Southwest GEOSCIENCE
2351 W. Northwest Hwy., Suite 3321
Dallas, Texas 75220
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September 21, 2012

Lewisville Independent School District
340 Lake Haven
Lewisville, Texas 75057
Attn: Mr. Paul Siddall

Re: Mold Assessment Services – Retest 1
Marcus High School
25 Rooms
5707 Morriss Road
Flower Mound, Texas
SWG Project No. 0112234A

Introduction

Southwest Geoscience (SWG) conducted limited mold assessment activities for the Lewisville Independent School District (Lewisville I.S.D.) within twenty-five (25) rooms at Marcus High School located at 5707 Morriss Road in Flower Mound, Texas (hereinafter referred to as the "Site"). It is SWG's understanding that the request for a mold assessment was triggered by a water intrusion event resulting from a roof leak. The assessment includes the retesting of rooms that were previously determined to contain wet walls or have concentrations of Stachybotrys or Chaetomium identified in the previous assessment. The investigation was limited to areas of the Site identified by Lewisville I.S.D. as described below. The assessment was performed by Mr. Clinton S. Jech a State of Texas licensed Mold Assessment Technician (License No. MAT1075) on September 17 and 18, 2012. SWG's mold services definitions and limitations are included as an attachment to this report.

Investigation Areas

Lewisville I.S.D. identified the following physical portions of the Site as the target investigation areas ("Investigation Areas") for mold assessment: readily accessible areas within twenty-five (25) rooms. SWG's mold assessment services were limited to the Investigation Area(s) identified by Lewisville, I.S.D. Additional areas or portions of the Site were out-of-scope and not included in SWG's mold assessment or this report at this time.

Scope of Work

As set forth in SWG's Mold Assessment Proposal (No. 01121316) dated September 11, 2012, SWG's scope-of-work was to provide visual and/or analytical mold assessment and related services in the Investigation Areas which included:

Visual Reconnaissance: SWG performed a visual reconnaissance of the Investigation Areas for visible indications of moisture intrusion (as indicated by staining or visible moisture) and/or suspect mold growth. SWG's visual reconnaissance only included readily accessible or visible portions of the Investigation Areas.

Suspect Mold Growth Sampling and Analysis: SWG collected limited ambient air samples for nonviable mold spores utilizing Air-O-Cell cassettes. "Air-O-Cell" refers to slit impaction air sampling cassettes manufactured by Zefon Analytical Accessories, St. Petersburg, Florida.

Site Reconnaissance Observations/Findings and Recommendations

SWG's Mold Assessment Site reconnaissance was performed on September 17 and 18, 2012 by Mr. Clinton S. Jech. SWG's visual reconnaissance of the Investigation areas revealed the following:

Temperature and Relative Humidity

Temperature readings collected inside the building on September 17, 2012 ranged from 74.1 to 77.3 degrees Fahrenheit while relative humidity ranged from 41.4 to 53.1 percent. Temperature readings collected outside the building ranged from 82.5 to 82.9 degrees Fahrenheit while outside relative humidity was ranged from 49.2 to 63.6 percent. Temperature readings collected inside the building on September 18, 2012 ranged from 74.3 to 77.1 degrees Fahrenheit while relative humidity ranged from 40 to 47 percent Temperature readings collected outside the building ranged from 78.4 to 80.6 degrees Fahrenheit while outside relative humidity was ranged from 18.6 to 22.1 percent.

Relative humidity is a measure of the moisture content of air and is closely tied to the comfort of the office/workplace temperature. As with temperature, there are no regulations governing acceptable office/workplace humidity ranges. Humidity levels in the office/work place are not only related to health effects, but also have operational impacts on modern office equipment.

Workplace/office temperatures have historically been considered a subjective factor because the perception of uncomfortable temperature levels is specific to each individual. There are no regulations governing acceptable office/workplace temperature ranges, but significant research has been conducted which indicates that there are temperature ranges that are not only comfortable but also result in optimum performance. ASHRAE (American Society of Heating, Refrigerating & Air Conditioning Engineers) has published guidelines describing thermal environmental conditions that at least 80% of the persons who occupy that environment will find acceptable or "comfortable." Table I below explains the applicable limits and guidelines.

Table I
Acceptable Ranges Of Temperature And Humidity

Relative Humidity	Winter Temperatures	Summer Temperatures
30%	68.5 to 76°F	74 to 80°F
40%	68.5 to 75.5°F	73 to 79.5°F
50%	68.5 to 74.5°F	73 to 79°F
60%	68 to 74°F	72.5 to 78°F

SWG utilized a Protimeter Moisture Measurement System (MMS) instrument (Model No. BLD2000) to measure and diagnose dampness of the affected walls. The MMS is a battery powered handheld unit that is equipped with hydrostick probes to measure moisture content in wood, drywall and other and non-conductive materials. The device measures electrical conductivity of building materials and compares the conductivity readings to an internal, electronic standard reading for normal or "dry" materials.

Moisture content readings were obtained by pushing the moisture probe pins into surfaces. The measured values were then displayed on a colored scale depicting if the materials measured were normal (dry), higher than normal but not critical (at risk) or contained excessive moisture levels (wet). Based on the manufacturer's guidelines, the instrument measurement values are described below:

< 5%	Out of Range
> 5% but < 16%	Normal
> 17% but < 20%	Higher than Normal but Not Critical
> 20	Excessive Moisture Levels

Moisture meter readings of the walls collected in the investigation areas are presented in the table below.

Moisture Meter Readings	
Room	Reading
Principal's Office	12 - 13%
Principal's Office, Conference Room	12 – 14&
D110	12 – 15%
A105	10 – 12%
A106	12 – 16%
A108	12 – 14%
A110	9 – 15%
B105	11 – 13%
C104	9 – 14%
A205	50 – 90%
A206	12 – 40%
A209	60 – 90%
A212	12 – 60%
A214	16 – 20%
B207	10 – 15%
B212	12 – 16%
B214 Storage	9 – 12%
A207	18 – 19%
C207	12 – 14%
C206	10 – 18%
C204	18 – 70%
C203	10 – 14%
C202	9 – 16%
C201	9 – 12%
D202	10 – 14%

Moisture meter readings collected from walls within in Rooms A205, A206, A209, A212, A214, A207, C206 and C204 were reported as higher than normal or excessive.

Air Monitoring Results

SWG collected twenty-five (25) samples from the interior of the building and four (4) samples from the exterior of the building. The microbial samples were analyzed by Steve Moody Micro Services, L.L.C. (SMMS) in Farmers Branch, Texas; SMMS is a State of Texas licensed mold analysis laboratory and accredited under the AIHA Laboratory Quality Assurance Program for Environmental Microbiology.

Air testing performed using spore traps found that airborne mold spores in the investigation areas were considerably lower and were qualitatively similar to those measured outside of the building at the time the sampling was performed. On September 17, 2012, total interior fungal spore concentration within the investigation areas ranged from 20 to 6,640 counts/m^3 while exterior levels ranged from 20,280 to 23,960 counts/m^3. On September 18, 2012, total interior fungal spore concentration within the investigation areas ranged from 520 to 4,840 counts/m^3 while exterior levels ranged from 35,600 to 62,400 counts/m^3. Molds identified in higher concentrations inside the building as compared to the exterior samples are listed in the table below.

Molds Identified in Higher Concentration Inside the Building as Compared to the Exterior Samples				
Sample No.	Location	Identification	Indoor Reading counts/m^3	Outdoor Reading counts/m^3
4	Principal's Office	Myxomycete/Perconia/ Rust/Smut	900	520
5	Principal's Conference Room	Curvularia	340	320
5	Principal's Conference Room	Myxomycete/Perconia/ Rust/Smut	1,500	520
6	Room D110	Epicoccum	20	None
6	Room D110	Myxomycete/Perconia/ Rust/Smut	900	520
9	Room A108	Myxomycete/Perconia/ Rust/Smut	580	520
12	Room C104	Aspergillus/Penicillium	3,780	1,520
19	Room B207	Myxomycete/Perconia/ Rust/Smut	680	520
30	Room C202	Non-Specified Fungal Spore	20	None
31	Room C201	Pitomyces	20	None

The table below lists rooms were Stachybotrys and Chaetomium were identified.

Areas with Concentrations of Stachybotrys and Chaetomium				
Sample No.	Location	Identification	Indoor Reading counts/m^3	Outdoor Reading counts/m^3
5	Principal's Conference Room	Stachybotrys	20	None
9	Room D110	Stachybotrys	20	None
8	Room A106	Chartomium	20	None
13	Room A205	Stachybotrys	20	None
14	Room A206	Chaetomium	60	None
14	Room A206	Stachybotrys	40	None
16	Room A209	Stachybotrys	20	None
17	Room A212	Stachybotrys	60	None
18	Room A214	Stachybotrys	60	None
19	Room B207	Stachybotrys	60	None
21	Room B214	Stachybotrys	40	None
25	Room A207	Stachybotrys	40	None
26	Room C207	Stachybotrys	60	None
28	Room C204	Stachybotrys	80	None
29	Room C203	Stachybotrys	40	None
30	Room C202	Chaetomium	20	None
32	Room D202	Stachybotrys	20	None

The American Conference of Governmental Industrial Hygienists (ACGIH) sets forth assessment criteria related to the "indoor/outdoor" relationship where the indoor air quality should be at or below that of outdoor air quality with regard to fungal spores (see ACGIH Bioaerosols, Assessment and Controls publication, 1999).

Suspect Mold

No visible mold was observed during the assessment.

Conclusions and Recommendations

SWG recommends that the wet walls be removed. Further investigation should be performed within rooms with wet walls and rooms where concentrations of Stachybotrys and Chaetomium were identified. If you have any questions regarding this report or if we can assist you with any other matter, please contact the undersigned at (214) 350-5469.

Sincerely,
Southwest Geoscience

Darren G. Bowden
Corporate Director
Industrial Hygiene Services
Texas Mold Assessment Consultant
Lic. No. MAC0321

Attachments: Analytical Results/Chain of Custody
Mold Services Definitions & Limitations/Standard of Care and Reliance

Southwest
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Analytical Results/Chain of Custody

IAQ Mold Report

Summary

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Southwest Geoscience - Dallas, TX
Lab Job No. 12F-11323
Project : Marcus High School, 25 Rooms
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Project # : 0112234A **Sample Date :** 09/17/2012
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Test Method: Mold: ASTM D7391-09 - Standard Profile

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
1	75	Exterior, East * See Analytical Notes report for further details	Agaricus / Agrocybe	120
			Alternaria	680
			Ascospores	280
			Aspergillus / Penicillium	1440
			Basidiospores	4760
			Cercospora / Pseudocercospora	80
			Cladosporium	9400
			Coprinus	120
			Drechslera / Bipolaris group	40
			Fusarium	160
			Ganoderma	320
			Hyphal / Spore Fragments	2280
			Myxomycete / Periconia / Rust / Smut	520
			Nigrospora	40
			Spegazzinia	40
			Total:	20280

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
2	75	Exterior, Southeast	Agaricus / Agrocybe	120
			Alternaria	520
			Ascospores	440
			Aspergillus / Penicillium	1520
			Basidiospores	6240
			Cladosporium	8600
			Coprinus	80
			Curvularia	320
			Drechslera / Bipolaris group	640
			Hyphal / Spore Fragments	2440
			Myxomycete / Periconia / Rust / Smut	520
			Spegazzinia	40
			Total:	21480
3	75	Exterior, Southwest	Agaricus / Agrocybe	160
			Alternaria	840
			Ascospores	440
			Aspergillus / Penicillium	840
			Basidiospores	6880
			Cladosporium	10600
			Coprinus	440
			Hyphal / Spore Fragments	3280
			Myxomycete / Periconia / Rust / Smut	480
			Total:	23960

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
4	150	Principal's Office	Agaricus / Agrocybe	40
			Alternaria	20
			Aspergillus / Penicillium	340
			Basidiospores	1220
			Cladosporium	1220
			Curvularia	360
			Drechslera / Bipolaris group	80
			Hyphal / Spore Fragments	1020
			Myxomycete / Periconia / Rust / Smut	900
			Total:	5200
5	150	Principal's Conference Room	Ascospores	60
			Aspergillus / Penicillium	840
			Basidiospores	1460
			Cladosporium	900
			Curvularia	340
			Drechslera / Bipolaris group	180
			Hyphal / Spore Fragments	1340
			Myxomycete / Periconia / Rust / Smut	1500
			Stachybotrys	20
			Total:	6640

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
6	150	Room D110 * See Analytical Notes report for further details	Agaricus / Agrocybe	40
			Aspergillus / Penicillium	920
			Basidiospores	1060
			Cladosporium	640
			Curvularia	140
			Drechslera / Bipolaris group	260
			Epicoccum	20
			Hyphal / Spore Fragments	760
			Myxomycete / Periconia / Rust / Smut	900
			Stachybotrys	20
			Total:	4760
7	150	Room A-105	Aspergillus / Penicillium	240
			Basidiospores	160
			Cladosporium	220
			Curvularia	20
			Drechslera / Bipolaris group	40
			Hyphal / Spore Fragments	280
			Myxomycete / Periconia / Rust / Smut	460
			Total:	1420

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
8	150	Room A-106 * See Analytical Notes report for further details	Agaricus / Agrocybe	100
			Alternaria	80
			Ascospores	60
			Aspergillus / Penicillium	720
			Basidiospores	1240
			Chaetomium	20
			Cladosporium	700
			Curvularia	120
			Drechslera / Bipolaris group	140
			Fusarium	60
			Hyphal / Spore Fragments	780
			Myxomycete / Periconia / Rust / Smut	240
			Total:	4260
9	150	Room A-108	Aspergillus / Penicillium	240
			Basidiospores	340
			Cladosporium	580
			Curvularia	100
			Drechslera / Bipolaris group	40
			Hyphal / Spore Fragments	860
			Myxomycete / Periconia / Rust / Smut	580
			Total:	2740

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
10	150	Room A-110	Aspergillus / Penicillium	620
			Basidiospores	680
			Cladosporium	820
			Coprinus	20
			Curvularia	100
			Drechslera / Bipolaris group	80
			Hyphal / Spore Fragments	560
			Myxomycete / Periconia / Rust / Smut	260
			Total:	3140
11	150	Room B-105 * See Analytical Notes report for further details	Aspergillus / Penicillium	460
			Basidiospores	440
			Cercospora / Pseudocercospora	20
			Cladosporium	140
			Curvularia	60
			Drechslera / Bipolaris group	20
			Hyphal / Spore Fragments	460
			Myxomycete / Periconia / Rust / Smut	220
			Total:	1820
12	150	Room C-104 * See Analytical Notes report for further details	Aspergillus / Penicillium	3780
			Basidiospores	240
			Cladosporium	100
			Curvularia	80
			Drechslera / Bipolaris group	20
			Hyphal / Spore Fragments	420
			Myxomycete / Periconia / Rust / Smut	220
			Total:	4860

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
13	150	Room A-205	Aspergillus / Penicillium	100
			Drechslera / Bipolaris group	20
			Hyphal / Spore Fragments	80
			Myxomycete / Periconia / Rust / Smut	140
			Stachybotrys	20
			Total:	360
14	150	Room A-206 * See Analytical Notes report for further details	Agaricus / Agrocybe	60
			Alternaria	20
			Aspergillus / Penicillium	100
			Basidiospores	340
			Chaetomium	60
			Cladosporium	140
			Coprinus	20
			Curvularia	40
			Hyphal / Spore Fragments	420
			Myxomycete / Periconia / Rust / Smut	220
			Stachybotrys	40
			Total:	1460

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
16	150	Room A-209	Alternaria	20
			Aspergillus / Penicillium	40
			Basidiospores	160
			Cladosporium	240
			Curvularia	40
			Hyphal / Spore Fragments	240
			Myxomycete / Periconia / Rust / Smut	180
			Stachybotrys	20
			Total:	940
17	150	Room A-212	Agaricus / Agrocybe	80
			Aspergillus / Penicillium	1340
			Basidiospores	760
			Cladosporium	660
			Curvularia	20
			Drechslera / Bipolaris group	40
			Hyphal / Spore Fragments	560
			Myxomycete / Periconia / Rust / Smut	100
			Stachybotrys	60
			Total:	3620

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
18	150	Room A-214	Alternaria	60
			Aspergillus / Penicillium	40
			Cladosporium	60
			Coprinus	20
			Hyphal / Spore Fragments	180
			Myxomycete / Periconia / Rust / Smut	100
			Stachybotrys	60
			Total:	520
19	150	Room B-207 * See Analytical Notes report for further details	Alternaria	80
			Aspergillus / Penicillium	540
			Basidiospores	860
			Cladosporium	240
			Curvularia	180
			Drechslera / Bipolaris group	100
			Hyphal / Spore Fragments	560
			Myxomycete / Periconia / Rust / Smut	680
			Stachybotrys	60
			Total:	3300
20	150	Room B-212	Aspergillus / Penicillium	20
			Total:	20

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
21	150	Room B-214	Alternaria	20
			Aspergillus / Penicillium	1040
			Basidiospores	580
			Cladosporium	260
			Curvularia	60
			Hyphal / Spore Fragments	540
			Myxomycete / Periconia / Rust / Smut	140
			Stachybotrys	40
			Total:	2680

Analyst(s): Rob Greene

Lab Director: Steve Moody

Approved Signatory :

Thank you for choosing Steve Moody Micro Services

IAQ Mold Report

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

Data Detail

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Southwest Geoscience - Dallas, TX
Lab Job No. : 12F-11323
Project : Marcus High School, 25 Rooms
Report Date : 09/20/2012 11:39 AM
Project # : 0112234A
Sample Date : 09/17/2012
Sample Type: Spore Trap, Non-cultured
Spore Trap Type: Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.

Sample ID:	**1**			**2**			**3**			**4**		
Location:	Exterior, East			Exterior, Southeast			Exterior, Southwest			Principal's Office		
Debris Rating:	5			4			3			4		
Media Expires On:	Jul 2013			Jul 2013			Jul 2013			Jul 2013		
Notes Included?:												
Volume:	75			75			75			150		
	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³
Agaricus / Agrocybe	3	40.00	120	3	40.00	120	4	40.00	160	2	20.00	40
Alternaria	17	40.00	680	13	40.00	520	21	40.00	840	1	20.00	20
Ascospores	7	40.00	280	11	40.00	440	11	40.00	440			
Aspergillus / Penicillium	36	40.00	1440	38	40.00	1520	21	40.00	840	17	20.00	340
Basidiospores	119	40.00	4760	156	40.00	6240	172	40.00	6880	61	20.00	1220
Cercospora / Pseudocercospora	2	40.00	80									
Chaetomium												
Cladosporium	235	40.00	9400	215	40.00	8600	265	40.00	10600	61	20.00	1220
Coprinus	3	40.00	120	2	40.00	80	11	40.00	440			
Curvularia				8	40.00	320				18	20.00	360
Drechslera / Bipolaris group	1	40.00	40	16	40.00	640				4	20.00	80
Epicoccum												
Fusarium	4	40.00	160									
Ganoderma	8	40.00	320									
Hyphal / Spore Fragments	57	40.00	2280	61	40.00	2440	82	40.00	3280	51	20.00	1020
Memnoniella												
Myxomycete / Periconia / Rust / Smut	13	40.00	520	13	40.00	520	12	40.00	480	45	20.00	900
Nigrospora	1	40.00	40									
Non-specified Fungal Spore(s)												
Pollen												
Spegazzinia	1	40.00	40	1	40.00	40						
Stachybotrys												
TOTALS	507		20280	537		21480	599		23960	260		5200
Analyst	Rob Greene			Rob Greene			Rob Greene			Rob Greene		
Analysis Date	9/20/2012			9/20/2012			9/20/2012			9/20/2012		

IAQ Mold Report

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

Data Detail

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Southwest Geoscience - Dallas, TX **Lab Job No. :** 12F-11323
Project : Marcus High School, 25 Rooms **Report Date :** 09/20/2012 11:39 AM
Project # : 0112234A **Sample Date :** 09/17/2012
Sample Type: Spore Trap, Non-cultured **Spore Trap Type:** Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.

Sample ID:	**5**			**6**			**7**			**8**		
Location:	Principal's Conference Room			Room D110			Room A-105			Room A-106		
Debris Rating:	4			5			4			5		
Media Expires On:	Jul 2013			Jul 2013			Jul 2013			Jul 2013		
Notes Included?:												
Volume:	150			150			150			150		
	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³
Agaricus / Agrocybe				2	20.00	40				5	20.00	100
Alternaria										4	20.00	80
Ascospores	3	20.00	60							3	20.00	60
Aspergillus / Penicillium	42	20.00	840	46	20.00	920	12	20.00	240	36	20.00	720
Basidiospores	73	20.00	1460	53	20.00	1060	8	20.00	160	62	20.00	1240
Cercospora / Pseudocercospora												
Chaetomium										1	20.00	20
Cladosporium	45	20.00	900	32	20.00	640	11	20.00	220	35	20.00	700
Coprinus												
Curvularia	17	20.00	340	7	20.00	140	1	20.00	20	6	20.00	120
Drechslera / Bipolaris group	9	20.00	180	13	20.00	260	2	20.00	40	7	20.00	140
Epicoccum				1	20.00	20						
Fusarium										3	20.00	60
Ganoderma												
Hyphal / Spore Fragments	67	20.00	1340	38	20.00	760	14	20.00	280	39	20.00	780
Memnoniella												
Myxomycete / Periconia / Rust / Smut	75	20.00	1500	45	20.00	900	23	20.00	460	12	20.00	240
Nigrospora												
Non-specified Fungal Spore(s)												
Pollen												
Spegazzinia												
Stachybotrys	1	20.00	20	1	20.00	20						
TOTALS	332		6640	238		4760	71		1420	213		4260
Analyst	Rob Greene			Rob Greene			Rob Greene			Rob Greene		
Analysis Date	9/20/2012			9/20/2012			9/20/2012			9/20/2012		

IAQ Mold Report

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

Data Detail

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Southwest Geoscience - Dallas, TX **Lab Job No. :** 12F-11323
Project : Marcus High School, 25 Rooms **Report Date :** 09/20/2012 11:39 AM
Project # : 0112234A **Sample Date :** 09/17/2012
Sample Type: Spore Trap, Non-cultured **Spore Trap Type:** Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.

Sample ID:	**9**			**10**			**11**			**12**		
Location:	Room A-108			Room A-110			Room B-105			Room C-104		
Debris Rating:	4			4			5			5		
Media Expires On:	Jul 2013			Jul 2013			Jul 2013			Jul 2013		
Notes Included?:												
Volume:	150			150			150			150		
	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³
Agaricus / Agrocybe												
Alternaria												
Ascospores												
Aspergillus / Penicillium	12	20.00	240	31	20.00	620	23	20.00	460	189	20.00	3780
Basidiospores	17	20.00	340	34	20.00	680	22	20.00	440	12	20.00	240
Cercospora / Pseudocercospora							1	20.00	20			
Chaetomium												
Cladosporium	29	20.00	580	41	20.00	820	7	20.00	140	5	20.00	100
Coprinus				1	20.00	20						
Curvularia	5	20.00	100	5	20.00	100	3	20.00	60	4	20.00	80
Drechslera / Bipolaris group	2	20.00	40	4	20.00	80	1	20.00	20	1	20.00	20
Epicoccum												
Fusarium												
Ganoderma												
Hyphal / Spore Fragments	43	20.00	860	28	20.00	560	23	20.00	460	21	20.00	420
Memnoniella												
Myxomycete / Periconia / Rust / Smut	29	20.00	580	13	20.00	260	11	20.00	220	11	20.00	220
Nigrospora												
Non-specified Fungal Spore(s)												
Pollen												
Spegazzinia												
Stachybotrys												
TOTALS	137		2740	157		3140	91		1820	243		4860
Analyst	Rob Greene			Rob Greene			Rob Greene			Rob Greene		
Analysis Date	9/20/2012			9/20/2012			9/20/2012			9/20/2012		

IAQ Mold Report

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

Data Detail

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Southwest Geoscience - Dallas, TX **Lab Job No. :** 12F-11323
Project : Marcus High School, 25 Rooms **Report Date :** 09/20/2012 11:39 AM
Project # : 0112234A **Sample Date :** 09/17/2012
Sample Type: Spore Trap, Non-cultured **Spore Trap Type:** Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.

Sample ID:	**13**			**14**			**16**			**17**		
Location:	Room A-205			Room A-206			Room A-209			Room A-212		
Debris Rating:	4			5			4			4		
Media Expires On:	Jul 2013			Jul 2013			Jul 2013			Jul 2013		
Notes Included?:												
Volume:	150			150			150			150		
	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³
Agaricus / Agrocybe				3	20.00	60				4	20.00	80
Alternaria				1	20.00	20	1	20.00	20			
Ascospores												
Aspergillus / Penicillium	5	20.00	100	5	20.00	100	2	20.00	40	67	20.00	1340
Basidiospores				17	20.00	340	8	20.00	160	38	20.00	760
Cercospora / Pseudocercospora												
Chaetomium				3	20.00	60						
Cladosporium				7	20.00	140	12	20.00	240	33	20.00	660
Coprinus				1	20.00	20						
Curvularia				2	20.00	40	2	20.00	40	1	20.00	20
Drechslera / Bipolaris group	1	20.00	20							2	20.00	40
Epicoccum												
Fusarium												
Ganoderma												
Hyphal / Spore Fragments	4	20.00	80	21	20.00	420	12	20.00	240	28	20.00	560
Memnoniella												
Myxomycete / Periconia / Rust / Smut	7	20.00	140	11	20.00	220	9	20.00	180	5	20.00	100
Nigrospora												
Non-specified Fungal Spore(s)												
Pollen												
Spegazzinia												
Stachybotrys	1	20.00	20	2	20.00	40	1	20.00	20	3	20.00	60
TOTALS	18		360	73		1460	47		940	181		3620
Analyst	Rob Greene			Rob Greene			Rob Greene			Rob Greene		
Analysis Date	9/20/2012			9/20/2012			9/20/2012			9/20/2012		

IAQ Mold Report

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

Data Detail

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Southwest Geoscience - Dallas, TX **Lab Job No. :** 12F-11323
Project : Marcus High School, 25 Rooms **Report Date :** 09/20/2012 11:39 AM
Project # : 0112234A **Sample Date :** 09/17/2012
Sample Type: Spore Trap, Non-cultured **Spore Trap Type:** Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.

Sample ID:	**18**			**19**			**20**			**21**		
Location:	Room A-214			Room B-207			Room B-212			Room B-214		
Debris Rating:	4			5			3			4		
Media Expires On:	Jul 2013			Jul 2013			Jul 2013			Jul 2013		
Notes Included?:				See Analytical Notes								
Volume:	150			150			150			150		
	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³
Agaricus / Agrocybe												
Alternaria	3	20.00	60	4	20.00	80				1	20.00	20
Ascospores												
Aspergillus / Penicillium	2	20.00	40	27	20.00	540	1	20.00	20	52	20.00	1040
Basidiospores				43	20.00	860				29	20.00	580
Cercospora / Pseudocercospora												
Chaetomium												
Cladosporium	3	20.00	60	12	20.00	240				13	20.00	260
Coprinus	1	20.00	20									
Curvularia				9	20.00	180				3	20.00	60
Drechslera / Bipolaris group				5	20.00	100						
Epicoccum												
Fusarium												
Ganoderma												
Hyphal / Spore Fragments	9	20.00	180	28	20.00	560				27	20.00	540
Memnoniella												
Myxomycete / Periconia / Rust / Smut	5	20.00	100	34	20.00	680				7	20.00	140
Nigrospora												
Non-specified Fungal Spore(s)												
Pollen												
Spegazzinia												
Stachybotrys	3	20.00	60	3	20.00	60				2	20.00	40
TOTALS	26		520	165		3300	1		20	134		2680
Analyst	Rob Greene			Rob Greene			Rob Greene			Rob Greene		
Analysis Date	9/20/2012			9/20/2012			9/20/2012			9/20/2012		

IAQ Mold Report

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

Data Detail

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Southwest Geoscience - Dallas, TX **Lab Job No. :** 12F-11323
Project : Marcus High School, 25 Rooms **Report Date :** 09/20/2012 11:39 AM
Project # : 0112234A **Sample Date :** 09/17/2012
Sample Type: Spore Trap, Non-cultured **Spore Trap Type:** Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.

Debris Rating Key:

0 - No debris detected.
1 - Trace debris.
2 - Light debris.
3 - Moderate debris.
4 - Substantial debris.
5 - Extensive debris.
6 - Field blank.

NOTE: Debris defined as skin, fibers, pollen grains, insect parts, and/or other non-fungal particles.

IAQ Mold Report

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

Analytical Notes

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Southwest Geoscience - Dallas, TX
Lab Job No. : 12F-11323
Project : Marcus High School, 25 Rooms
Report Date : 09/20/2012 11:39 AM
Project # : 0112234A
Sample Date : 09/17/2012
Sample Type: Spore Trap, Non-cultured
Spore Trap Type: Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.

Samples Analyzed

Sample No:	1 : Exterior, East
Notes:	45% Occluded.
Sample No:	6 : Room D110
Notes:	45% Occluded.
Sample No:	8 : Room A-106
Notes:	40% Occluded.
Sample No:	11 : Room B-105
Notes:	20% Occluded.
Sample No:	12 : Room C-104
Notes:	30% Occluded.
Sample No:	14 : Room A-206
Notes:	20% Occluded.
Sample No:	19 : Room B-207
Notes:	90% Occluded. Due to occlusion on the primary portion of the trace in this sample, higher concentrations of material(s) may be present. The reported "Concentration(s)" are based upon visual estimates of the fields examined. This condition could lead to under-reporting of "Concentration(s)".

Field Blanks

No discernable field blanks were submitted with this set of samples.

NOTE: All remaining samples suitable for analysis.

Methods

Method: ASTM D7391-09: Categorization and Quantification of Airborne Fungal Structures in an Intertial Impaction Sample by Optical Microscopy.

Calculation: Spores/cubic meter = (Raw spore count)*(MDL)

Note: MDL (Minimum Detection Limit) is calculated based upon 1 raw spore count.

Steve Moody Micro Services recommends two significant figures for calculated values based ASTM D7391-09.

IAQ Mold Report

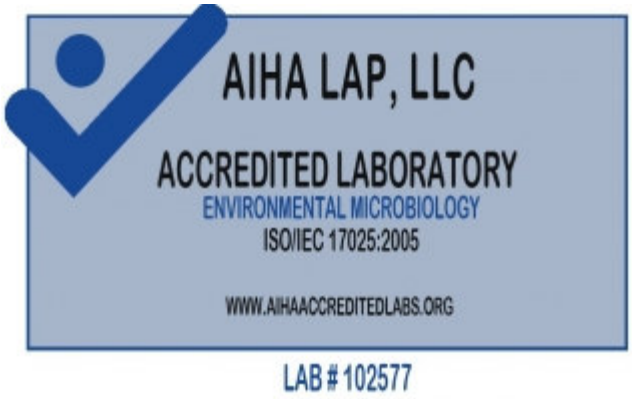
Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

Analytical Notes

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Southwest Geoscience - Dallas, TX
Lab Job No. : 12F-11323
Project : Marcus High School, 25 Rooms
Report Date : 09/20/2012 11:39 AM
Project # : 0112234A **Sample Date :** 09/17/2012
Sample Type: Spore Trap, Non-cultured **Spore Trap Type:** Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.



Chain of Custody

Page 1 of 2

SMMS LABS

Lab Job # 12F-11323 AOC:20
Lab Job #
Lab Job #

Please call in advance for immediate, after-hour, & weekend pricing & availability.**
Turnaround of Culture Samples subject to Culture Growth*

ASBESTOS PLM
Bulk ☐1 day ☐2 day ☐3 day ☐5 day ☐Immediate
☐**Analyze All** ☐**Positive Stop**

LEAD Paint / Soil / Wipe ☐1 day ☐2 day ☐3 day ☐5 day ☐Immediate
PCM Air (7400) ☐1 day ☐2 day ☐3 day ☐5 day ☐Immediate
TOTAL DUST (0500/0600) ☐1 day ☐2 day

MOLD
Non-culture (Tape / Bulk (Air)) ☐1 day ☒2 day ☐Immediate
☒ Air Standard Profile ☐Air Expanded Profile
Analyze Blanks ☐Yes ☐No
Culture (Swab / Bulk / Plate) ☐7-14 day

ASBESTOS TEM

Air AHERA Method	☐6 hr	☐12hr	☐24 hr
Air 7402 (Modified)	☐1 day	☐2 day	☐3 day
Bulk/Wipe/Micro Vac	☐1 day	☐2 day	☐3 day
Water	☐1 day	☐2 day	☐3 day
Analyze Blanks	☐Yes	☐No	

BACTERIA

Heterotrophic Plate Count (HPC)	☐3 day	
HPC + Gram Stain	☐3 day	☐5 day
HPC + 3 Gram Neg ID	☐6-8 day	
HPC + 5 Gram Neg ID	☐6-8 day	
Fecal Coliform (MPN)	☐3 day	
Total Coliform & E Coli (P/A)	☐2-3 day	

Billing Company / City: SWG
Submitter / Company: Clinton S. Jech
Project: Marcus High School 25 Rooms
Contact Information: Name: Clint Jech
E-mail Results to: Clint/Darren/Veronica
Invoice Address: Veronica

# of Samples: 20
Sample Date: 9/17/2012
Project #: 0112234A
Phone #:
Mobile #: (972) 989-1031
P.O. #:

— Please review paperwork and samples before submitting to lab. Unsealed / improperly packaged samples or excessive administrative requests may incur additional fees—

Notes:

Sample #	Sample Description	Vol. / Area if applicable	Location / Notes
1	Exterior, East	75	H= 63.6% T= 82.5°
2	Exterior, Southeast	75	H= 50.0% T= 82.9°
3	Exterior, Southwest	75	H= 49.2% T= 82.9°
4	Principal's office	150	H= 41.4% T= 77.3° M= 12-13
5	Principal's Conference Room	150	H= 44.0% T= 76.8 M= 12-14
6	Room D116	150	H= 57.9% T= 74.8 M= 12-15
7	Room A-105	150	H= 48.0% T= 75.2° M= 10-12
8	Room A-106	150	H= 52.8% T= 74.8° M= 12-16
9	Room A-108	150	H= 51.3% T= 74.4° M= 12-14
10	Room A-110	150	H= 52.0% T= 74.4° M= 9-15
11	Room B-105	150	H= 51.3% T= 74.4° M= 11-13
12	Room C-104	150	H= 52.1% T= 75.7° M= 9-14
13	Room A-205	150	H= 51.5% T= 75.9° M= 50-90
14	Room A-206	150	H= 50.3% T= 75.3° M= 12-40
~~15~~	~~Room A-207~~ No Sample	~~150~~	~~H= 52.9% T= 74.6° M= 50-70~~

Released By:	Date / Time:	Received By:	Date / Time:
	9/18/2012 1452		9-18-12 2:52PM
Released By:	Date / Time:	Received By:	Date / Time:

Chain of Custody

Page 2 of 2

SMMS LABS

Lab Job # 12F-11323
Lab Job # _____
Lab Job # _____

Project: _____ Project #: _____

Sample #	Sample Description	Vol. / Area if applicable	Location / Notes
16	Room A-209	150	H= 54.3% T= 74.6°
			M= 60-90 Front Wall
17	Room A-212	150	H= 52.7% T= 74.1°
			M= 12-60 Front Wall
18	Room A-214	150	H= 53.0% T= 74.1°
			M= 16-20 Back Wall
19	Room B-207	150	H= 53.1% T= 75.2° M= 10-15
20	Room B-212	150	H= 53.0% T= 75.2° M= 12-16
21	Room B-214	150	H= 52.8% T= 74.9° M= 9-12

IAQ Mold Report

Summary

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Southwest Geoscience - Dallas, TX
Lab Job No. 12F-11366
Project : Marcus High School, 25 Classrooms
Report Date 09/21/2012 11:33 AM
Project # : 0112234A **Sample Date :** 09/18/2012
Sample Type: Spore Trap, Non-cultured **Spore Trap Type:** Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile

On 9/19/2012, eleven (11) samples were submitted by Clint Jech of Southwest Geoscience - Dallas, TX (located at 2351 W NW Hwy #3321, Dallas, TX 75220) for Spore Trap, Non-cultured mold analysis. This report consists of three sections; a summary section, a data detail section, and an analytical notes section.

Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
22	75	Exterior, Northeast	Agaricus / Agrocybe	40
			Alternaria	1120
			Ascospores	4080
			Aspergillus / Penicillium	4920
			Basidiospores	15400
			Cercospora / Pseudocercospora	120
			Cladosporium	30240
			Coprinus	440
			Curvularia	480
			Drechslera / Bipolaris group	320
			Fusarium	200
			Hyphal / Spore Fragments	3920
			Myxomycete / Periconia / Rust / Smut	1120
			Total:	62400

IAQ Mold Report

Summary

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Southwest Geoscience - Dallas, TX **Lab Job No.** 12F-11366
Project : Marcus High School, 25 Classrooms **Report Date** 09/21/2012 11:33 AM
Project # : 0112234A **Sample Date :** 09/18/2012
Sample Type: Spore Trap, Non-cultured **Spore Trap Type:** Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile

On 9/19/2012, eleven (11) samples were submitted by Clint Jech of Southwest Geoscience - Dallas, TX (located at 2351 W NW Hwy #3321, Dallas, TX 75220) for Spore Trap, Non-cultured mold analysis. This report consists of three sections; a summary section, a data detail section, and an analytical notes section.

Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
23	75	Exterior, North	Agaricus / Agrocybe	480
			Alternaria	1400
			Ascospores	3800
			Aspergillus / Penicillium	4200
			Basidiospores	10240
			Cercospora / Pseudocercospora	240
			Cladosporium	18720
			Coprinus	1240
			Curvularia	720
			Drechslera / Bipolaris group	600
			Fusarium	280
			Hyphal / Spore Fragments	3400
			Myxomycete / Periconia / Rust / Smut	1000
			Spegazzinia	40
			Total:	46360
24	75	Exterior, Northwest	Alternaria	320
			Ascospores	960
			Aspergillus / Penicillium	1680
			Basidiospores	9640
			Cladosporium	17000
			Curvularia	320
			Drechslera / Bipolaris group	760
			Fusarium	200
			Ganoderma	240
			Hyphal / Spore Fragments	3560
			Myxomycete / Periconia / Rust / Smut	920
			Total:	35600

IAQ Mold Report

Summary

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Southwest Geoscience - Dallas, TX **Lab Job No.** 12F-11366
Project : Marcus High School, 25 Classrooms **Report Date** 09/21/2012 11:33 AM
Project # : 0112234A **Sample Date :** 09/18/2012
Sample Type: Spore Trap, Non-cultured **Spore Trap Type:** Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile

On 9/19/2012, eleven (11) samples were submitted by Clint Jech of Southwest Geoscience - Dallas, TX (located at 2351 W NW Hwy #3321, Dallas, TX 75220) for Spore Trap, Non-cultured mold analysis. This report consists of three sections; a summary section, a data detail section, and an analytical notes section.

Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
25	150	Room A-207	Agaricus / Agrocybe	40
			Aspergillus / Penicillium	300
			Basidiospores	540
			Cladosporium	140
			Curvularia	140
			Hyphal / Spore Fragments	3640
			Stachybotrys	40
			Total:	4840
26	150	Room C-207 * See Analytical Notes report for further details	Aspergillus / Penicillium	100
			Basidiospores	380
			Cladosporium	320
			Curvularia	120
			Drechslera / Bipolaris group	100
			Hyphal / Spore Fragments	300
			Myxomycete / Periconia / Rust / Smut	380
			Stachybotrys	60
			Total:	1760
27	150	Room C-206	Alternaria	40
			Aspergillus / Penicillium	300
			Basidiospores	520
			Cladosporium	620
			Curvularia	100
			Drechslera / Bipolaris group	60
			Hyphal / Spore Fragments	320
			Myxomycete / Periconia / Rust / Smut	80
			Total:	2040

IAQ Mold Report

Summary

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
28	150	Room C-204	Ascospores	40
			Aspergillus / Penicillium	280
			Basidiospores	680
			Cladosporium	580
			Curvularia	220
			Drechslera / Bipolaris group	160
			Hyphal / Spore Fragments	480
			Myxomycete / Periconia / Rust / Smut	240
			Stachybotrys	80
			Total:	2760
29	150	Room C-203	Aspergillus / Penicillium	100
			Basidiospores	280
			Cladosporium	320
			Hyphal / Spore Fragments	200
			Myxomycete / Periconia / Rust / Smut	240
			Stachybotrys	40
			Total:	1180

IAQ Mold Report

Summary

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2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
30	150	Room C-202	Alternaria	20
			Ascospores	40
			Aspergillus / Penicillium	40
			Basidiospores	120
			Chaetomium	20
			Cladosporium	280
			Coprinus	20
			Curvularia	60
			Drechslera / Bipolaris group	80
			Hyphal / Spore Fragments	140
			Myxomycete / Periconia / Rust / Smut	40
			Non-specified Fungal Spore(s)	20
			Total:	880
31	150	Room C-201	Alternaria	20
			Aspergillus / Penicillium	80
			Basidiospores	100
			Cladosporium	140
			Curvularia	60
			Drechslera / Bipolaris group	20
			Hyphal / Spore Fragments	60
			Myxomycete / Periconia / Rust / Smut	20
			Pithomyces	20
			Total:	520

IAQ Mold Report

Summary

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

DSHS License No.: LAB0117
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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
	150	Room D-202	Alternaria	20
			Ascospores	20
			Aspergillus / Penicillium	140
			Basidiospores	80
			Cladosporium	220
			Curvularia	80
			Drechslera / Bipolaris group	80
			Hyphal / Spore Fragments	80
			Myxomycete / Periconia / Rust / Smut	40
			Stachybotrys	20
			Total:	780

Analyst(s): Rebecca Lutz, Rob Greene

Lab Director: Steve Moody

Approved Signatory :

Thank you for choosing Steve Moody Micro Services

IAQ Mold Report

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

Data Detail

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Southwest Geoscience - Dallas, TX **Lab Job No. :** 12F-11366
Project : Marcus High School, 25 Classrooms **Report Date :** 09/21/2012 11:33 AM
Project # : 0112234A **Sample Date :** 09/18/2012
Sample Type: Spore Trap, Non-cultured **Spore Trap Type:** Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.

Sample ID:	**22**			**23**			**24**			**25**		
Location:	Exterior, Northeast			Exterior, North			Exterior, Northwest			Room A-207		
Debris Rating:	4			4			4			4		
Media Expires On:	Jul 2013			Jul 2013			Jul 2013			Jul 2013		
Notes Included?:												
Volume:	75			75			75			150		
	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³
Agaricus / Agrocybe	1	40.00	40	12	40.00	480				2	20.00	40
Alternaria	28	40.00	1120	35	40.00	1400	8	40.00	320			
Ascospores	102	40.00	4080	95	40.00	3800	24	40.00	960			
Aspergillus / Penicillium	123	40.00	4920	105	40.00	4200	42	40.00	1680	15	20.00	300
Basidiospores	385	40.00	15400	256	40.00	10240	241	40.00	9640	27	20.00	540
Cercospora / Pseudocercospora	3	40.00	120	6	40.00	240						
Chaetomium												
Cladosporium	756	40.00	30240	468	40.00	18720	425	40.00	17000	7	20.00	140
Coprinus	11	40.00	440	31	40.00	1240						
Curvularia	12	40.00	480	18	40.00	720	8	40.00	320	7	20.00	140
Drechslera / Bipolaris group	8	40.00	320	15	40.00	600	19	40.00	760			
Fusarium	5	40.00	200	7	40.00	280	5	40.00	200			
Ganoderma							6	40.00	240			
Hyphal / Spore Fragments	98	40.00	3920	85	40.00	3400	89	40.00	3560	182	20.00	3640
Memnoniella												
Myxomycete / Periconia / Rust / Smut	28	40.00	1120	25	40.00	1000	23	40.00	920			
Non-specified Fungal Spore(s)												
Pithomyces												
Pollen												
Spegazzinia				1	40.00	40						
Stachybotrys										2	20.00	40
TOTALS	1560		62400	1159		46360	890		35600	242		4840
Analyst	Rob Greene			Rob Greene			Rob Greene			Rob Greene		
Analysis Date	9/20/2012			9/21/2012			9/21/2012			9/21/2012		

IAQ Mold Report

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

Data Detail

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Southwest Geoscience - Dallas, TX **Lab Job No. :** 12F-11366
Project : Marcus High School, 25 Classrooms **Report Date :** 09/21/2012 11:33 AM
Project # : 0112234A **Sample Date :** 09/18/2012
Sample Type: Spore Trap, Non-cultured **Spore Trap Type:** Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.

Sample ID:	**26**			**27**			**28**			**29**		
Location:	Room C-207			Room C-206			Room C-204			Room C-203		
Debris Rating:	5			4			4			4		
Media Expires On:	Jul 2013			Jul 2013			Jul 2013			Jul 2013		
Notes Included?:												
Volume:	150			150			150			150		
	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³
Agaricus / Agrocybe												
Alternaria				2	20.00	40						
Ascospores							2	20.00	40			
Aspergillus / Penicillium	5	20.00	100	15	20.00	300	14	20.00	280	5	20.00	100
Basidiospores	19	20.00	380	26	20.00	520	34	20.00	680	14	20.00	280
Cercospora / Pseudocercospora												
Chaetomium												
Cladosporium	16	20.00	320	31	20.00	620	29	20.00	580	16	20.00	320
Coprinus												
Curvularia	6	20.00	120	5	20.00	100	11	20.00	220			
Drechslera / Bipolaris group	5	20.00	100	3	20.00	60	8	20.00	160			
Fusarium												
Ganoderma												
Hyphal / Spore Fragments	15	20.00	300	16	20.00	320	24	20.00	480	10	20.00	200
Memnoniella												
Myxomycete / Periconia / Rust / Smut	19	20.00	380	4	20.00	80	12	20.00	240	12	20.00	240
Non-specified Fungal Spore(s)												
Pithomyces												
Pollen												
Spegazzinia												
Stachybotrys	3	20.00	60				4	20.00	80	2	20.00	40
TOTALS	88		1760	102		2040	138		2760	59		1180
Analyst	Rob Greene			Rob Greene			Rob Greene			Rob Greene		
Analysis Date	9/21/2012			9/21/2012			9/21/2012			9/21/2012		

IAQ Mold Report

Steve Moody Micro Services, LLC
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

Data Detail

DSHS License No.: LAB0117
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Sample Type: Spore Trap, Non-cultured **Spore Trap Type:** Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile

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Sample ID:	**30**			**31**								
Location:	Room C-202			Room C-201			Room D-202					
Debris Rating:	4			4			4					
Media Expires On:	Jul 2013			Jul 2013			Jul 2013					
Notes Included?:												
Volume:	150			150			150					
	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³			
Agaricus / Agrocybe												
Alternaria	1	20.00	20	1	20.00	20	1	20.00	20			
Ascospores	2	20.00	40				1	20.00	20			
Aspergillus / Penicillium	2	20.00	40	4	20.00	80	7	20.00	140			
Basidiospores	6	20.00	120	5	20.00	100	4	20.00	80			
Cercospora / Pseudocercospora												
Chaetomium	1	20.00	20									
Cladosporium	14	20.00	280	7	20.00	140	11	20.00	220			
Coprinus	1	20.00	20									
Curvularia	3	20.00	60	3	20.00	60	4	20.00	80			
Drechslera / Bipolaris group	4	20.00	80	1	20.00	20	4	20.00	80			
Fusarium												
Ganoderma												
Hyphal / Spore Fragments	7	20.00	140	3	20.00	60	4	20.00	80			
Memnoniella												
Myxomycete / Periconia / Rust / Smut	2	20.00	40	1	20.00	20	2	20.00	40			
Non-specified Fungal Spore(s)	1	20.00	20									
Pithomyces				1	20.00	20						
Pollen												
Spegazzinia												
Stachybotrys							1	20.00	20			
TOTALS	44		880	26		520	39		780			
Analyst	Rebecca Lutz			Rebecca Lutz			Rebecca Lutz					
Analysis Date	9/21/2012			9/21/2012			9/21/2012					

IAQ Mold Report

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Data Detail

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Project : Marcus High School, 25 Classrooms **Report Date :** 09/21/2012 11:33 AM
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Sample Type: Spore Trap, Non-cultured **Spore Trap Type:** Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile

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Debris Rating Key:

0 - No debris detected.
1 - Trace debris.
2 - Light debris.
3 - Moderate debris.
4 - Substantial debris.
5 - Extensive debris.
6 - Field blank.

NOTE: Debris defined as skin, fibers, pollen grains, insect parts, and/or other non-fungal particles.

IAQ Mold Report

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Analytical Notes

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Samples Analyzed

Sample No:	26 : Room C-207
Notes:	25% Occluded.

Field Blanks

No discernable field blanks were submitted with this set of samples.

NOTE: All remaining samples suitable for analysis.

Methods

Method: ASTM D7391-09: Categorization and Quantification of Airborne Fungal Structures in an Intertial Impaction Sample by Optical Microscopy.

Calculation: Spores/cubic meter = (Raw spore count)*(MDL)

Note: MDL (Minimum Detection Limit) is calculated based upon 1 raw spore count.

Steve Moody Micro Services recommends two significant figures for calculated values based ASTM D7391-09.

AIHA LAP, LLC
ACCREDITED LABORATORY
ENVIRONMENTAL MICROBIOLOGY
ISO/IEC 17025:2005
WWW.AIHAACCREDITEDLABS.ORG
LAB # 102577

Chain of Custody

Page 1 of 2

SMMS LABS

Lab Job # 12B-
Lab Job # 12F-113666 ACC: 14
Lab Job #

Please call in advance for immediate, after-hour, & weekend pricing & availability.
Turnaround of Culture Samples subject to Culture Growth*

ASBESTOS PLM
Bulk ☐1 day ☐2 day ☐3 day ☐5 day ☐Immediate
☐**Analyze All** ☐**Positive Stop**

LEAD Paint / Soil / Wipe ☐1 day ☐2 day ☐3 day ☐5 day ☐Immediate
PCM Air (7400) ☐1 day ☐2 day ☐3 day ☐5 day ☐Immediate
TOTAL DUST (0500/0600) ☐1 day ☐2 day

MOLD
Non-culture (Tape / Bulk / (Air)) ☐1 day ☑2 day ☐Immediate
☐ Air Standard Profile ☐Air Expanded Profile
Analyze Blanks ☐**Yes** ☐**No**
Culture (Swab / Bulk / Plate) ☐7-14 day

ASBESTOS TEM

Air AHERA Method	☐6 hr	☐12hr	☐24 hr
Air 7402 (Modified)	☐1 day	☐2 day	☐3 day
Bulk/Wipe/Micro Vac	☐1 day	☐2 day	☐3 day
Water	☐1 day	☐2 day	☐3 day
Analyze Blanks	☐**Yes**	☐**No**	

BACTERIA

Heterotrophic Plate Count (HPC)	☐3 day	
HPC + Gram Stain	☐3 day	☐5 day
HPC + 3 Gram Neg ID	☐6-8 day	
HPC + 5 Gram Neg ID	☐6-8 day	
Fecal Coliform (MPN)	☐3 day	
Total Coliform & E Coli (P/A)	☐2-3 day	

Billing Company / City: SWL
# of Samples: 11
Submitter / Company: Clinton S. Jech
Sample Date: 9/18/2012
Project: Marcus High School 25 Classrooms
Project #: 0112234A
Contact Information: Name: Clint Jech
Phone #:
E-mail Results to: Clint / Darren / Veronica
Mobile #: 972-989-1031
Invoice Address: Veronica
P.O. #:

--- Please review paperwork and samples before submitting to lab. Unsealed / improperly packaged samples or excessive administrative requests may incur additional fees---

Notes:

Sample #	Sample Description	Vol. / Area if applicable	Location / Notes
22	Exterior, Northeast	75	H = 18.6% T = 80.4°
23	Exterior, North	75	H = 22.1% T = 78.4°
24	Exterior, Northwest	75	H = 20.7% T = 80.6°
25	Room A-207	150	H = 36.7% T = 76.4°
			M = Front Wall 25-65 Back Wall 18-90
26	Room C-207	150	H = 43.3% T = 77.1° M = 12-14
27	Room C-206	150	H = 40.0% T = 76.1° M = 10-18
28	Room C-204	150	H = 44.6% T = 75.0° M = Back Wall
			18-70
29	Room C-203	150	H = 45.8% T = 74.3° M = 10-14
30	Room C-202	150	H = 43.2% T = 74.3° M = 9-16

Released By:	Date / Time:	Received By:	Date / Time:
	9/19/2012 1407		9-19-12 2:07 PM
Released By:	Date / Time:	Received By:	Date / Time:

Chain of Custody

Page 2 of 2

SMMS LABS

Lab Job # 12F-113616
Lab Job #
Lab Job #

Project: Marcus High School 25 Classrooms Project #: 0112234 A

Sample #	Sample Description	Vol. / Area if applicable	Location / Notes
31	Room C-201	150	H= 44.7% T= 74.4° M= 9-12
32	Room D-202	150	H= 47.0% T= 74.8° M= 10-14

Southwest
GEOSCIENCE

Mold Services Definitions & Limitations/ Standard of Care and Reliance

Mold Services Definitions & Limitations

"Mold" defined. Mold is a general term used to describe various types of singled-celled naturally occurring biological organisms occurring worldwide. For purposes of this report (and the Texas Mold Assessment & Remediation Rules), the term "mold" is broadly defined to include any living or dead fungi or related products or parts, including spores, hyphae, and mycotoxins.

Limited Scope of Mold Assessment. The scope of SWG's mold assessment services as reflected in the Proposal and this report are limited in that (i) they were physically limited to certain portions of the building structure (e.g., the Client identified Investigation Areas); and (ii) limited by accessibility to building materials or components within the Investigation Area(s). In contrast to a Limited Assessment" is a comprehensive assessment, which involves destructive sampling methods and the scope of the assessment typically extending to the entire building structure.

Time sensitive. Mold assessments are essentially a *"snap shot in time,"* and the results are only relevant at the time of site reconnaissance. Because mold, when biologically active, is a living organism, its presence is influenced and controlled by environmental conditions. Mold assessments, therefore, are "time sensitive" in that the presence and concentration of mold and similar organisms in building structures or in the air is directly influenced by environmental conditions (such as humidity, moisture, nutrients and substrates), whether natural or caused by man, which conditions may vary significantly over relatively short periods of time.

Methodologies. Currently, mold assessment methodologies and protocols in Texas are governed by persuasive guidelines (rather than promulgated federal/state or local regulations). Presently, there is no data that supports a threshold limit or dose-response relationship for exposure to mold aeroallergens, individual pathogens, opportunistic pathogens and/or mycotoxins. The Occupational Safety and Health Administration (OSHA), the National Institute of Occupational Safety and Health (NIOSH) and other non-governmental associations, have not yet established permissible exposure limits (PELs), recommended exposure limits (RELs), or other limit values for aeroallergens. Because no limit values presently exist, SWG will not and cannot represent that the site contains no harmful microbes, mold, fungi, or their metabolites, or other latent conditions beyond those identified by the limited scope of this mold assessment.

Findings limited. Findings from a limited mold assessment are limited because of the nature of the information obtained (e.g., visual reconnaissance of readily accessible areas of building structures, interview information, anecdotal information, and limited sampling data derived from one or more specific sampling events). SWG cannot warrant the accuracy of prior or subsequent information/data, reports and services performed by other firms at the Site. SWG assumes no responsibility or liability for errors in information or data provided by or through the client or third party sources. SWG's services are not to be construed as legal or medical interpretation or advice.

Moisture Intrusion Limitation. SWG performs mold assessment services and is not a moisture intrusion, HVAC, roofing, plumbing or building envelope specialist. However, during the course of conducting its mold assessment services, SWG will report observed areas of apparent moisture intrusion. SWG does not and will not investigate the cause or causes of such observed moisture intrusion. In the event apparent moisture intrusion is observed, SWG will recommend that the client contact a specialist (i.e., plumbing contractor, building envelope specialist, HVAC contractor, water intrusion specialist, etc.) to assist the client in determining the specific cause or causes of the moisture intrusion and remedial options.

Texas Licensing Requirements. SWG (and/or its personnel) will render the services set forth in this proposal in the capacity of a Texas licensed Mold Assessor. SWG is not licensed as a Mold Remediation Contractor and does not perform mold remediation. As of January 1, 2005, Texas law has required that Mold Assessors and Mold Remediation Contractors be licensed.

Mold Remediation Certificate. For mold remediation projects (above certain size thresholds), applicable Texas law (i.e., Texas Occupation Code Section 1958.54 and T.A.C. Section 295.397 (the Texas Mold Assessment and Remediation Rules), requires that a "Certificate of Mold Remediation" be issued by the Mold Remediation Contractor upon successful completion of the project. This certificate must be provided to property owners no later than the 10th day after the date on which the mold remediation is completed at a property. The Mold Remediation Certificate issued by the Mold Remediation Contractor must include a certification by the Mold Assessor that the mold remediation project has been successfully completed in accordance with the mold remediation protocol.

Be advised that SWG's issuance of a Mold Remediation Certificate upon successful completion of a Mold Remediation project does not mean, warrant or otherwise guarantee that mold will not be subsequently found in any portion of the Investigation Area or the Site. In the event that SWG is engaged to render services in connection with a mold remediation project, SWG will require *Client to provide to SWG a signed certificate prepared by Client's moisture intrusion specialist or appropriate contractor stating that all sources of moisture which resulted in the presence of mold in the Investigation Area have been fully remediated and corrected.*

Standard of Care

SWG performed its Services in accordance with generally accepted practices of the profession undertaken in similar services at the same time and in the same geographical area. No other warranties, expressed or implied, apply to the Services hereunder or this report.

Reliance

SWG's proposal for this project, services and this report have been prepared on behalf of and for the exclusive use of Lewisville Independent School District solely for their use and reliance in assessing the presence of mold in the Investigation Areas of the site. Lewisville Independent School District is the only party to which SWG explained the risks and limitations of the services and was solely involved in shaping the scope of services. Accordingly, reliance on this report by any other party may involve assumptions leading to an unintended interpretation of findings and opinions. With the consent of the client, SWG may offer reliance to third parties

or contract with other parties to develop findings and opinions related to such party's unique risk management concerns. Notwithstanding the foregoing, reliance by any and all third parties upon the proposal, the Services or this report shall be limited in the aggregate to all relying parties to the fair market value of the Services provided by SWG.