

DATE: November 1, 2016

TO: Patricia Cuckler, Principal

SUBJECT: Hedrick ES - IAQ - Initial Contact - Music Room

I received your E-mail this afternoon, about IAQ issue in the Music Room. At 1:00 PM, I inspected the Music room. The Work Order #344546: <u>"Can we get an air quality</u> <u>check for Room #310 (Music Room). It has a continuous musty feel about it."</u> I have made a P.O. request to have Apex-Titan do an Air Test. The test should be done by Friday 11/4, and we should have the results back Tuesday 11/8. If you have any questions, please contact me.

Thanks, Paul

Paul Siddall Maintenance Energy Auditor (IAQ) Facility Services Lewisville ISD 340 Lake Haven Rd Lewisville, TX 75057



DATE: November 9, 2016

TO: Trish Cuckler, Principal

SUBJECT: Hedrick ES - IAQ - Air Test Results - Music Room

On Monday 11/7, Apex-Titan Air tested the Music Room. It is typically assumed that indoor spore levels in an area with filtered or air conditioned air, and activity levels associated with schools average below the outdoor levels. Data from the airborne fungi sampling indicated that the total indoor concentration of mold/fungi in the Music Room, was **3.9%** of the outdoor levels. Utilizing this theory, the indoor concentrations are within the acceptable guidelines for areas with filtered air or air conditioning. If you have any questions, please call me. Thanks, Paul

Paul Siddall Maintenance Energy Auditor (IAQ) Facility Services Lewisville ISD 340 Lake Haven Rd Lewisville, TX 75057



November 9, 2016

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

Re: Limited Mold Assessment Services Hedrick Elementary School Music Room 1532 Bellaire Boulevard Lewisville, Texas LISD PO No. 91709987-00 Apex Project No. 725010727038

Introduction

Apex TITAN, Inc., a subsidiary of Apex Companies, LLC (APEX) conducted limited mold assessment activities for the Lewisville Independent School District (Lewisville I.S.D.) within Hedrick Elementary School located at 1532 Bellaire Boulevard in Lewisville, 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 (Lic. No. MAT1075) on November 7, 2016. Apex'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 music room. Apex'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 Apex's mold assessment or this report at this time.

Scope of Work

As set forth in Apex's Mold Assessment Proposal (No. P725010727044) dated November 4, 2016. Apex's scope-of-work was to provide visual and/or analytical mold assessment and related services in the Investigation Areas which included:

Visual Reconnaissance: Apex 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. Apex's visual reconnaissance only included readily accessible or visible portions of the Investigation Areas.

Suspect Mold Growth Sampling and Analysis: Apex 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

Apex's Mold Assessment Site reconnaissance was performed on November 7, 2016 by Mr. Clinton S. Jech. Apex's visual reconnaissance of the Investigation areas revealed the following:

Temperature and Relative Humidity

Temperature readings collected inside the room was reported as 73.4 degrees Fahrenheit while relative humidity was reported as 44.0 percent. Temperature readings collected outside the building ranged from 70.1 to 73.2 degrees Fahrenheit while outside relative humidity ranged from 78.6 to 88.6 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/workplace 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	
A	cceptable Ranges of Temperature a	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

Apex 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 rooms ranged from 8-12% which is considered normal by the manufacturer.



Air Monitoring Results

Apex collected one (1) sample from the interior of the investigation area and two (2) samples from the exterior of the building. The microbial samples were analyzed by Steve Moody Micro Services, LLC (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 indicated that total airborne mold spores in the classroom was lower as compared to those measured outside of the building at the time the sampling was performed. The total fungal spore concentration within the investigation area was reported as 354 counts/m³, while the exterior level ranged from 4,347 to 8,995 counts/m³.

Six types of mold were identified at a higher concentration within the investigation area as compared to the samples collected from the exterior of the building. Air sample(s) collected within the music room reported Drechslera/Bipolaris group as 133 counts/m³, Hyphal/Spore Fragments as 127 counts/m³, Curvularia as 20 counts/m³, Nigrospora as 7 counts/m³, Pithomyces as 7 counts/m³ and Alternaria as 7 counts/m³ 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

No visible mold was observed during the assessment. No odors or excessive dust were noted.

Conclusions and Recommendations

Based on Apex's limited assessment and the analytical results collected, it appears that the indoor air quality, as it relates to airborne fungi was within recommended guidelines on the day of the assessment.

If you have any questions regarding this report or if we can assist you with any other matter, please contact the undersigned at (469) 365-1140.

Sincerely, **Apex TITAN, Inc.**

Clinton. S. Jech Manager, Field Services Texas Mold Assessment Technician, Lic. No. MAT1075

Darren G. Bowden Senior Program Manager Texas Mold Assessment Consultant Lic. No. MAC0321

Attachments: Analytical Results/Chain of Custody, Mold Services Definitions & Limitations



ATTACHMENT 1

Analytical Results/Chain of Custody



Moody Labs

IAQ Mold Report

Summary

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

2051 Valley View Lane

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

Client : Apex Titan, Inc. - Dallas

Project : Hedrick ES, Music Room

725010727038 Project # :

Sample Type: Spore Trap, Non-cultured

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

Lab Job No.: 16F-14095 **Report Date :** 11/09/2016 11:07 AM Sample Date : 11/07/2016

Spore Trap Type: Zefon - Air-O-Cell

Page 1 of 2

On 11/7/2016, three (3) samples were submitted by Clint Jech of Apex Titan, Inc. - Dallas (located at 12100 Ford. Rd., Suite 401, Farmers Branch, TX 75234) 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			ntration
1	150	Exterior, Northwest	Basidiospores		3400	78%
			Ascospores		354	8%
			Cladosporium		300	7%
			Aspergillus / Penicillium		273	6%
			Myxomycete / Rust / Smut		20	<1%
				Total:	4347	100%
2	150	Exterior, Northeast	Basidiospores		8400	93%
			Ascospores		414	5%
			Cladosporium		87	<1%
			Aspergillus / Penicillium		67	<1%
			Myxomycete / Rust / Smut		20	<1%
			Pestalotia / Pestalotiopsis		7	<1%
				Total:	8995	100%
3	150	Music Room	Drechslera / Bipolaris group		133	38%
			Hyphal / Spore Fragments		127	36%
			Curvularia		20	6%
			Cladosporium		20	6%
			Myxomycete / Rust / Smut		13	4%
			Aspergillus / Penicillium		13	4%
			Nigrospora		7	2%
			Pithomyces		7	2%
			Ascospores		7	2%
			Alternaria		7	2%
				Total:	354	100%

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IAQ Mold Report

Summary

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Page 2 of 2

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1	/olume (liters)	Sample Description	Identificatio	on	Concentration spores/cubic meter
Results may not be reported e	xcept in full.	Data contained in this test report relates only to the should be made by a qualified professional.	samples tested. This report does not expres	ss or imply interpretation	of
Moody Labs assumes no respo	onsibility for t	the manner in which these samples were collected o		ooratory. Moody Labs	
Analyst(s): Nina N		ions of personnel performing sampling and/or interp		cD.	
Lab Manager : Heat		A	pproved Signatory :	atheJep	>
Lab Director : Bruc		А	pproved Signatory :	\$. Ø.	/

Moody Labs

IAQ Mold Report

Data Detail

2051 Valley View Lane

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

Client : Apex Titan, Inc. - Dallas

Project : Hedrick ES, Music Room

Project # : 725010727038

Sample Type: Spore Trap, Non-cultured

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

Lab Job No. : 16F-14095 Report Date : 11/09/2016 11:07 AM Sample Date : 11/07/2016

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	
Location:	E	Exterior	, Northwest		E	Exterior	, Northeast			Mus	ic Room	
Media Expires On:		Se	p 2017			Se	p 2017			Se	p 2017	
Notes Included:												
Volume:			150				150				150	
	raw ct.	MDL	spores/m ³		raw ct.	MDL	spores/m ³		raw ct.	MDL	spores/m ³	
Alternaria									1	6.67	7	2%
Ascospores	53	6.67	354	8%	62	6.67	414	5%	1	6.67	7	2%
Aspergillus / Penicillium	41	6.67	273	6%	10	6.67	67	<1%	2	6.67	13	4%
Basidiospores	102	33.33	3400	78%	210	40.00	8400	93%				
Chaetomium												
Cladosporium	45	6.67	300	7%	13	6.67	87	<1%	3	6.67	20	6%
Curvularia									3	6.67	20	6%
Drechslera / Bipolaris group									20	6.67	133	38%
Hyphal / Spore Fragments									19	6.67	127	36%
Memnoniella												
Myxomycete / Rust / Smut	3	6.67	20	<1%	3	6.67	20	<1%	2	6.67	13	4%
Nigrospora									1	6.67	7	2%
Pestalotia / Pestalotiopsis					1	6.67	7	<1%				
Pithomyces									1	6.67	7	2%
Stachybotrys												
TOTALS	244		4347	100%	299		8995	100%	53		354	100%
Analyst		Nin	a Mims			Nin	a Mims			Nin	a Mims	
Analysis Date		11/	/9/2016			11/	9/2016			11/	/8/2016	
Debris Rating			2				1				4	
Debris Composition												
Fibers			1/5				1/5				2/5	
Inorganic/Other			1/5				1/5				3/5	
Insect Parts			0/5				0/5				0/5	
Pollen			0/5				0/5				0/5	
Skin/Dander			0/5				0/5				4/5	

End of Data Detail section 16F-14095

SMLMS v11.90

IAQ Mold Report Moody Labs **Analytical Notes** DSHS License No.: LAB0117 2051 Valley View Lane AIHA EMPAT ID: 102577 Farmers Branch, TX 75234 Phone: (972) 241-8460 **Client :** Apex Titan, Inc. - Dallas Lab Job No.: 16F-14095 **Project :** Hedrick ES, Music Room **Report Date :** 11/09/2016 11:07 AM 725010727038 **Project # :** Sample Date : 11/07/2016 Sample Type: Spore Trap, Non-cultured Spore Trap Type: Zefon - Air-O-Cell Test Method: Mold: ASTM D7391-09 - Standard Profile Page 1 of 2 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. NOTE: No abnormalities or exceptions noted during analysis. All samples suitable for analysis. NOTE: No discernable field blanks were included with this sample set. Methods Method: ASTM D7391-09. A standard spore trap reading consists of a 30% reading for small spores; 100% of the sample is read for medium and large spores. A 100% reading is provided for containment samples, upon request, or otherwise as noted. Use final spore concentrations, not raw spore counts, for interpretation of results. Calculation: Spores/cubic meter = (Raw spore count)*(MDL) Note: MDL (Minimum Detection Limit) is calculated based upon 1 raw spore count. Moody Labs recommends two significant figures for calculated values based on ASTM D7391-09. This report must not be used by the customer to claim product certification, approval, or endorsement by AIHA, ISO, or any agency of the Federal Government. **Debris Rating Key** 0 - No linear trace detected 1 - Trace particulate/debris 2 - Light particulate/debris 3 - Moderate particulate/debris. 4 - Substantial particulate/debris 5 - Extensive particulate/debris 6 - Field blank 10 - Hold Sample 11 - Modified Analysis per Client Instructions NOTE: Particulate/debris are defined as skin, fibers, pollen grains, insect parts, fungal and/or other non-fungal particles.

Moody Labs	IAQ Mold Report
WOOUG Labs	Analytical Notes DSHS License No.: LAB0117
2051 Valley View Lane	AIHA EMPAT ID: 102577
Farmers Branch, TX 75234 Phone: (9	972) 241-8460
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Statewide Historically Underutilized Business Progra	TEXAS Department of State Health Services License # LAB0117
End of Analytical Notes section 16F-14095	

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<u> </u>	Immediate 🗌 1 day 🗍 Analy: 0) Immediate 🗌 1 day	ze All	Positive Stop	Standard Expanded Culture*	l Air d Air *	Immediate Immediate Immediate	🗌 1 day 🗌 1 day	☐ 2 day 2 day ☐ 2 day ☐ 2 day
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ATTACHMENT 2

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 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 Apex'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 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, Apex 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). Apex cannot warrant the accuracy of prior or subsequent information/data, reports and services performed by other firms at the Site. Apex assumes no responsibility or liability for errors in information or data provided by or through the client or third party sources. Apex's services are not to be construed as legal or medical interpretation or advice.

Moisture Intrusion Limitation. Apex 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, Apex will report observed areas of apparent moisture intrusion. Apex does not and will not investigate the cause or causes of such observed moisture intrusion. In the event apparent moisture intrusion is observed, Apex 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.

Standard of Care

Apex 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

Apex'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 Apex 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, Apex 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 Apex.

