

DATE: April 21, 2017

TO: Lisa Moore, Executive Director

**SUBJECT:** Bolin - IAQ - Results report - Payroll - Moore Office - Dragisic Office -Large Room, Storage Room, Copy Room

On Tuesday 4/4 and Friday 4/7, Apex-Titan Air tested the Large Office Room, Storage Room, Copy Room, Lisa Moore's Office and Ann Dragisic's Office. 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 Large Office Room, was **4.6%**, Storage Room, was **3.6%**, Copy Room, was **3.1%**, Lisa Moore's Office, was **10.0%**, and Ann Dragisic's Office, was **5.0%** 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



April 19, 2017

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

Re: Limited Mold Assessment Services Bolin Administrative Center Payroll Department Large Room, Storage Room, Copy Room & Two Offices 1565 W. Main Street Lewisville, Texas LISD PO No. 91730237-00 Apex Project No. 725010727066

### 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 the Bolin Administrative Center located at 1565 W. Main Street 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) and Mr. Darren G. Bowden, a State of Texas licensed Mold Consultant (Lic. No. MAC0321) from April 4 through April 7, 2017 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 Payroll Department Large Room, Storage Room, Copy Room and Two Offices. 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. P725010727076) dated April 3, 2017. 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' Mold Assessment Site reconnaissance was performed on April 4 and April 7, 2017 by Mr. Clinton S. Jech and on April 5, 2017 by Mr. Darren G. Bowden. Apex's visual reconnaissance of the Investigation areas revealed the following:

### Temperature and Relative Humidity

### April 4, 2017

Temperature readings collected inside the payroll department ranged from 72.5 to 73.9 degrees Fahrenheit while relative humidity ranged from 38.8 to 41.5 percent. Temperature readings collected outside the building ranged from 83.3 to 83.8 degrees Fahrenheit while outside relative humidity ranged from 27.6 to 28.2 percent.

### April 7, 2017

Temperature readings collected inside the payroll department offices ranged from 72.3 to 73.2 degrees Fahrenheit while relative humidity ranged from 31.2 to 31.3 percent. Temperature readings collected outside the building ranged from 65.1 to 66.9 degrees Fahrenheit while outside relative humidity ranged from 29.7 to 32.1 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/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									
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							

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

### April 4, 2017

Moisture meter readings taken from the walls within the payroll copy room, payroll storage room and payroll large main room ranged from 9-12% which is considered normal by the manufacturer.

### April 7, 2017

Moisture meter readings taken from the walls within the payroll offices ranged from 7-10% which is considered normal by the manufacturer.

### Air Monitoring Results

Apex collected five (5) samples from the interior of the investigation area and four (4) 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.

### <u>April 4, 2017</u>

Air testing performed using spore traps indicated that total airborne mold spores in the payroll copy room, payroll storage room and payroll large main room were 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 ranged from 247 to 374 counts/m<sup>3</sup>, while the exterior level ranged from 6,173 to 8,076 counts/m<sup>3</sup>.

### Payroll Copy Room

One (1) type of mold was 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 payroll copy room reported Aspergillus/Penicillium was reported as 60 counts/m<sup>3</sup> while exterior levels were reported as 53 counts/m<sup>3</sup>.

### Payroll Large Main Room

One (1) type of mold was 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 payroll large main room reported Aspergillus/Penicillium was reported as 60 counts/m<sup>3</sup> while exterior levels were reported as 53 counts/m<sup>3</sup>.

### <u>April 7, 2017</u>

Air testing performed using spore traps indicated that total airborne mold spores in the payroll offices were 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 ranged from 127 to 254 counts/m<sup>3</sup>, while the exterior level ranged from 2,175 to 2534 counts/m<sup>3</sup>.



### Payroll Department/Anne Dragisic's Office

Two (2) types of mold were identified at a higher concentration within the investigation area as compared to the sample collected from the exterior of the building. Air sample(s) collected within the payroll department/Anne Dragisic's office reported Pestalotia/Pestalotiopsis as 7 counts/m<sup>3</sup> and Pithomyces was reported as 7 counts/m<sup>3</sup> while no exterior levels were reported.

### Payroll Department/Lisa Moore's Office

One (1) type of mold was 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 payroll department/Lisa Moore's office reported Drechslera/Bipolaris Group as 7 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).

### <u>April 5, 2017</u>

### Material Characterization

Mr. Darren G. Bowden collected one (1) sample of a black material on CMU block within the warehouse. The sample was analyzed by Cates Laboratories for material characterization. The sample was examined utilizing the stereo microscope under reflected light, and the polarized light microscope (PLM) was utilized to examine the sample material in grain mounts.

The samples consisted of blocky moderately friable non-fibrous carbon material. No mold was identified.

### Suspect Mold

No visible mold growth was observed at the time of 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 assessments.



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

Ende

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 La	bs

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 Lab Job No. : 17F-04160 Report Date : 04/05/2017

**Project :** Storage Room, Copy Room, and Large Main Room in Payroll 725010727066 Project # :

Sample Type: Spore Trap, Non-cultured

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

2:53 PM Sample Date: 04/04/2017

Spore Trap Type: Zefon - Air-O-Cell

Page 1 of 3

On 4/4/2017, five (5) 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 ubic meter
1	150	Exterior, Southeast * See Analytical Notes report for further details	Cladosporium Ascospores Hyphal / Spore Fragments - Dematiaceous Myxomycete / Rust / Smut Basidiospores Alternaria Cercospora Aspergillus / Penicillium	4960 240 213 213 160 147 100 53	80% 4% 3% 3% 3% 2% 2% <1%
			Oidium Drechslera / Bipolaris group Nigrospora Epicoccum Fusarium Total:	27 27 13 13 7 6173	<1% <1% <1% <1% <1%
2	150	Exterior, Southwest * See Analytical Notes report for further details	Cladosporium Ascospores Alternaria Myxomycete / Rust / Smut Hyphal / Spore Fragments - Dematiaceous Basidiospores Cercospora Drechslera / Bipolaris group Epicoccum Aspergillus / Penicillium Stemphylium Oidium	6750 400 273 213 140 133 100 27 13 13 7 7	84% 5% 3% 2% 2% 1% <1% <1% <1% <1%
			Total:	8076	100%



# 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

Lab Job No. : 17F-04160 Report Date : 04/05/2017 2

**Project :** Storage Room, Copy Room, and Large Main Room in Payroll

**Project # :** 725010727066

Sample Type: Spore Trap, Non-cultured

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

**Report Date :** 04/05/2017 2:53 PM **Sample Date:** 04/04/2017

Spore Trap Type: Zefon - Air-O-Cell

Page 2 of 3

On 4/4/2017, five (5) 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
3	150	Payroll Storage Room	Hyphal / Spore Fragments - Dematiaceous		127	44%
			Cladosporium		80	28%
			Ascospores		27	9%
			Aspergillus / Penicillium		20	7%
			Myxomycete / Rust / Smut		13	5%
			Basidiospores		13	5%
			Alternaria		7	2%
				Total:	287	100%
4	150	Payroll Copy Room	Hyphal / Spore Fragments - Dematiaceous		73	30%
			Aspergillus / Penicillium		60	24%
			Myxomycete / Rust / Smut		47	19%
			Cladosporium		27	11%
			Ascospores		20	8%
			Alternaria		13	5%
			Drechslera / Bipolaris group		7	3%
				Total:	247	100%

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**Project :** 

Project # :

# **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

725010727066

Lab Job No.: 17F-04160

Sample Type: Spore Trap, Non-cultured

Storage Room, Copy Room, and Large Main Room in Payroll

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

Spore Trap Type: Zefon - Air-O-Cell

Page 3 of 3

On 4/4/2017, five (5) 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
5	150	Payroll Large Main Room	Cladosporium Hyphal / Spore Fragments - Dematiaceous	113 100	30% 27%
			Aspergillus / Penicillium	60	16%
			Ascospores	53	14%
			Myxomycete / Rust / Smut	27	7%
			Epicoccum	7	2%
			Basidiospores	7	2%
			Alternaria	7	2%
			Total:	374	100%
		<ol> <li>Data contained in this test report relates only to the n should be made by a qualified professional.</li> </ol>	e samples tested. This report does not express or imply interpretat	ion of	
		or the manner in which these samples were collected or cations of personnel performing sampling and/or interp	or handled prior to being received at this laboratory. Moody Labs pretations of this data.		
Analyst(s): Nina	a Mims		Marthe L	, b	
Lab Manager : He	eather Log	pez A	approved Signatory :	12	
Lab Director : Br	uce Crabl	D A	approved Signatory : Acathe La approved Signatory : Benne Call	ļ	
		Thank you for choosing	g Moody Labs	SI	MLMS v12.10

Report Date : 04/05/2	017 2:53	PM
Sample Date: 04/04/20	017	

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Data Detail

2051 Valley View Lane

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

Client : Apex Titan, Inc. - Dallas

**Project :** Storage Room, Copy Room, and Large Main Room in Payroll

**Project # :** 725010727066

Sample Type: Spore Trap, Non-cultured

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

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

Lab Job No. : 17F-04160 Report Date : 04/05/2017 2:53 PM

Sample Date: 04/04/2017

Spore Trap Type: Zefon - Air-O-Cell

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:	Exterior, Southeast			Exterior, Southwest			Payroll Storage Room					
Media Expires On:	Nov 2017			Nov 2017			Nov 2017					
Notes Included:	S	ee Ana	lytical Notes	5	S	ee Ana	lytical Notes	S				
Volume:			150				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>	
Alternaria	22	6.67	147	2%	41	6.67	273	3%	1	6.67	7	2%
Ascospores	36	6.67	240	4%	60	6.67	400	5%	4	6.67	27	9%
Aspergillus / Penicillium	8	6.67	53	<1%	2	6.67	13	<1%	3	6.67	20	7%
Basidiospores	24	6.67	160	3%	20	6.67	133	2%	2	6.67	13	5%
Cercospora	15	6.67	100	2%	15	6.67	100	1%				
Chaetomium												
Cladosporium	124	40.00	4960	80%	135	50.00	6750	84%	12	6.67	80	28%
Drechslera / Bipolaris group	4	6.67	27	<1%	4	6.67	27	<1%				
Epicoccum	2	6.67	13	<1%	2	6.67	13	<1%				
Fusarium	1	6.67	7	<1%								
Hyphal / Spore Fragments - Dematiac	32	6.67	213	3%	21	6.67	140	2%	19	6.67	127	44%
Hyphal / Spore Fragments - Hyaline												
Memnoniella												
Myxomycete / Rust / Smut	32	6.67	213	3%	32	6.67	213	3%	2	6.67	13	5%
Nigrospora	2	6.67	13	<1%								
Oidium	4	6.67	27	<1%	1	6.67	7	<1%				
Stachybotrys												
Stemphylium					1	6.67	7	<1%				
TOTALS	306		6173	100%	334		8076	100%	43		287	100%
Analyst		Nin	a Mims		Nina Mims			Nina Mims				
Analysis Date	4/5/2017		4/5/2017				4/	5/2017				
Debris Rating	2				3				3			
Debris Composition												
Fibers	1/5			0/5					1/5			
Inorganic/Other	2/5			3/5					2/5			
Insect Parts	1/5			1/5			0/5					
Pollen			1/5		2/5			0/5				
Skin/Dander			2/5				0/5				3/5	

# Moody Labs

Moody Labs	
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Data Detail

2051 Valley View Lane

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

Client : Apex Titan, Inc. - Dallas

Project : Storage Room, Copy Room, and Large Main Room in Payroll

**Project # :** 725010727066

Sample Type: Spore Trap, Non-cultured

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

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

Lab Job No. : 17F-04160 Report Date : 04/05/2017 2:53 PM Sample Date: 04/04/2017

Spore Trap Type: Zefon - Air-O-Cell

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:	4			5						
Location:	Payroll Copy Room			Payroll Large Main Room						
Media Expires On:		No	v 2017			No	v 2017			
Notes Included:										
Volume:			150				150			
	raw ct.	MDL	spores/m <sup>3</sup>		raw ct.	MDL	spores/m <sup>3</sup>			
Alternaria	2	6.67	13	5%	1	6.67	7	2%		
Ascospores	3	6.67	20	8%	8	6.67	53	14%		
Aspergillus / Penicillium	9	6.67	60	24%	9	6.67	60	16%		
Basidiospores					1	6.67	7	2%		
Cercospora										
Chaetomium										
Cladosporium	4	6.67	27	11%	17	6.67	113	30%		
Drechslera / Bipolaris group	1	6.67	7	3%						
Epicoccum					1	6.67	7	2%		
Fusarium										
Hyphal / Spore Fragments - Dematiac	11	6.67	73	30%	15	6.67	100	27%		
Hyphal / Spore Fragments - Hyaline										
Memnoniella										
Myxomycete / Rust / Smut	7	6.67	47	19%	4	6.67	27	7%		
Nigrospora										
Oidium										
Stachybotrys										
Stemphylium										
TOTALS	37		247	100%	56		374	100%		
Analyst		Nin	a Mims		Nina Mims					
Analysis Date	4/5/2017			4/5	5/2017					
Debris Rating			3				2			
Debris Composition										
Fibers	1/5				1/5		 	 		
Inorganic/Other			2/5		2/5					
Insect Parts			0/5		1/5				 	
Pollen	1/5			1/5				 		
Skin/Dander			3/5				2/5			

End of Data Detail section

17F-04160

SMLMS v12.10

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Mandre	IAQ Mold Repor	rt
Moody I	Analytical Notes	DSHS License No.: LAB0117
2051 Valley	View Lane	AIHA EMPAT ID: 102577
Farmers Bran	uch, TX 75234 Phone: (972) 241-8460	
Client :	Apex Titan, Inc Dallas	Lab Job No.: 17F-04160
Project :	Storage Room, Copy Room, and Large Main Room in Payroll	<b>Report Date :</b> 04/05/2017 2:53 PM
Project # :	725010727066	Sample Date : 04/04/2017
Sample Type	e: 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 consi	sts of three sections; a summary section, a data detail section, and an analytical no	tes section. Results may not be reported except in full.
Samples A	nalyzed	
Sample No	1 : Exterior, Southeast	
Notes:	Please note: the minimum detection limit for Cladosporium is	s 40 spores / cubic meter. When comparing

Notes:	Please note: the minimum detection limit for Cladosporium is 40 spores / cubic meter. When comparing results to other samples, use calculated results, not raw numbers.
Sample No	2 : Exterior, Southwest
Notes:	Please note: the minimum detection limit for Cladosporium is 50 spores / cubic meter. When comparing results to other samples, use calculated results, not raw numbers.

### **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. 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**

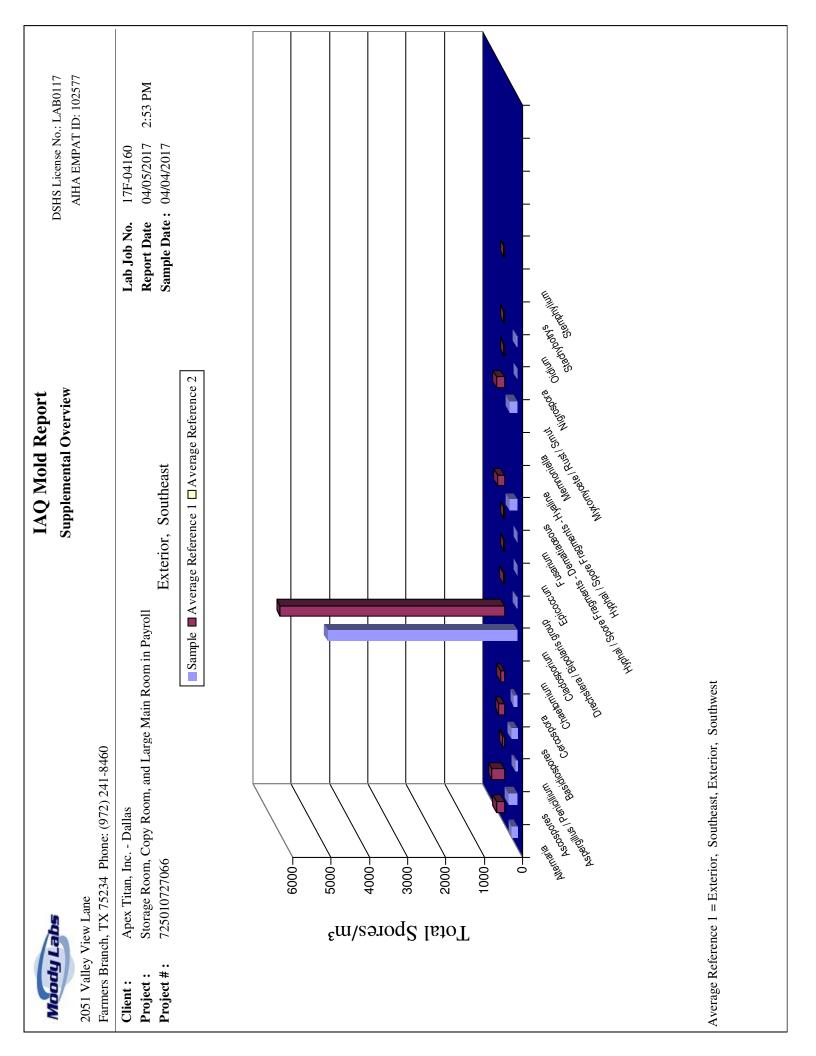
- 0 No linear trace detected
- 1 Trace particulate/debris
- 2 Light particulate/debris
- 3 Moderate particulate/debris.
- 4 Substantial particulate/debris
- 5 Extensive particulate/debris
- 6 Field blank
- 10 Hold Sample
- 11 Modified Analysis per Client Instructions

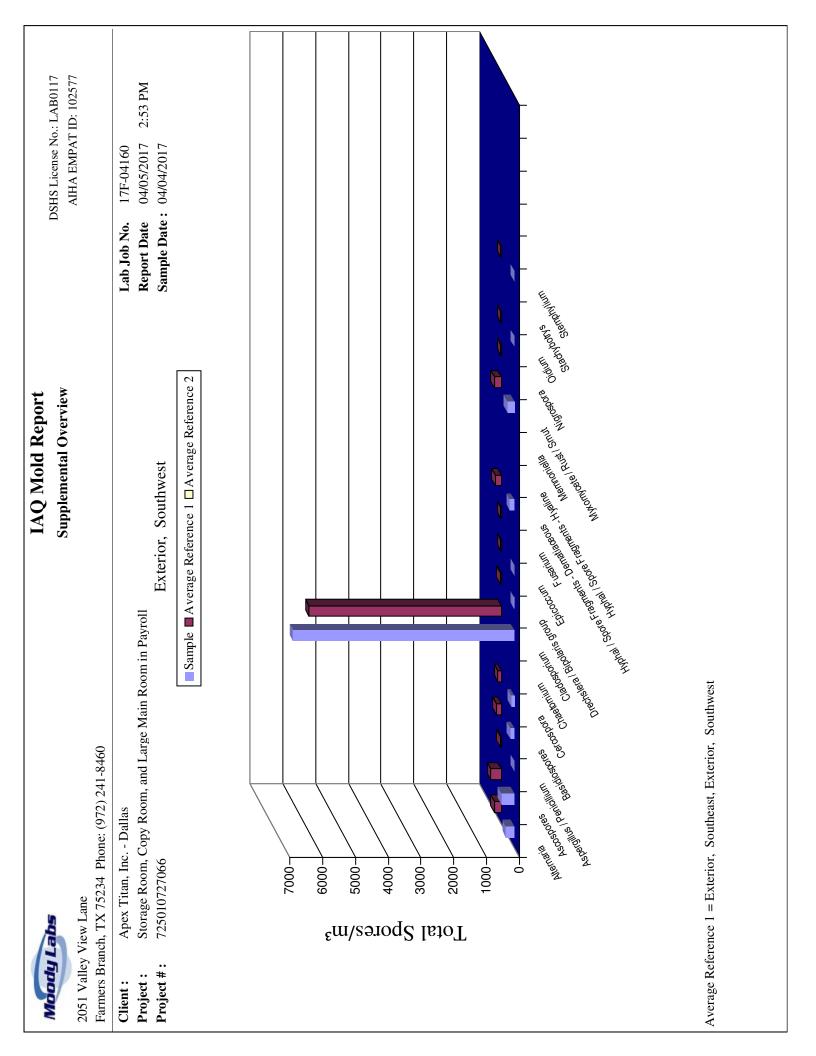
NOTE: Particulate/debris are defined as skin, fibers, pollen grains, insect parts, fungal and/or other non-fungal particles.

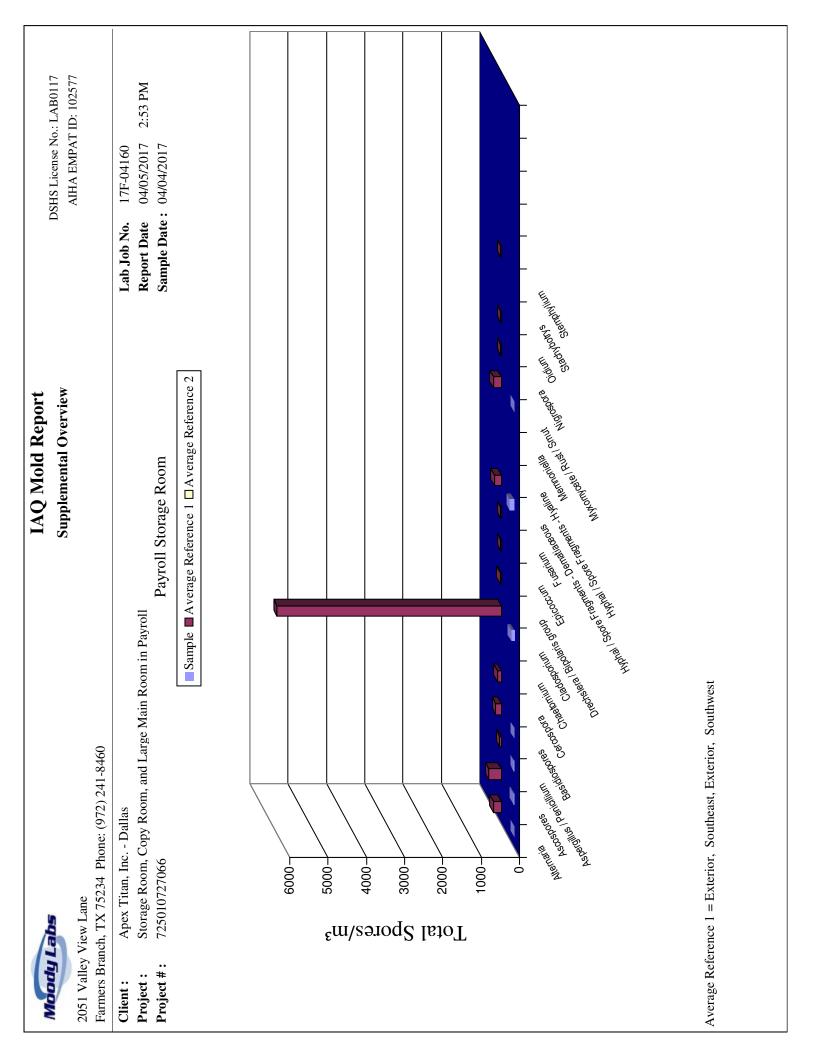
IAQ Mold Report					
Moody Labs	Analytical Notes				
2051 Velley View Lone	Analytical Notes	DSHS License No.: LAB0117			
2051 Valley View Lane Farmers Branch, TX 752	34 Phone: (972) 241-8460	AIHA EMPAT ID: 102577			
-	an, Inc Dallas	Lab Job No. : 17F-04160			
•	Room, Copy Room, and Large Main Room in Payroll	<b>Report Date :</b> 04/05/2017 2:53 PM			
<b>Project # :</b> 72501072		Sample Date : 04/04/2017			
Sample Type: Spore Tr		Spore Trap Type: Zefon - Air-O-Cell			
	STM D7391-09 - Standard Profile etions; a summary section, a data detail section, and an analytical note	Page 2 of 2			
	atons, a summary section, a data detail section, and an analytical note	section. Results may not be reported except in run.			
	AIHA LAP, LLC ACCREDITED LABORATOR ENVIRONMENTAL MICROBIOLOGY ISO/IEC 17025:2005 WWW.AIHAACCREDITEDLABS.ORG	Y			
	LAB # 102577				
Statewide Historically Underutilize	Business Program	Certified WBEN Women's Business Enterprise			
End of Analytical Notes section 17F-04160					

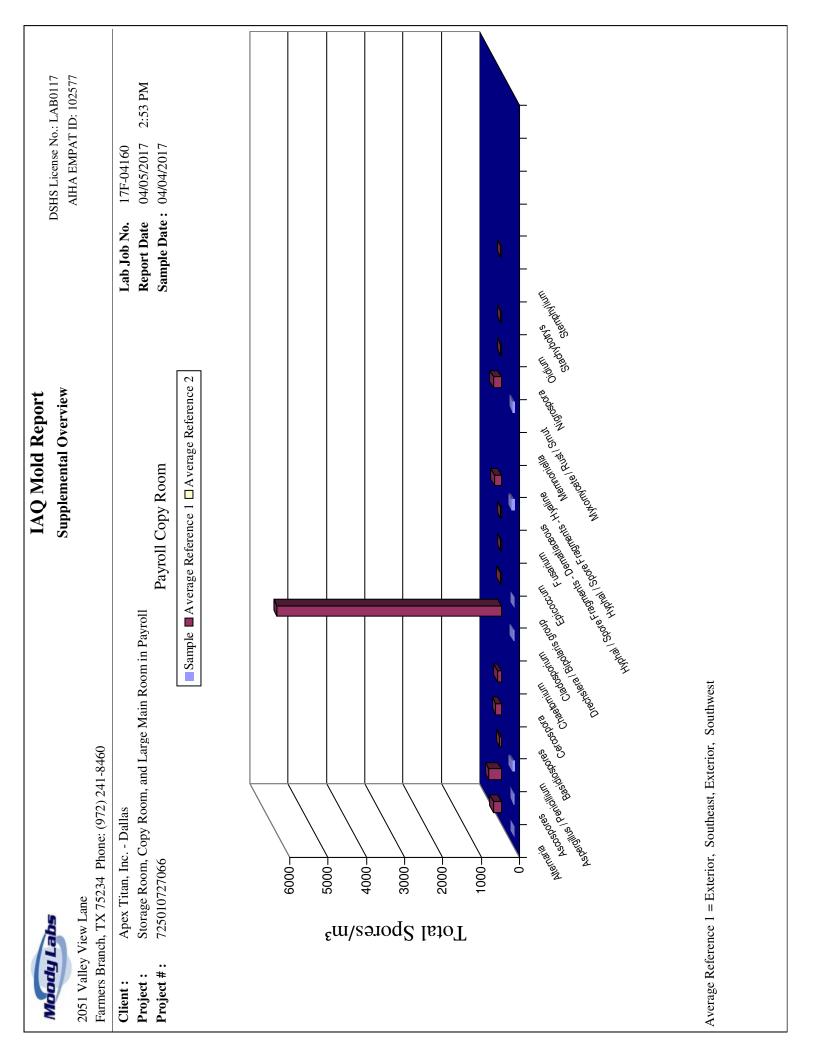
SMLMS v12.10

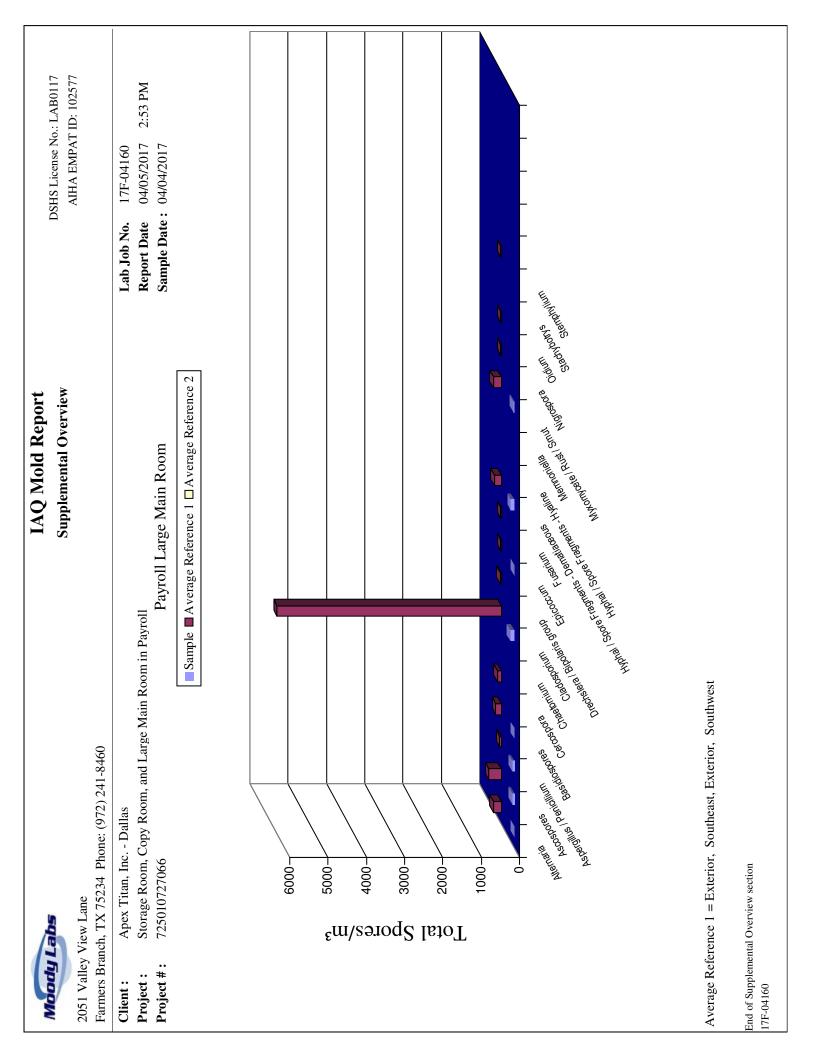
			-								
DSHS License No.: LAB0117 AIHA EMPAT ID: 102577	Lab Job No.         17F-04160           Report Date         04/05/2017         2:53 PM           Sample Date:         04/04/2017										
IAQ Mold Report Supplemental Overview											
<i>Moody Labs</i> 2051 Valley View Lane Farmers Branch, TX 75234 Phone: (972) 241-8460	Apex Titan, Inc Dallas Storage Room, Copy Room, and Large Main Room in Payroll 725010727066										outmiest score Room Room Main Room Particilization Proom
e 5234 Phon	Apex Titan, Inc Dallas Storage Room, Copy Roc 725010727066				۱ــــــــــــــــــــــــــــــــــــ	\ \ \	l		!		0,
iew Lane h, TX 75	Apex T Storage 725010	-0006	8000-	-000	6000-		4000-	3000-	2000	1000	Exterior, Southeast
<i>Moody Labs</i> 2051 Valley View Lane Farmers Branch, TX 755	Client : Project : Project # :			*	<sub>8</sub> W/Si	<b>bore</b>	otal S	рТ			v













ASBESTOS PLM

Bulk

# Chain of Custody

🗌 Immediate 🗌 1 day 📋 2 day 🔲 3 day 🔲 5 day

Labs <u>Cha</u>	ain of Custod	Lab.	Job # Job # Job #	0416	0 1005
*Please call in advance for imm	nediate, after-hour, &	weekend pricing & ava MOLD	ilability.*	Page	e of
nmediate 🗌 1 day 📋 2 day	☐ 3 day ☐ 5 day ☐ <b>Positive Stop</b>	Direct Exam Standard Air Expanded Air	<ul> <li>Immediate</li> <li>Immediate</li> <li>Immediate</li> </ul>	□ 1 day □ 1 day □ 1 day	☐ 2 day ☑ 2 day ☐ 2 day
nmediate 🗌 1 day 🔲 2 day 500/0600)	🗌 3 day 🔲 5 day	Culture** Analyze Blanks	10-14 days Yes	□ No	
1 day 2 day		**Turnaround of Cuit BACTERIA** Colony Counts (Co			re Growth**

PCM Air (7400)	Te 1 day 2 day	Positive Stop     3 day     5 day	Standard Air Expanded Air Culture**	Immediate	
TOTAL DUST(0500/0         ASBESTOS TEM         Air AHERA Method         Air 7402 (Modified)	1 day       2 day         1 day       2 day         Late Night*       6 hr         1 day       2 day         1 May       1 May         1 May       1 May         1 May       1 May	☐ 12 hr ☐ 24 hr ☐ 3 day ☐ 3 day ☐ 5 day	Analyze Blanks **Turnaround of Cult BACTERIA** Colony Counts (Co CC + Gram Stain Coliform & E. coli Legionella OTHER:	C)	<ul> <li>No</li> <li>ject to Culture Growth**</li> <li>3 day □ 5 day</li> <li>3 day □ 5 day</li> <li>2-3 day</li> <li>14 days</li> </ul>
Billing Company / City	Apex Titen ;	Inc		# of Sampl	les:5
Submitter's Company:					te: <u>4/4/2017</u>
Submitter's Name:					72501072706
Project: Storage K	Come, Copy Room	- Lurge Main Roa	m in Payrol Dema		1201092706
Contact Information:	Name: Clint Je	ch	<b>_</b>		972) 989-1031
E-mail Results to:	+ Darren /Vero	nica	······································		12/101-103
Invoice Address: Vec	onicn			P.O. #:	e requests may incur additional fees*
Alotoo, a community of a second	المالية المريكة ويتعارض والمحصوف المستعمد المالي				

Notes:

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
1	Exterior, Southeast	150	7=83.8 · H=27.6 %
2	Esterier, Southway	150	T- 83.4 " H-28.2 %
3	Payron Storage Roam	150	T= \$2.5 "H= 40.1 %- M= 11-12 1
			Ceilings = Lag-in Certing Time
			Walter Shentrock
4	Payroll Capy Room	150	Hoor - Hoor Jile
			T=73.9 " H= 38.8 %. M= 9-12 %.
			Nulles Sheetrock
			Stoorse Hoor Jile
5	Paynow Large Main Room	150	T= #2.5 + H= 44.5 1. M= 11-12 %
			Ceikings - Lay - 10 Carling Tite
			Wulls - Shertrouk
			Floois - Caspat
Released B	stallow 1501	Received By	Date / Time:
· · · · · · · · · · · · · · · · · · ·		Received By:	Date / Time:

|--|

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 :** Bolin Administration Payroll Offices

**Project # :** 725010727066

Sample Type: Spore Trap, Non-cultured

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

Lab Job No. : 17F-04314 Report Date : 04/10/2017 3:09 PM Sample Date: 04/07/2017

Spore Trap Type: Zefon - Air-O-Cell

Page 1 of 3

On 4/7/2017, four (4) 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		entration
1	150	Exterior, Southeast	Cladosporium	954	44%
			Basidiospores	867	40%
			Ascospores	160	7%
			Hyphal / Spore Fragments - Dematiaceous	53	2%
			Aspergillus / Penicillium	47	2%
			Coprinus group	33	2%
			Myxomycete / Rust / Smut	20	<1%
			Cercospora	13	<1%
			Spegazzinia	7	<1%
			Oidium	7	<1%
			Nigrospora	7	<1%
			Alternaria	7	<1%
			Tota	1: 2175	100%
2	150	Exterior, Southwest	Cladosporium	1167	46%
			Basidiospores	854	34%
			Ascospores	227	9%
			Alternaria	80	3%
			Myxomycete / Rust / Smut	73	3%
			Hyphal / Spore Fragments - Dematiaceous	60	2%
			Coprinus group	33	1%
			Epicoccum	20	<1%
			Aspergillus / Penicillium	13	<1%
			Oidium	7	<1%
			Tota	1: 2534	100%

AIHA EMPAT ID: 102

# 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 : Bolin Administration Payroll Offices

**Project # :** 725010727066

Sample Type: Spore Trap, Non-cultured

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

Lab Job No. : 17F-04314 Report Date : 04/10/2017 3:09 PM Sample Date: 04/07/2017

Spore Trap Type: Zefon - Air-O-Cell

Page 2 of 3

On 4/7/2017, four (4) 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
3	150	Anne Dragisic's Office	Hyphal / Spore Fragments - Dematiaceous		33	26%
			Cladosporium		33	26%
			Basidiospores		20	16%
			Ascospores		13	10%
			Pestalotia / Pestalotiopsis		7	6%
			Pithomyces		7	6%
			Myxomycete / Rust / Smut		7	6%
			Alternaria		7	6%
				Total:	127	100%
4	150	Lisa Moore's Office	Basidiospores		53	21%
			Hyphal / Spore Fragments - Dematiaceous		40	16%
			Cladosporium		40	16%
			Aspergillus / Penicillium		33	13%
			Ascospores		33	13%
			Myxomycete / Rust / Smut		20	8%
			Oidium		7	3%
			Nigrospora		7	3%
			Epicoccum		7	3%
			Drechslera / Bipolaris group		7	3%
			Alternaria		7	3%
				Total:	254	100%

Moody La	<b>b</b> 5

**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 : Bolin Administration Payroll Offices** 

725010727066 Project # :

Sample Type: Spore Trap, Non-cultured

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

Lab Job No.: 17F-04314 **Report Date :** 04/10/2017 3:09 PM Sample Date: 04/07/2017

Spore Trap Type: Zefon - Air-O-Cell

Page 3 of 3

On 4/7/2017, four (4) 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.

1	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
		Data contained in this test report relates only to the should be made by a qualified professional.	samples tested. This report does not express or imply interpretat	ion of
Moody Labs assumes no responsibility for t	onsibility for the qualificat	the manner in which these samples were collected of ions of personnel performing sampling and/or interp	r handled prior to being received at this laboratory. Moody Laborations of this data.	5
Analyst(s): Mushta	iq Khan		A.H. L	
Lab Manager : Heat	her Lope	ez A	pproved Signatory : pproved Signatory : Moody Labs	12
Lab Director : Bruce	e Crabb	A Thank you for choosing	pproved Signatory : Rung Cult	Ţ

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Mood	Labs

Data Detail

2051 Valley View Lane

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

Client : Apex Titan, Inc. - Dallas

**Project :** Bolin Administration Payroll Offices

**Project # :** 725010727066

Sample Type: Spore Trap, Non-cultured

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

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

 Lab Job No.: 17F-04314

 Report Date: 04/10/2017
 3:09 PM

 Sample Date: 04/07/2017

Spore Trap Type: Zefon - Air-O-Cell

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:	Exterior, Southeast				Exterior, Southwest				Anne Dragisic's Office			
Media Expires On:	Nov 2017			Nov 2017			Nov 2017					
Notes Included:												
Volume:			150				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>	
Alternaria	1	6.67	7	<1%	12	6.67	80	3%	1	6.67	7	6%
Ascospores	24	6.67	160	7%	34	6.67	227	9%	2	6.67	13	10%
Aspergillus / Penicillium	7	6.67	47	2%	2	6.67	13	<1%				
Basidiospores	130	6.67	867	40%	128	6.67	854	34%	3	6.67	20	16%
Cercospora	2	6.67	13	<1%								
Chaetomium												
Cladosporium	143	6.67	954	44%	105	11.11	1167	46%	5	6.67	33	26%
Coprinus group	5	6.67	33	2%	5	6.67	33	1%				
Drechslera / Bipolaris group												
Epicoccum					3	6.67	20	<1%				
Hyphal / Spore Fragments - Dematiac	8	6.67	53	2%	9	6.67	60	2%	5	6.67	33	26%
Hyphal / Spore Fragments - Hyaline												
Memnoniella												
Myxomycete / Rust / Smut	3	6.67	20	<1%	11	6.67	73	3%	1	6.67	7	6%
Nigrospora	1	6.67	7	<1%								
Oidium	1	6.67	7	<1%	1	6.67	7	<1%				
Pestalotia / Pestalotiopsis									1	6.67	7	6%
Pithomyces									1	6.67	7	6%
Spegazzinia	1	6.67	7	<1%								
Stachybotrys												
TOTALS	326		2175	100%	310		2534	100%	19		127	100%
Analyst		Mush	taq Khan		Mushtaq Khan					Mush	taq Khan	
Analysis Date		4/1	0/2017		4/10/2017					4/1	0/2017	
Debris Rating			3				3				2	
Debris Composition												
Fibers			1/5		1/5			1/5				
Inorganic/Other			3/5		3/5				2/5			
Insect Parts			1/5		0/5			0/5				
Pollen			2/5				2/5		0/5			
Skin/Dander			0/5				1/5				2/5	

Mande	
Moody	Labs

Data Detail

2051 Valley View Lane

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

Client : Apex Titan, Inc. - Dallas

Project : Bolin Administration Payroll Offices

**Project # :** 725010727066

Sample Type: Spore Trap, Non-cultured

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

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

Lab Job No. : 17F-04314 Report Date : 04/10/2017 3:09 PM Sample Date: 04/07/2017

Spore Trap Type: Zefon - Air-O-Cell

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:	4							
Location:	Lisa Moore's Office							
Media Expires On:		No	v 2017					
Notes Included:								
Volume:			150					
	raw ct.	MDL	spores/m <sup>3</sup>					
Alternaria	1	6.67	7	3%				
Ascospores	5	6.67	33	13%				
Aspergillus / Penicillium	5	6.67	33	13%				
Basidiospores	8	6.67	53	21%				
Cercospora								
Chaetomium								
Cladosporium	6	6.67	40	16%				
Coprinus group								
Drechslera / Bipolaris group	1	6.67	7	3%				
Epicoccum	1	6.67	7	3%				
Hyphal / Spore Fragments - Dematiac	6	6.67	40	16%				
Hyphal / Spore Fragments - Hyaline								
Memnoniella								
Myxomycete / Rust / Smut	3	6.67	20	8%				
Nigrospora	1	6.67	7	3%				
Oidium	1	6.67	7	3%				
Pestalotia / Pestalotiopsis								
Pithomyces								
Spegazzinia								
Stachybotrys								
TOTALS	38		254	100%				
Analyst		Mush	itaq Khan					
Analysis Date		4/1	0/2017					
Debris Rating			3					
Debris Composition					 			
Fibers			2/5		 			
Inorganic/Other			3/5					
Insect Parts			0/5					
Pollen			1/5					
Skin/Dander			3/5		 		 	

End of Data Detail section 17F-04314

SMLMS v12.11

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**Analytical Notes** 

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577

2051 Valley View Lane

Moody Labs

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

Client : Apex Titan, Inc. - Dallas

**Project :** Bolin Administration Payroll Offices

**Project # :** 725010727066

Sample Type: Spore Trap, Non-cultured

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

Lab Job No. : 17F-04314 Report Date : 04/10/2017 3:09 PM Sample Date : 04/07/2017 Spore Trap Type: Zefon - Air-O-Cell 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.

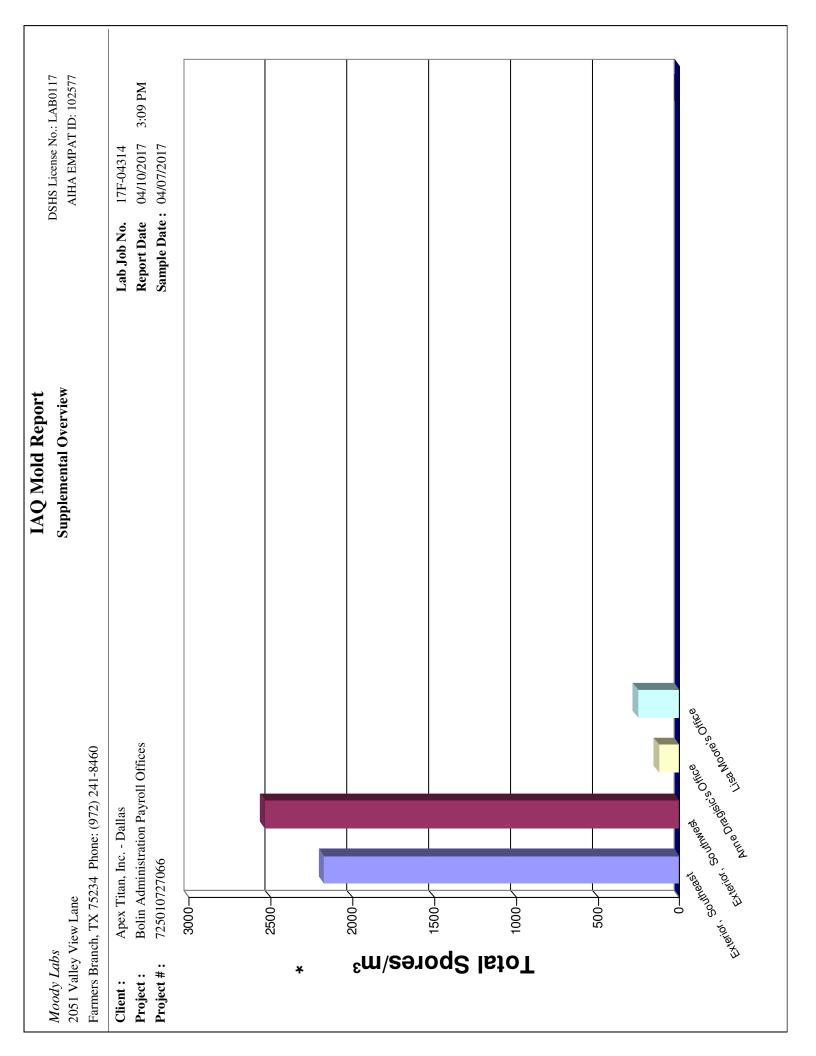
### **Debris Rating Key**

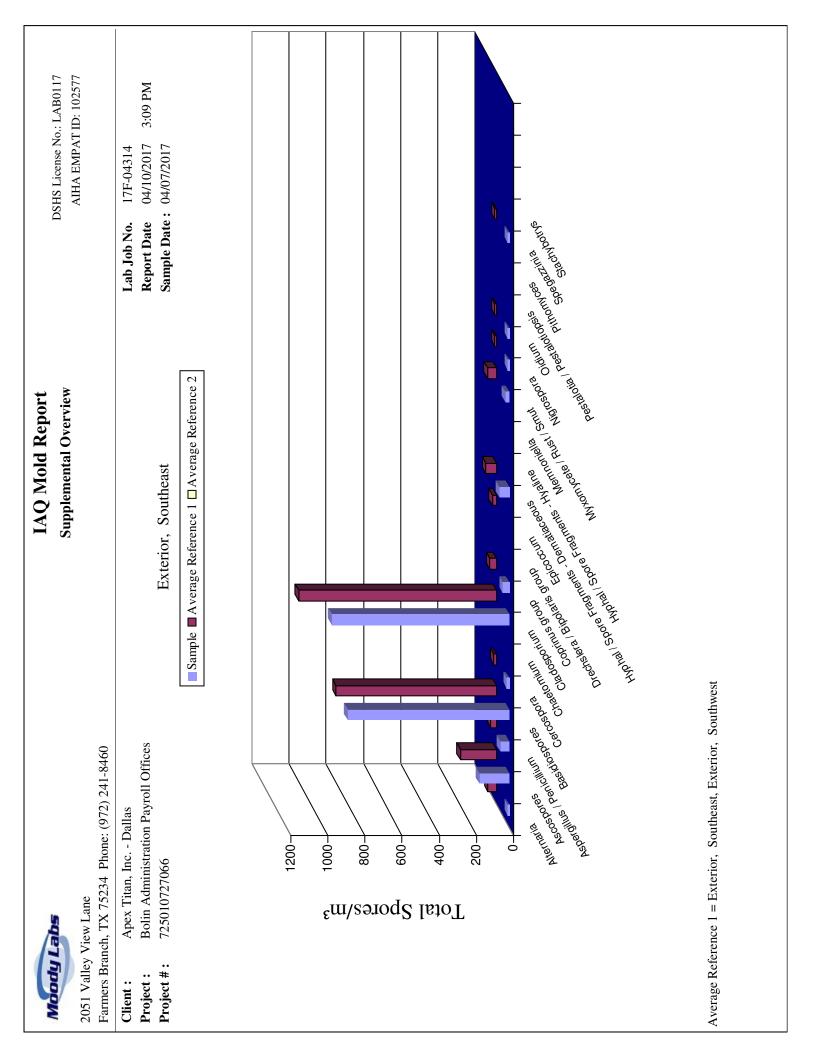
- 0 No linear trace detected
- 1 Trace particulate/debris
- 2 Light particulate/debris
- 3 Moderate particulate/debris.
- 4 Substantial particulate/debris
- 5 Extensive particulate/debris
- 6 Field blank
- 10 Hold Sample
- 11 Modified Analysis per Client Instructions

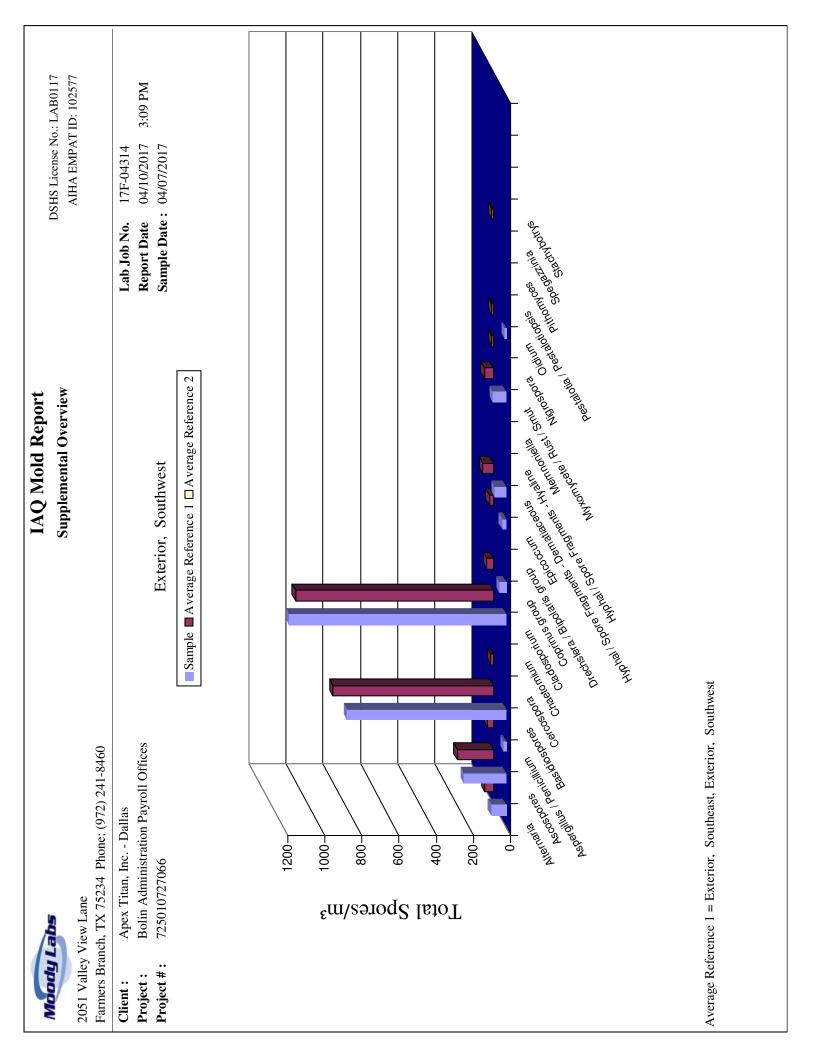
NOTE: Particulate/debris are defined as skin, fibers, pollen grains, insect parts, fungal and/or other non-fungal particles.

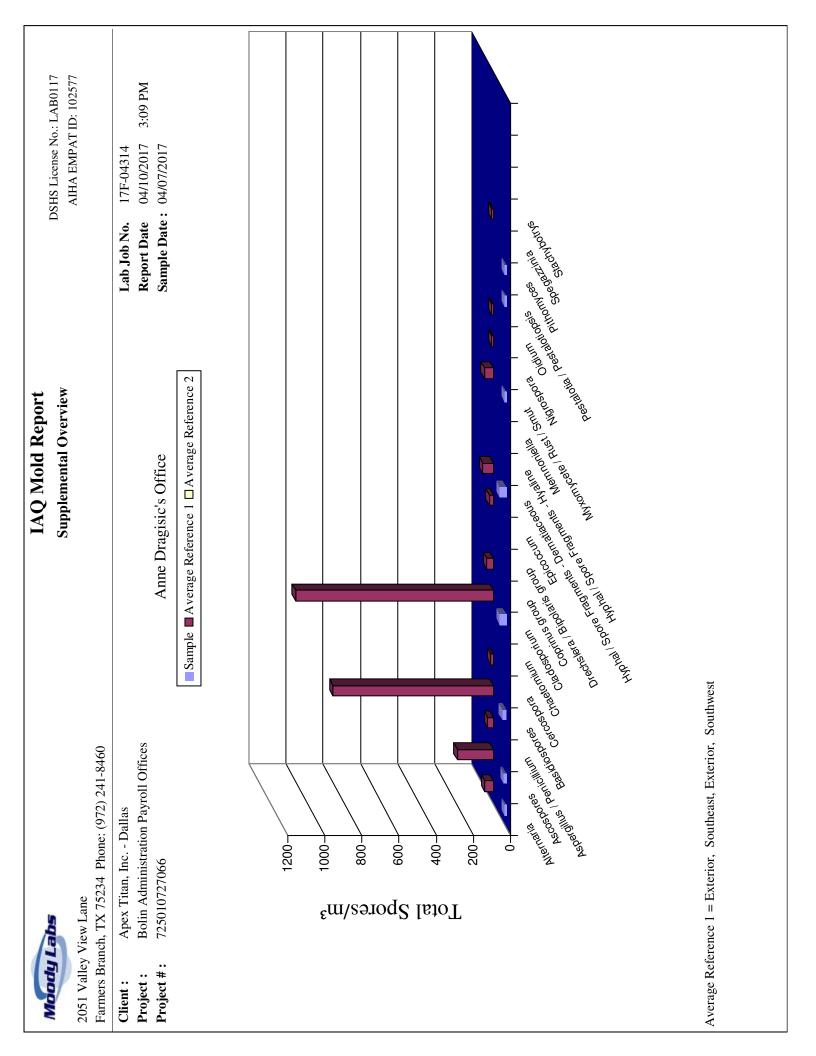
Moody Labs IAQ Mold Report	t
Analytical Notes	DSHS License No.: LAB0117
2051 Valley View Lane	AIHA EMPAT ID: 102577
Farmers Branch, TX 75234 Phone: (972) 241-8460	
Client : Apex Titan, Inc Dallas	Lab Job No.: 17F-04314
Project : Bolin Administration Payroll Offices	<b>Report Date :</b> 04/10/2017 3:09 PM
<b>Project # :</b> 725010727066	Sample Date : 04/07/2017
Sample Type: Spore Trap, Non-cultured	Spore Trap Type: Zefon - Air-O-Cell
Test Method: Mold: ASTM D7391-09 - Standard Profile	Page 2 of 2
This report consists of three sections; a summary section, a data detail section, and an analytical note	es section. Results may not be reported except in full.
AIHA LAP, LLC ACCREDITED LABORATOF ENVIRONMENTAL MICROBIOLOGY ISO/IEC 17025:2005 WWW.AIHAACCREDITEDLABS.ORG LAB # 102577	
Statewide Historically Underutilized Business Program	s Women's Business Enterprise
End of Analytical Notes section 17F-04314	

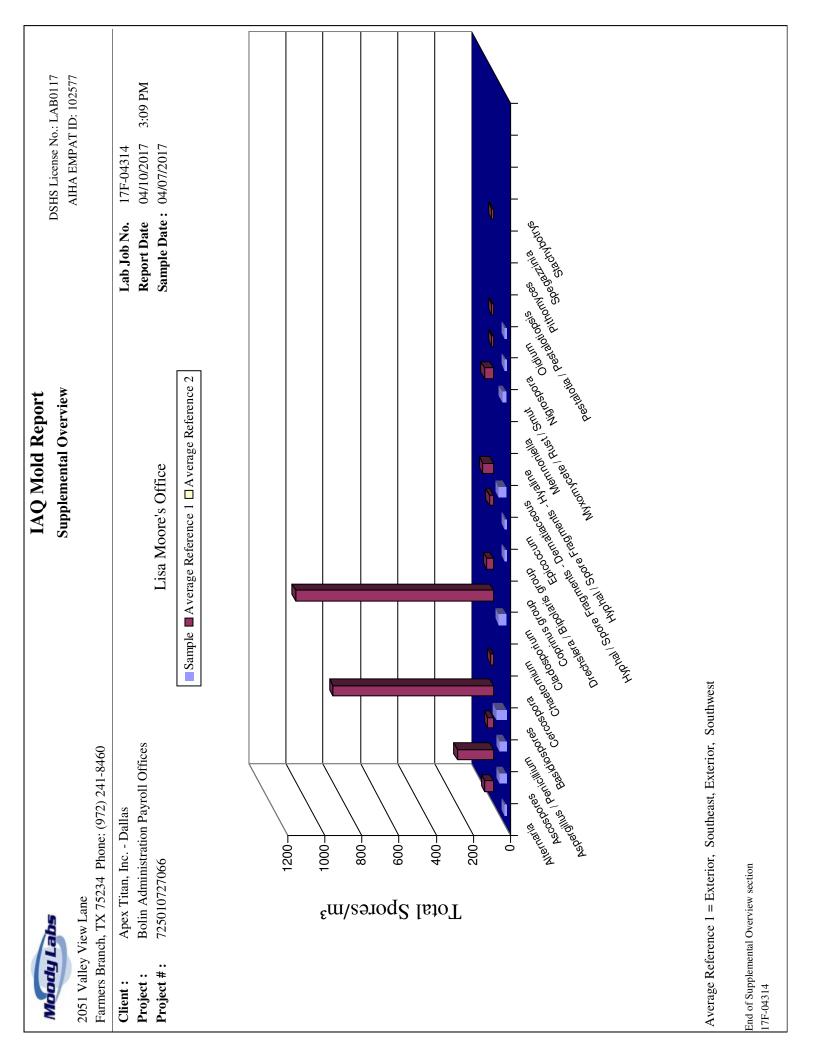
17F-04314













TOTAL DUST(0500/0600)

ASBESTOS PLM

PCM Air (7400)

Bulk

### Chain of Custody

🗌 Immediate 🗋 1 day 🛑 2 day 🔲 3 day 🛄 5 day

🗌 Immediate 🗌 1 day 🔲 2 day 🔲 3 day 🛄 5 day

🗍 1 day 🔲 2 day

Labs	<u>Cha</u>	ain of Custod	Lab Job #						
*Please call in adva [	ince for imm	nediate, after-hour, &	weekend pricing & ava MOLD	ilability.*	Page	e of			
nmediate 🗌 1 day 🗌 Analyz		☐ 3 day ☐ 5 day ☐ <b>Positive Stop</b>	Direct Exam Standard Air Expanded Air	☐ Immediate ☐ Immediate ☐ Immediate	□ 1 day □ 1 day □ 1 day	☐ 2 day 2 day ☐ 2 day ☐ 2 day			
	🗌 2 day	🗌 3 day 🔲 5 day	Culture** Analyze Blanks	☐ 10-14 days ☐ <b>Yes</b>					
500/0600)	🗌 2 day		**Turnaround of Cult	ture Samples subj	ect to Cultu	re Growth**			

Lab Job # 17F. 04314 ATCH

5 day

5 day

BACT	ERIA*
	-

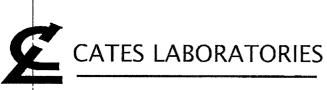
				BACTERIA**	
ASBESTOS TEM		<b>—</b>		Colony Counts (CC)	🗌 3 day 🔲
Air AHERA Method	ate Night*	📙 6 hr	📙 12 hr 📙 24 hr	CC + Gram Stain	🗌 3 day 🗌
Air 7402 (Modified)	🗌 1 day	🗌 2 day	🛛 3 day	Coliform & E. coli (P/A)	□ 2-3 dav
		🗌 2 day	🗌 3 day 🗍 5 day	Legionella	$\Box$ 14 days
Water/Wipe/Micro Vac	🗌 1 day	🗌 2 day	3 day	•	
Analyze Blanks	🗌 Yes	🗌 No 🍐	_ ,	OTHER:	

*Late night analysis surcharges apply	
Billing Company / City: Apex Titen, Inc.	# of Samples:
Submitter's Company:	Sample Date: 417/2017
Submitter's Name: <u>Cliefon S. Jech</u>	Project #: 725010727066
Project: Bolin Adminichation Pay Row offices	Phone #:
Contact Information: Name: <u>Clint Jech</u>	Mobile #: (972) 989-1031
E-mail Results to: Clist/Darren/Vermien	Fax #:
Invoice Address: Vecanien	P.O. #:

\*Please review paperwork and samples before submitting to lab. Unsealed / improperly packaged / damaged / expired samples or excessive administrative requests max-incur additional fees Notes:

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes					
1	Exterior, Southerst	150	T= 65,1 · H= 32.1 · J.					
2	Externor, Southwest	150	T= 66.9 • 1+= 29.7 ·1.					
3	ANNE Dragisil'S office	157	T= 73.2 " H= 31.3 ". N= 8-10 .1.					
4	Lisa Moore's office	150	T= 72.3 "H= 312 = 7-5 %.					
· · · · · · · · · · · · · · · · · · ·								
	· · · · · · · · · · · · · · · · · · ·							
Released B	Date / Time:	Receiver						
	( +17/2017 1109)	Received By	Date / Time:					
Released B	y: Date / Time:	ReceivedBy	Date / Time:					

Moody Labs • 2051 Valley View Ln. • Farmers Branch, TX 75234 • Phone (972) 241-8460 • Fax (972) 241-8461 www.moodylabs.com



# CHAIN OF CUSTODY

							- · · ·	(Lab Onl	y) 5h	7-2	1336	
Company	x:A	pex					-	_				
Contact/F	Results to	/ :					_ Verbal 🗆	Email 🗆	Fax 🛛	(check a	il that apply)	)
Email(s):					<u></u>			_				
Telephon	ne No.:				Fax No.:			-				
	<u>Keldi</u>	的的分	法法律法律	and the Pr	oject Infor	mation		gi dipa	No. N	(Frid	(Set 1)	nd 
Project:_	Bo	lin La	on ter-			,,,,,,,,,,,,	_ Project No	o.:				
Address:							P	.O. No.:				
sta Ra		Konk	MA YAKE	<u>ĔĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊĊ</u>	iarซีนี้ก็d <sup>1</sup> (e	heck ope)	Y IN	7269 W.S	C.L.S.J. W	in New	\$KXYYZ	<u>,</u>
RUS	SH ASAP		RUSH 24H	IR 🗆	2 DAY (sta	indard)	3-4 D	AY 🗆	5	DAY 🗆		
A C DO		限省学		Asbestos	Testing Se	rvices (che	ck all that a	pply)		N. I.		\$ *
Pet	run.	2-2-	- <u>PLM-BUI</u> EPA 690/B	<u>.K</u>			PCM-AIR	$\times$			!	
1 .	mary		Point Count	93/118 ∐ (4 <del>00)</del> □			OSHA, TW				,	
		Range (La	b Only):	Sample	e Date	No. of Sam	ples /	Positiv		Vac 🗖		
527	809 116			1/5/	/ <del>}_</del>			_				<u></u>
						eşçnbuğıırı	ōcation	• •	ه می ۱ ۲		(air only)	
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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.

