

# Southwest GEOSCIENCE

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Dallas, Texas 75220  
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October 15, 2012

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

Re: Limited Mold Assessment Services  
Briarhill Middle School  
Library, Room 103 and Room 105  
2100 Briarhill Road  
Highland Village, Texas  
SWG Project No. 011235

## **Introduction**

Southwest Geoscience (SWG) conducted limited mold assessment activities for the Lewisville Independent School District (Lewisville I.S.D.) within the Library and rooms 103 and 105 at Briarhill Middle School located at 2100 Briarhill Road in Highland Village, Texas (hereinafter referred to as the "Site"). 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 October 12, 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 the Library and rooms 103 and 105. 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. 01121295) dated August 23, 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 October 12, 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 ranged from 74.1 to 79.1 degrees Fahrenheit while relative humidity was ranged from 38.1 to 43.3 percent. Temperature readings collected outside the building ranged from 78.6 to 82.7 degrees Fahrenheit while outside relative humidity ranged from 59.2 to 65.8 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.

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 in the drywall within random areas. 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 taken from the walls within the areas ranged from 7-12% which is considered normal by the manufacturer.

### **Air Monitoring Results**

SWG collected three (3) samples from the interior of the building and two (2) samples from the exterior of the building. The microbial samples were analyzed by Steve Moody Micro Services, Inc. (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 rooms were considerably lower and were qualitatively similar to those measured outside of the building at the time the sampling was performed. Total fungal spore concentration within the investigation areas ranged from 720 to 3,380 counts/m<sup>3</sup> while the exterior level ranged from 20,560 to 28,920 counts/m<sup>3</sup>.

One (1) type of mold was identified at a higher concentration within the Library as compared to the sample collected from the exterior of the building. *Stachybotrys* was reported as 120 counts/m<sup>3</sup> while no exterior levels were reported.

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**

SWG observed no visible mold during the assessment.

**Conclusions and Recommendations**

Based on SWG's limited assessment and the analytical results, it appears that the areas investigated were within regulated guidelines inside rooms 103 and 105. However due to the presence of *Stachybotrys*, SWG recommends that the library be cleaned and retested. 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

Analytical Results/Chain of Custody

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# IAQ Mold Report

Steve Moody Micro Services, LLC

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

## Summary

DSHS License No.: LAB0117

AIHA EMPAT ID: 102577

**Client :** Southwest Geoscience - Dallas, TX

**Lab Job No.** 12F-12225

**Project :** Briarhill Middle School Library, Room 103 & Room 105

**Report Date** 10/15/2012 2:24 PM

**Project # :** 0112235

**Sample Date :** 10/12/2012

**Sample Type:** Spore Trap, Non-cultured

**Spore Trap Type:** Zefon - Air-O-Cell

**Test Method:** Mold: ASTM D7391-09 - Standard Profile

Page 1 of 3

On 10/12/2012, five (5) 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
1	75	Exterior, West	Alternaria Ascospores Aspergillus / Penicillium Basidiospores Cerebella / Monodictys / Stemphylium / Ulocladium Cladosporium Coprinus Curvularia Drechslera / Bipolaris group Hyphal / Spore Fragments Myxomycete / Periconia / Rust / Smut Oidium / Peronospora Pithomyces Torula	520 80 3680 7120 40 11840 1240 240 280 2680 1040 40 80 40
			Total:	28920

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
2	75	Exterior	Agaricus / Agrocybe	320
			Alternaria	280
			Ascospores	120
			Aspergillus / Penicillium	2280
			Basidiospores	6280
			Cercospora / Pseudocercospora	80
			Cladosporium	8600
			Coprinus	320
			Curvularia	40
			Fusarium	80
			Hyphal / Spore Fragments	2120
			Oidium / Peronospora	40
3	150	Library * See Analytical Notes report for further details	Alternaria	80
			Ascospores	40
			Aspergillus / Penicillium	460
			Basidiospores	920
			Cladosporium	780
			Curvularia	140
			Drechslera / Bipolaris group	200
			Hyphal / Spore Fragments	540
			Myxomycete / Periconia / Rust / Smut	80
			Oidium / Peronospora	20
			Stachybotrys	120
			Total:	3380

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
4	150	Room 103	Alternaria	20
			Aspergillus / Penicillium	360
			Basidiospores	100
			Cladosporium	120
			Drechslera / Bipolaris group	180
			Hyphal / Spore Fragments	240
			Total:	1020
5	150	Room 105	Alternaria	20
			Aspergillus / Penicillium	100
			Basidiospores	160
			Cladosporium	120
			Curvularia	20
			Drechslera / Bipolaris group	60
			Hyphal / Spore Fragments	140
			Myxomycete / Periconia / Rust / Smut	100
			Total:	720

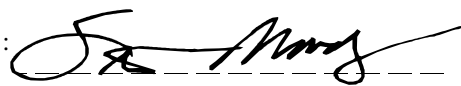
Results may not be reported except in full. Data contained in this test report relates only to the samples tested. This report does not express or imply interpretation of the results contained herein. Interpretation should be made by a qualified professional.

Steve Moody Micro Services assumes no responsibility for the manner in which these samples were collected or handled prior to being received at this laboratory. SMMS assumes no responsibility for the qualifications of personnel performing sampling and/or interpretations of this data.

Analyst(s): Rob Greene

Lab Director: Steve Moody

Approved Signatory :



Thank you for choosing Steve Moody Micro Services

# IAQ Mold Report

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

## Data Detail

DSHS License No.: LAB0117  
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Sample ID:	1			2			3			4		
Location:	Exterior, West			Exterior			Library			Room 103		
Debris Rating:	4			4			5			4		
Media Expires On:	Jul 2013			Jul 2013			Jul 2013			Jul 2013		
Notes Included?:												
Volume:	75			75			150			150		
	raw ct.	MDL	spores/m <sup>3</sup>	raw ct.	MDL	spores/m <sup>3</sup>	raw ct.	MDL	spores/m <sup>3</sup>	raw ct.	MDL	spores/m <sup>3</sup>
Agaricus / Agrocybe				8	40.00	320						
Alternaria	13	40.00	520	7	40.00	280	4	20.00	80	1	20.00	20
Ascospores	2	40.00	80	3	40.00	120	2	20.00	40			
Aspergillus / Penicillium	92	40.00	3680	57	40.00	2280	23	20.00	460	18	20.00	360
Basidiospores	178	40.00	7120	157	40.00	6280	46	20.00	920	5	20.00	100
Cercospora / Pseudocercospora				2	40.00	80						
Cerebella / Monodictys / Stemphylium / Ulocladium	1	40.00	40									
Chaetomium												
Cladosporium	296	40.00	11840	215	40.00	8600	39	20.00	780	6	20.00	120
Coprinus	31	40.00	1240	8	40.00	320						
Curvularia	6	40.00	240	1	40.00	40	7	20.00	140			
Drechslera / Bipolaris group	7	40.00	280				10	20.00	200	9	20.00	180
Fusarium				2	40.00	80						
Hyphal / Spore Fragments	67	40.00	2680	53	40.00	2120	27	20.00	540	12	20.00	240
Memnoniella												
Myxomycete / Periconia / Rust / Smut	26	40.00	1040				4	20.00	80			
Non-specified Fungal Spore(s)												
Oidium / Peronospora	1	40.00	40	1	40.00	40	1	20.00	20			
Pithomyces	2	40.00	80									
Pollen												
Stachybotrys							6	20.00	120			
Torula	1	40.00	40									
<b>TOTALS</b>	<b>723</b>		<b>28920</b>	<b>514</b>		<b>20560</b>	<b>169</b>		<b>3380</b>	<b>51</b>		<b>1020</b>
Analyst	Rob Greene			Rob Greene			Rob Greene			Rob Greene		
Analysis Date	10/15/2012			10/15/2012			10/15/2012			10/15/2012		



# IAQ Mold Report

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

## Data Detail

DSHS License No.: LAB0117  
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**Project :** Briarhill Middle School Library, Room 103 & Room 105 **Report Date :** 10/15/2012 2:24 PM  
**Project # :** 0112235 **Sample Date :** 10/12/2012  
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Sample ID:	5									
Location:	Room 105									
Debris Rating:	4									
Media Expires On:	Jul 2013									
Notes Included?:										
Volume:	150									
	raw ct.	MDL	spores/m <sup>3</sup>							
Agaricus / Agrocybe										
Alternaria	1	20.00	20							
Ascospores										
Aspergillus / Penicillium	5	20.00	100							
Basidiospores	8	20.00	160							
Cercospora / Pseudocercospora										
Cerebella / Monodictys / Stemphylium / Ulocladium										
Chaetomium										
Cladosporium	6	20.00	120							
Coprinus										
Curvularia	1	20.00	20							
Drechslera / Bipolaris group	3	20.00	60							
Fusarium										
Hyphal / Spore Fragments	7	20.00	140							
Memnoniella										
Myxomycete / Periconia / Rust / Smut	5	20.00	100							
Non-specified Fungal Spore(s)										
Oidium / Peronospora										
Pithomyces										
Pollen										
Stachybotrys										
Torula										
<b>TOTALS</b>	<b>36</b>		<b>720</b>							
Analyst	Rob Greene									
Analysis Date	10/15/2012									

# IAQ Mold Report

Steve Moody Micro Services, LLC

Data Detail

DSHS License No.: LAB0117

2051 Valley View Lane

AIHA EMPAT ID: 102577

Farmers Branch, TX 75234 Phone: (972) 241-8460

**Client :** Southwest Geoscience - Dallas, TX

**Lab Job No. :** 12F-12225

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Page 3 of 3

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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

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

## Analytical Notes

DSHS License No.: LAB0117  
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Page 1 of 1

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## Samples Analyzed

Sample No: 3 : Library  
Notes: 40% 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 Inertial 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 on ASTM D7391-09.



LAB # 102577

Chain of Custody

Page 1 of 1



Lab Job # 12F-12225 AOC:5  
 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 # of Samples: 5

Submitter / Company: Clint Jech Sample Date: 10/12/2012

Project: Briarhill Middle School Library, Room 103 & Room 105 Project #: 0112235

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: Library water spots on ceiling Tiles & water intrusion from top of windows.

Sample #	Sample Description	Vol. / Area if applicable	Location / Notes
1	Exterior, west	75	H=65.7% T=78.6 M=
2	Exterior,	75	H=57.2% T=82.7°
3	Library	150	H=41.3% T=79.9 M=7-11 Drywall
4	Room 103	150	H=38.1% T=74.1° M=10-12 Drywall/Wall corner
5	Room 105	150	H=43.3% T=77.9° M=10-12 Drywall/Wall corner
			Note: Flood From upstairs Sliver Lab.

Released By: <u>[Signature]</u>	Date / Time: <u>10/12/2012 1546</u>	Received By: <u>[Signature]</u>	Date / Time: <u>10-12-12 3:41 PM</u>
Released By: _____	Date / Time: _____	Received By: _____	Date / Time: _____

Mold Services Definitions & Limitations/  
Standard of Care and Reliance

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## Mold Services Definitions & Limitations

*"Mold" defined.* Mold is a general term used to describe various types of single-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.

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*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 10<sup>th</sup> 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

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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.