Tape sample 21002001-7-TL06LS				
Heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 1+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	Very few <i>Stachybotrys</i> spores detected.	Mold growth
Lab ID-Version: 2765961-1: Tape sample 21002001-7-TL07LS				
Heavy	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)	None	Mold growth

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Report for:

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

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Regarding: Project: 21002001-7  
EML ID: 624760

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 02-10-2010

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

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Document Number: 200091 - Revision Number: 5

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Ken Tse  
 Re: 21002001-7

Date of Sampling: 02-08-2010  
 Date of Receipt: 02-09-2010  
 Date of Report: 02-10-2010

**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‡: 2768133-1: Tape sample 21002001-7-TL11KT				
Very Heavy	Very few	3+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 3+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) < 1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2768134-1: Tape sample 21002001-7-TL12KT				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2768135-1: Tape sample 21002001-7-TL13KT				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2768136-1: Tape sample 21002001-7-TL14KT				
Heavy	Very few	2+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	Moderate amounts of <i>Ulocladium</i> spores detected.	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. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21002001-7  
EML ID: 625390

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 02-11-2010

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

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Document Number: 200091 - Revision Number: 5

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21002001-7

Date of Sampling: 02-10-2010  
 Date of Receipt: 02-10-2010  
 Date of Report: 02-11-2010

**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‡: 2770570-1: Tape sample 21002001-7-TL15KT				
Heavy	Very few	3+ <i>Alternaria</i> species (spores, hyphae, conidiophores) < 1+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2770571-1: Tape sample 21002001-7-TL08LS				
Very Heavy	Few	None	None	Normal trapping
Lab ID-Version: 2770572-1: Tape sample 21002001-7-TL09LS				
Very Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2770573-1: Tape sample 21002001-7-TL10LS				
Very Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2770569-1: Bulk sample 21002001-7-B01LS				
Insulation	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. Ken Tse**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21002001-7  
EML ID: 625783

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 02-12-2010

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

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Document Number: 200091 - Revision Number: 5

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Ken Tse  
 Re: 21002001-7

Date of Sampling: 02-11-2010  
 Date of Receipt: 02-11-2010  
 Date of Report: 02-12-2010

**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‡: 2772684-1: Tape sample 21002001-7-TL16KT				
Light	Very few	3+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2772685-1: Tape sample 21002001-7-TL17KT				
Heavy	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) < 1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2772686-1: Tape sample 21002001-7-TL18KT				
Very Heavy	Very few	None	Heavy amounts of dark amorphous particles detected, not biological in appearance.	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. Larry Sandhu, Mr. Ken Tse**  
**Hygiene Technologies International, Inc.: Northern California**  
2365 Oak Harbour Drive  
#237  
Sacramento, CA 95833

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Regarding: Project: 21002001-7  
EML ID: 626508

Approved by:

Lab Manager  
Dr. Kamashwaran Ramanathan

Dates of Analysis:

Direct microscopic exam (Qualitative): 02-16-2010

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

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Document Number: 200091 - Revision Number: 5

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Larry Sandhu, Mr. Ken Tse  
 Re: 21002001-7

Date of Sampling: 02-12-2010  
 Date of Receipt: 02-15-2010  
 Date of Report: 02-16-2010

**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‡: 2776854-1: Tape sample 21002001-7-TL20				
Heavy	Few	< 1+ <i>Cladosporium</i> species (spores, hyphae)	None	Minimal mold growth
Lab ID-Version: 2776855-1: Tape sample 21002001-7-TL21				
Heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 4+ <i>Acremonium</i> species (spores, hyphae, conidiophores) 1+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2776856-1: Tape sample 21002001-7-TL22				
Heavy	Few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 3+ <i>Cladosporium</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".



Report for:

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

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Regarding: Project: 21002001-7  
EML ID: 626723

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 02-16-2010

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

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Document Number: 200091 - Revision Number: 5

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey  
 Re: 21002001-7

Date of Sampling: 02-15-2010  
 Date of Receipt: 02-15-2010  
 Date of Report: 02-16-2010

**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‡: 2777328-1: Tape sample 21002001-7-TL01WF				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2777329-1: Tape sample 21002001-7-TL02WF				
Heavy	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 3+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae) 2+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)	None	Mold growth
Lab ID-Version: 2777330-1: Tape sample 21002001-7-TL03WF				
Heavy	Very few	None	Very few <i>Chaetomium</i> spores detected.	Mold growth in vicinity?

‡ 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

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Regarding: Project: 21002001-7  
EML ID: 631175

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 03-02-2010

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

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Document Number: 200091 - Revision Number: 5

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21002001-7

Date of Sampling: 02-26-2010  
 Date of Receipt: 03-01-2010  
 Date of Report: 03-02-2010

**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‡: 2795745-1: Tape sample 21002001-7-TL31LS				
Heavy	Very few	4+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores) < 1+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2795746-1: Tape sample 21002001-7-TL32LS				
Very Heavy	Very few	None	Moderate amounts of dark amorphous particles detected, not biological in appearance.	Normal trapping
Lab ID-Version: 2795747-1: Tape sample 21002001-7-TL33LS				
Heavy	Very few	3+ 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. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21002001-7  
EML ID: 631176

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 03-02-2010

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

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Document Number: 200091 - Revision Number: 5

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21002001-7

Date of Sampling: 02-28-2010  
 Date of Receipt: 03-01-2010  
 Date of Report: 03-02-2010

**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‡: 2795748-1: Tape sample 21002001-7-TL101WF				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2795749-1: Tape sample 21002001-7-TL102WF				
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

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Regarding: Project: 21003001-9  
EML ID: 632741

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 03-04-2010

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

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Document Number: 200091 - Revision Number: 5

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21003001-9

Date of Sampling: 03-03-2010  
 Date of Receipt: 03-04-2010  
 Date of Report: 03-04-2010

**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‡: 2802362-1: Tape sample 21003001-9-TL01LS				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2802363-1: Tape sample 21003001-9-TL02LS				
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".



# HYGIENE TECH

Hygiene Technologies International, Inc.



000624207

3825 Del Ar  
Torrance, California 90503-1643  
(310) 370-8370  
(310) 370-2474 FAX  
www.hygienetech.com

## Request For Analysis

Project Number/Purchase Order: 21002001-7 Date Submitted: 2/6/10  
 Project Contact: KENTSE (W. Fry) Turnaround Required: 24 hrs  
 Lab Destination: EM Lab Lab Contact: Sample Recy

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21002001-7 T101KT	N/A	TAPE	Direct Exam (Qualitative)
T102KT	↓	↓	↓
T103KT	↓	↓	↓
T104KT	↓	↓	↓
T105KT	↓	↓	↓
T106KT	↓	↓	↓
T107KT	↓	↓	↓
T108KT	↓	↓	↓
✓ T109KT	↓	↓	↓

Special Instructions: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

1. Sampled by: KENTSE 11AM 2/5/10 Received by: \_\_\_\_\_  
 2. Relinquished by: KENTSE 3:30 2/5/10 Received by: [Signature] on 2/5/10 @ 15:30  
 3. Relinquished by: [Signature] on 2/6/10 @ 10:00 Received by: [Signature] 2/8/10 @ 0800  
 Please include signature, date, and time

Lab Use Only:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_























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: 21002001-8 & 9  
EML ID: 624474

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 02-09-2010

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

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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

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21002001-8 & 9

Date of Sampling: 02-08-2010  
 Date of Receipt: 02-08-2010  
 Date of Report: 02-09-2010

**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‡: 2766969-1: Tape sample 21002001-9-TL01LS				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2766970-1: Tape sample 21002001-9-TL02LS				
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

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Regarding: Project: 21002001-8 & 9  
EML ID: 624474

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Spore trap analysis: 02-09-2010

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

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21002001-8 & 9

Date of Sampling: 02-08-2010  
 Date of Receipt: 02-08-2010  
 Date of Report: 02-09-2010

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

Location:	21002001-8-TM01OUTLS		21002001-8-TM02LS	
Comments (see below)	None		None	
Lab ID-Version‡:	2766971-1		2766972-1	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13		
Arthrinium				
Ascospores*	25	1,300	1	53
Aureobasidium				
Basidiospores*	52	28,000	3	160
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	4	210	2	110
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other colorless				
Penicillium/Aspergillus types†	1	53		
Pithomyces				
Rusts*				
Smuts*, Periconia, Myxomycetes*	4	53	1	13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	2+		2+	
Hyphal fragments/m3	53		< 13	
Pollen/m3	170		< 13	
Skin cells (1-4+)	< 1+		1+	
Sample volume (liters)	75		75	
<b>§ TOTAL SPORES/m3</b>		<b>29,000</b>		<b>330</b>

**Comments:**

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



Report for:

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

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Regarding: Project: 21002001-8 and 9  
EML ID: 625054

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 02-10-2010

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

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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

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21002001-8 and 9

Date of Sampling: 02-09-2010  
 Date of Receipt: 02-09-2010  
 Date of Report: 02-10-2010

**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‡: 2769153-1: Tape sample 21002001-9-TL03LS				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2769154-1: Tape sample 21002001-9-TL04LS				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2769155-1: Tape sample 21002001-9-TL05LS				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2769156-1: Tape sample 21002001-9-TL06LS				
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

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Regarding: Project: 21002001-8 and 9  
EML ID: 625054

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:  
Spore trap analysis: 02-10-2010

Service SOPs: Spore trap analysis (I100000)

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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

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Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
Re: 21002001-8 and 9

Date of Sampling: 02-09-2010  
Date of Receipt: 02-09-2010  
Date of Report: 02-10-2010

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

Location:	21002001-8-TM03OUTLS		21002001-8-TM04LS		21002001-8-TM05LS	
Comments (see below)	None		None		None	
Lab ID-Version‡:	2769157-1		2769158-1		2769159-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Arthrinium						
Ascospores*	60	3,200	1	53		
Aureobasidium						
Basidiospores*	117	6,200	4	210	1	53
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium	9	480	1	53		
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†	3	160				
Pithomyces						
Rusts*						
Smuts*, Periconia, Myxomycetes*	1	13				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>10.000</b>		<b>320</b>		<b>53</b>

**Comments:**

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



Report for:

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

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Regarding: Project: 21002001-8 & 9  
EML ID: 625637

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Spore trap analysis: 02-12-2010

Service SOPs: Spore trap analysis (I100000)

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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

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Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
Re: 21002001-8 & 9

Date of Sampling: 02-11-2010  
Date of Receipt: 02-11-2010  
Date of Report: 02-12-2010

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

Location:	21002001-8-TM06OUTLS		21002001-8-TM07LS		21002001-8-TM08LS	
Comments (see below)	None		None		A	
Lab ID-Version‡:	2771766-1		2771767-1		2771768-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13		
Arthrinium						
Ascospores*	6	320				
Aureobasidium						
Basidiospores*	114	6,100	1	53		
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium	4	210				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium	2	27				
Other colorless						
Penicillium/Aspergillus types†	14	750				
Pithomyces						
Rusts*						
Smuts*, Periconia, Myxomycetes*	1	13				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		3+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	120		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+	
Sample volume (liters)	75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>7,400</b>		<b>67</b>		<b>&lt; 13</b>

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

---

Regarding: Project: 21002001-8 & 9  
EML ID: 625637

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 02-12-2010

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

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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: 21002001-8 & 9

Date of Sampling: 02-11-2010  
 Date of Receipt: 02-11-2010  
 Date of Report: 02-12-2010

**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‡: 2771762-1: Tape sample 21002001-9-TL07LS				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2771763-1: Tape sample 21002001-9-TL08LS				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2771764-1: Tape sample 21002001-9-TL09LS				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2771765-1: Tape sample 21002001-9-TL10LS				
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**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21002001-8  
EML ID: 626648

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:  
Spore trap analysis: 02-15-2010

Service SOPs: Spore trap analysis (I100000)

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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

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Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wesley Frey  
Re: 21002001-8

Date of Sampling: 02-15-2010  
Date of Receipt: 02-15-2010  
Date of Report: 02-15-2010

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

Location:	21002001-8-TM06OUTWF		21002001-8-TM07WF		21002001-8-TM08WF	
Comments (see below)	A		B		B	
Lab ID-Version‡:	2776967-1		2776968-1		2776969-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Arthrinium						
Ascospores*	7	370				
Aureobasidium						
Basidiospores*	83	46,000	3	160	3	160
Bipolaris/Drechslera group	1	13				
Botrytis						
Chaetomium						
Cladosporium	9	480				
Curvularia						
Epicoccum	2	27				
Fusarium						
Myrothecium						
Nigrospora	1	13				
Oidium	4	53				
Penicillium/Aspergillus types†	26	750			1	53
Pithomyces						
Rusts*						
Smuts*, Periconia, Myxomycetes*	4	53				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Background debris (1-4+)††	2+		2+		3+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	200		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+	
Sample volume (liters)	75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>48,000</b>		<b>160</b>		<b>210</b>

**Comments:** A) 16 of the raw count *Penicillium/Aspergillus* type spores were present as a single clump. Analysis of replicate sample is delayed. B) Analysis of replicate sample is delayed.

\* 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**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21002001-9  
EML ID: 626647

Approved by:

Lab Manager  
Malcolm Moody

REVISED REPORT

Dates of Analysis:  
Direct microscopic exam (Qualitative): 02-16-2010

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

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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

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey  
 Re: 21002001-9

Date of Sampling: 02-15-2010  
 Date of Receipt: 02-15-2010  
 Date of Report: 02-15-2010

**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‡: 2776959-2: Tape sample 21002001-9-TL21WF				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2776960-2: Tape sample 21002001-9-TL22WF				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2776961-2: Tape sample 21002001-9-TL23WF				
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. Ken Tse**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21002001-8, 21002001-9  
EML ID: 627255

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 02-17-2010

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

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Document Number: 200091 - Revision Number: 5

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Ken Tse  
 Re: 21002001-8, 21002001-9

Date of Sampling: 02-16-2010  
 Date of Receipt: 02-16-2010  
 Date of Report: 02-17-2010

**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‡: 2779261-1: Tape sample 21002001-9-TL01KT				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2779262-1: Tape sample 21002001-9-TL02KT				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2779263-1: Tape sample 21002001-9-TL03KT				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2779264-1: Tape sample 21002001-9-TL04KT				
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. Ken Tse**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21002001-8, 21002001-9  
EML ID: 627255

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Spore trap analysis: 02-17-2010

Service SOPs: Spore trap analysis (I100000)

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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

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Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wesley Frey, Mr. Ken Tse  
Re: 21002001-8, 21002001-9

Date of Sampling: 02-16-2010  
Date of Receipt: 02-16-2010  
Date of Report: 02-17-2010

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

Location:	21002001-8-TM01OUTKT		21002001-8-TM02KT		21002001-8-TM03KT	
Comments (see below)	None		A		None	
Lab ID-Version‡:	2779265-1		2779266-1		2779267-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Arthrinium						
Ascospores*	5	270				
Aureobasidium						
Basidiospores*	168	9,000			1	53
Bipolaris/Drechslera group	2	27				
Botrytis	2	27				
Chaetomium						
Cladosporium	8	430				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium	2	27				
Penicillium/Aspergillus types†						
Pithomyces						
Rusts*						
Smuts*, Periconia, Myxomycetes*	3	40				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	13		< 13		< 13	
Pollen/m3	510		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>9,800</b>		<b>&lt; 13</b>		<b>53</b>

\* **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 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**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21003001-9  
EML ID: 631518

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 03-01-2010

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

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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

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey  
 Re: 21003001-9

Date of Sampling: 03-01-2010  
 Date of Receipt: 03-01-2010  
 Date of Report: 03-01-2010

**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‡: 2797045-1: Tape sample 21003001-9-TL01WF				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2797046-1: Tape sample 21003001-9-TL02WF				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2797047-1: Tape sample 21003001-9-TL03WF				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2797048-1: Tape sample 21003001-9-TL04WF				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2797049-1: Tape sample 21003001-9-TL05WF				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2797050-1: Tape sample 21003001-9-TL06WF				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2797051-1: Tape sample 21003001-9-TL07WF				
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**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21003001-8  
EML ID: 631522

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Spore trap analysis: 03-01-2010

Service SOPs: Spore trap analysis (I100000)

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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

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Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wesley Frey  
Re: 21003001-8

Date of Sampling: 03-01-2010  
Date of Receipt: 03-01-2010  
Date of Report: 03-01-2010

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

Location:	21003001-8-TM01OUTWF		21003001-8-TM02WF		21003001-8-TM03WF	
Comments (see below)	A		None		B	
Lab ID-Version‡:	2797052-1		2797053-1		2797054-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Arthrinium						
Ascospores*	7	370				
Aureobasidium						
Basidiospores*	54	30,000	2	110		
Bipolaris/Drechslera group	1	13				
Botrytis						
Chaetomium						
Cladosporium	34	1,200				
Curvularia						
Epicoccum	1	13				
Fusarium						
Myrothecium						
Nigrospora						
Oidium	8	110				
Penicillium/Aspergillus types†	6	320	1	53		
Pithomyces						
Rusts*						
Smuts*, Periconia, Myxomycetes*	1	13				
Stachybotrys						
Stemphylium	1	13				
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	250		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>32,000</b>		<b>160</b>		<b>&lt; 13</b>

\*Comments: A) 16 of the raw count *Cladosporium* spores were present as a single clump. B) 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 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.













# HYGIENE TECH

Hygiene Technologies International, Inc.



000627255

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: 21002001-8, 21002001-9 Date Submitted: 2/16/10

Project Contact: KENTSE Turnaround Required: SAME DAY

Lab Destination: EMCab Lab Contact: Sample Room

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21002001-8 TMO1KT	7.5L	Air Cell	Spore Trap Analysis
↓ TMO2KT	↓	↓	
↓ TMO3KT	↓	↓	
21002001-9 TCO1KT	N/A	TAPE	Direct Exam (Qualitative)
↓ TCO2KT	↓	↓	
↓ TCO3KT	↓	↓	
↓ TCO4KT	↓	↓	

Special Instructions: \_\_\_\_\_

1. Sampled by: KENTSE 15:00 2/16/10 Received by: [Signature] 2/16/10 4:30PM

2. Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_

3. Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_

Please include signature, date, and time

Lab Use Only: \_\_\_\_\_



