

**MicroTest® Laboratories, Inc.**  
**AIHA EMPAT #160934**  
Environmental Biological Testing  
8080 Madison Ave., Suite 100B  
Fair Oaks, CA 95628  
Tel: (916) 567-9808  
Fax: (916) 567-9818  
E-mail: microtestlabsinc@yahoo.com

October 4, 2007

State of California- Building and Property Management  
707 3<sup>rd</sup> Street  
West Sacramento, CA 95606

Re: 450 N Street  
Sacramento, CA

Dear Sirs,

Please find following the results of the sampling obtained at 450 N Street on 10/03/07. The areas sampled were chosen, by you, for Zefon "Viable/Non-Viable" air sampling analyses. No *Stachybotrys chartarum* was observed. The concentration and distribution of the recovered populations fall within the expected normal range in the areas analyzed, when compared to the outside sample.

For your convenience, the following is an interpretative guideline provided for your use.

**Interpretive Guidelines:**

**Normal Spore Levels:** Indoor spore levels usually average 30% to 80% of the outdoor spore levels at the time of sampling, with the approximate same distribution of spore types. Filtered air, air-conditioned air or air that is not in the proximity of outdoor sources may drop to 5% to 15% of the outdoor spore levels at the time of sampling. As these are general guidelines, a major factor is the accessibility of outdoor air. A residence with heavy foot traffic, open door and windows, etc., may average 95% of the outdoor levels. An office building with limited air exchange may average as low as 2% of the outdoor levels. Dusty interiors may exceed 100% of the outdoor spore levels but will mirror the outdoor distribution of spore types.

**Problem Interiors:** A substantial increase of one or two spore types, which are inconsistent and not reflective of the outside, spore distribution. This is usually indicative of mold growth.

**Suggested Guidelines for Mold Spore and Skin Cell Fragment Concentrations  
Residential Buildings (Counts/Cubic Meter) m<sup>3</sup>**

Suggested Guideline	Total	<i>Penicillium/Aspergillus</i>	Ascospores/ Basidiospores	<i>Cladosporium</i>	Zygomycetes	Skin Cell Fragments
"Average" Clean Residence	<1,800	<600	<200	<100	<100	<9,000
"Clean" Residence (Maximum)	<3,000	<1,400	*<900	*<800	<600	<16,000
Indoor Contamination Present	***>8,000	>4,000	*>1,500	*>600	>700	>20,000
Indoor Amplification May Be Occurring	*>12,000	>8,000	*>1,500	*>1350	>1,000	**>30,000

Reference: *Airborne Mold Spore Concentrations in Commercial & Residential Buildings*, Daniel M. Baxter, Environmental Testing Associates, San Diego, CA., 1995.

\* May depend on outside spore concentration for each species

\*\* Based on mean plus standard deviation of contaminated residences indicating inadequate housekeeping

\*\*\* Based on median of contaminated residences

**Summary of Mold Spore Species Distribution**

Building Type	<i>Penicillium/Aspergillus</i>	Ascospores/ Basidiospores	<i>Cladosporium</i>	Zygomycetes	Skin Cell Fragments
"Clean" Commercial Buildings	37%	24%	11%	5%	23%
"Contaminated" Commercial Buildings	66%	6%	4%	10%	14%
"Clean" Residential Buildings	39%	18%	21%	<1%	22%
"Contaminated" Residential Buildings	20%	76%	1%	1%	2%
"Contaminated Buildings Sampled During Drywall Demolition	92%	<1%	<1%	5%	3%

Reference: *Airborne Mold Spore Concentrations in Commercial & Residential Buildings*, Daniel M. Baxter, Environmental Testing Associates, San Diego, CA., 1995.

Thank you for allowing *MicroTest™* Laboratories, Inc. to provide the microbiological services you required.

Sincerely,

Rebecca Hutty  
President  
*MicroTest™* Laboratories, Inc.

RH/amc

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Client Name:	State Of California-Building and Property Management 707 3rd Street, Suite 5000 West Sacramento, CA 95605	Contact Name:	Lance Lister
Project:	450 N Street Sacramento, CA	Sampler:	Kent T. Garner
		Sample Date:	10/3/07
		Receipt Date:	10/4/07
		Report Date:	10/4/07
		Accession No:	727722-727730
		Instrument Used:	Zefon

**Non-Viable Bioaerosol Analysis**

Client Project Identification	13266865 Outside 5th & O Street	12251201 Rm. 0327 Pillar K22	12251231 Rm. 070X Pillar L22	1225117 Rm 1104 Pillar K22								
	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area
Alternaria	2	27	0.5%				1	13	6%			
Arthrinium												
Ascospores	171	2279	42%	4	53	18%	1	13	6%	5	67	19%
Aureobasidium												
Basidiospores	21	280	5%	1	13	5%	1	13	6%	1	13	4%
Botrytis												
Chaetomium	1	13	0.2%									
Cladosporium	135	1800	33%	3	40	14%	1	13	6%	5	67	19%
Curvularia							1	13	6%			
Drechslera/Bipolaris Group												
Epicoccum	3	40	1%									
Hyphae Fragments	3	40	1%									
Penicillium/Aspergillus*	60	800	15%	14	187	64%	11	147	69%	15	200	58%
Pollen	6	80	1%									
Rusts												
Pithomyces												
Smuts/Peric/Myxomycetes												
Stachybotrys												
Stemphylium												
Torula	2	27	0.5%									
Ulocladium	2	27	0.5%									
Nigrospora	7	93	2%									
<b>Total Spores (Cts/m<sup>3</sup>):</b>	<b>406</b>	<b>5,412</b>		<b>22</b>	<b>293</b>		<b>16</b>	<b>213</b>		<b>26</b>	<b>347</b>	
Sample Volume (Liters)	75			75			75			75		
Sample Time Minutes:	5			5			5			5		
Background Debris**	Many			Many			Few			Few		

\*The spores of *Penicillium/Aspergillus* cannot be differentiated by non-viable sampling methods.

\*\*Fibers, skin fragments and dust are indicated by few, moderate, many, and abundant.

Comments:

Technologist: Rebecca Hutty, *MicroTest Labs™, Inc.*

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Client Name:	State Of California-Building and Property Management 707 3rd Street, Suite 5000 West Sacramento, CA 95605	Contact Name:	Lance Lister Sampler: Kent T. Garner Sample Date: 10/3/07 Receipt Date: 10/4/07 Report Date: 10/4/07 Accession No: 727722-727730
Project:	450 N Street Sacramento, CA	Instrument Used:	Zefon

**Non-Viable Bioaerosol Analysis**

Client Project Identification	13266865 Outside 5th & O Street	12251162 12th Floor Post Coil AH 1&2	12251202 Rm. 2102 Pillar N18	13266869 Hallway By Rm. 2425								
	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area
Alternaria	2	27	0.5%	1	13	17%						
Arthrinium												
Ascospores	171	2279	42%	1	13	17%	5	67	24%	15	200	20%
Aureobasidium												
Basidiospores	21	280	5%				2	27	10%	1	13	1%
Botrytis												
Chaetomium	1	13	0.2%									
Cladosporium	135	1800	33%	3	40	50%	6	80	29%	6	80	8%
Curvularia												
Drechslera/Bipolaris Group												
Epicoccum	3	40	1%									
Hyphae Fragments	3	40	1%									
Penicillium/Aspergillus*	60	800	15%	1	13	17%	8	107	38%	52	693	70%
Pollen	6	80	1%									
Rusts												
Pithomyces												
Smuts/Peric/Myxomycetes												
Stachybotrys												
Stemphylium												
Torula	2	27	0.5%									
Ulocladium	2	27	0.5%									
Nigrospora	7	93	2%									
<b>Total Spores (Cts/m<sup>3</sup>):</b>	<b>406</b>	<b>5,412</b>		<b>6</b>	<b>80</b>		<b>21</b>	<b>280</b>		<b>74</b>	<b>986</b>	
Sample Volume (Liters)	75			75			75			75		
Sample Time Minutes:	5			5			5			5		
Background Debris**	Many			Few			Moderate			Many		

\*The spores of *Penicillium/Aspergillus* cannot be differentiated by non-viable sampling methods.

\*\*Fibers, skin fragments and dust are indicated by few, moderate, many, and abundant.

Comments:

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		Accession No:	727722-727730
		Instrument Used:	Zefon

**Non-Viable Bioaerosol Analysis**

Client Project Identification	13266865 Outside 5th & O Street	13266858 Rm. 2221	12251093 Rm. 2334									
	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area
Alternaria	2	27	0.5%									
Arthrinium												
Ascospores	171	2279	42%	3	40	23%						
Aureobasidium												
Basidiospores	21	280	5%	1	13	8%						
Botrytis												
Chaetomium	1	13	0.2%									
Cladosporium	135	1800	33%	1	13	8%						
Curvularia												
Drechslera/Bipolaris Group												
Epicoccum	3	40	1%									
Hyphae Fragments	3	40	1%									
Penicillium/Aspergillus*	60	800	15%	7	93	54%	6	80	100%			
Pollen	6	80	1%	1	13	8%						
Rusts												
Pithomyces												
Smuts/Peric/Myxomycetes												
Stachybotrys												
Stemphylium												
Torula	2	27	0.5%									
Ulocladium	2	27	0.5%									
Nigrospora	7	93	2%									
<b>Total Spores (Cts/m<sup>3</sup>):</b>	<b>406</b>	<b>5,412</b>		<b>13</b>	<b>173</b>		<b>6</b>	<b>80</b>				
Sample Volume (Liters)	75			75			75					
Sample Time Minutes:	5			5			5					
Background Debris**	Many			Few			Few					

\*The spores of *Penicillium/Aspergillus* cannot be differentiated by non-viable sampling methods.

\*\*Fibers, skin fragments and dust are indicated by few, moderate, many, and abundant.

Comments:

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