DATE: May 12, 2017

TO: Amy Boughton, Principal

SUBJECT: Griffin MS - IAQ - Initial Contact - Lion's Den

Today 5/12, I received Work Order #410857: *"Musty Smell in the Lion's Den all the time. PS"*. I have submitted a P.O. request to do an Air Test. Test will be done by Apex-Titan on Monday 5/15 or Tuesday 5/16. We should have the results back by the end of the week. 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
Cell: 469-446-8882

DATE: May 16, 2017

TO: Amu Boughton, Principal

SUBJECT: Griffin MS - IAQ - Initial Contact - Room 1227 (8th Grade Teachers Workroom)

Yesterday 5/15, I received Work Order #410500: *"We have a HORRIFIC mildew smell in the 8th grade teacher's workroom. The smell is getting worse and a huge concern of mold in this area".* This morning at 6:50 AM, I inspected the area. Found 1 stained ceiling tile in the Storage Room. I met with the East Zone Facility Services, and they will replace that ceiling tile. I have submitted a P.O. request to do an Air Test. Test will be done by Apex-Titan on Thursday 5/18 or Friday 5/19. We should have the results back by Tuesday 5/23. 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
Cell: 469-446-8882

DATE: May 22, 2017

TO: Amy Boughton, Principal

SUBJECT: Griffin MS - IAQ - Air Test results - Lion's Den & Room 1227

On Wednesday 5/17, Apex-Titan Air tested the Lion's Den and Room 1227. 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 Lion's Den, was **5.7%**, and in Room 1227, was **22.4%** 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

May 24, 2017

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

Re: Limited Mold Assessment Services
Griffin Middle School
Lion's Den
5105 N Colony Boulevard
The Colony, Texas
LISD PO No. 91736552-00
Apex Project No. 725010727077

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 Griffin Middle School located at 5105 N Colony Boulevard in The Colony, 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 May 17, 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 Lion's Den. 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. P725010727088) dated May 12, 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 May 12, 2017 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 71.0 degrees Fahrenheit while relative humidity was reported as 51.6 percent. Temperature readings collected outside the building ranged from 83.6 to 87.0 degrees Fahrenheit while outside relative humidity ranged from 34.8 to 35.8 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/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

Moisture meter readings taken from the walls within the room ranged from 14-40% which is considered normal to excessive moisture levels 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 room 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 281 counts/m^3, while the exterior level ranged from 3,781 to 4,920 counts/m^3.

Two 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 Lion's Den reported Aspergillus/Penicillium as 80 counts/m^3 while exterior levels were reported as 60 counts/m^3 and Curvulaira as 7 counts/m^3 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

Apex noted high levels of moisture beneath the corkboards within the room. A musty odor was observed and the time of the assessment. No excessive dust was noted at the time of the assessment.

Conclusions and Recommendations

Apex recommend that the wet materials be removed.

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

IAQ Mold Report

Summary

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

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Lion's Den
Project # : 725010727-077
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: ASTM D7391-09 - Standard Profile

Lab Job No. : 17F-05838
Report Date : 05/19/2017 1:41 PM
Sample Date: 05/17/2017
Spore Trap Type: Zefon - Air-O-Cell

On 5/17/2017, 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	Concentration spores/cubic meter	
1	150	Exterior, South	Basidiospores	1740	46%
			Myxomycete / Rust / Smut	727	19%
			Ascospores	620	16%
			Cladosporium	440	12%
			Hyphal / Spore Fragments - Dematiaceous	80	2%
			Drechslera / Bipolaris group	60	2%
			Aspergillus / Penicillium	60	2%
			Alternaria	27	<1%
			Oidium	13	<1%
			Pithomyces	7	<1%
			Chaetomium	7	<1%
			Total:	3781	100%
2	150	Exterior, Northwest	Basidiospores	1800	37%
			Ascospores	1520	31%
			Myxomycete / Rust / Smut	980	20%
			Cladosporium	500	10%
			Aspergillus / Penicillium	40	<1%
			Alternaria	33	<1%
			Hyphal / Spore Fragments - Dematiaceous	20	<1%
			Stachybotrys	13	<1%
			Oidium	7	<1%
			Nigrospora	7	<1%
			Total:	4920	100%

IAQ Mold Report

Summary

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

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Lion's Den
Project # : 725010727-077
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: ASTM D7391-09 - Standard Profile

Lab Job No. : 17F-05838
Report Date : 05/19/2017 1:41 PM
Sample Date: 05/17/2017
Spore Trap Type: Zefon - Air-O-Cell

On 5/17/2017, 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	Concentration spores/cubic meter	
3	150	Lion's Den	Aspergillus / Penicillium	80	28%
			Myxomycete / Rust / Smut	60	21%
			Hyphal / Spore Fragments - Dematiaceous	33	12%
			Cladosporium	27	10%
			Ascospores	27	10%
			Drechslera / Bipolaris group	20	7%
			Basidiospores	20	7%
			Curvularia	7	2%
			Alternaria	7	2%
			Total:	281	100%

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.

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

Analyst(s): Nina Mims

Lab Manager : Heather Lopez — Approved Signatory : Heather Lopez

Lab Director : Bruce Crabb — Approved Signatory : Bruce Crabb

IAQ Mold Report

Data Detail

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

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Lion's Den
Project # : 725010727-077
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: ASTM D7391-09 - Standard Profile

Lab Job No. : 17F-05838
Report Date : 05/19/2017 1:41 PM
Sample Date: 05/17/2017
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, South				Exterior, Northwest				Lion's Den			
Media Expires On:	May 2018				May 2018				May 2018			
Notes Included:												
Volume:	150				150				150			
	raw ct.	MDL	spores/m³		raw ct.	MDL	spores/m³		raw ct.	MDL	spores/m³	
Alternaria	4	6.67	27	<1%	5	6.67	33	<1%	1	6.67	7	2%
Ascospores	31	20.00	620	16%	76	20.00	1520	31%	4	6.67	27	10%
Aspergillus / Penicillium	3	20.00	60	2%	2	20.00	40	<1%	12	6.67	80	28%
Basidiospores	87	20.00	1740	46%	90	20.00	1800	37%	3	6.67	20	7%
Chaetomium	1	6.67	7	<1%								
Cladosporium	22	20.00	440	12%	25	20.00	500	10%	4	6.67	27	10%
Curvularia									1	6.67	7	2%
Drechslera / Bipolaris group	9	6.67	60	2%					3	6.67	20	7%
Hyphal / Spore Fragments - Dematiac	12	6.67	80	2%	3	6.67	20	<1%	5	6.67	33	12%
Hyphal / Spore Fragments - Hyaline												
Memnoniella												
Myxomycete / Rust / Smut	109	6.67	727	19%	147	6.67	980	20%	9	6.67	60	21%
Nigrospora					1	6.67	7	<1%				
Oidium	2	6.67	13	<1%	1	6.67	7	<1%				
Pithomyces	1	6.67	7	<1%								
Stachybotrys					2	6.67	13	<1%				
TOTALS	281		3781	100%	352		4920	100%	42		281	100%
Analyst	Nina Mims				Nina Mims				Nina Mims			
Analysis Date	5/19/2017				5/19/2017				5/19/2017			
Debris Rating	4				3				1			
Debris Composition												
Fibers	0/5				0/5				1/5			
Inorganic/Other	4/5				3/5				1/5			
Insect Parts	1/5				1/5				1/5			
Pollen	1/5				1/5				0/5			
Skin/Dander	0/5				0/5				1/5			

End of Data Detail section
17F-05838

IAQ Mold Report

Analytical Notes

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

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Lion's Den
Project # : 725010727-077
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: ASTM D7391-09 - Standard Profile

Lab Job No. : 17F-05838
Report Date : 05/19/2017 1:41 PM
Sample Date : 05/17/2017
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.

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)*(RL)
Note: RL (Reporting 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

Analytical Notes

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

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Lion's Den
Project # : 725010727-077
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: ASTM D7391-09 - Standard Profile

Lab Job No. : 17F-05838
Report Date : 05/19/2017 1:41 PM
Sample Date : 05/17/2017
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.

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

HUB
Statewide Historically Underutilized Business Program

TEXAS Department of State Health Services
License # LAB0117

Certified WBENC Women's Business Enterprise

End of Analytical Notes section
17F-05838

IAQ Mold Report

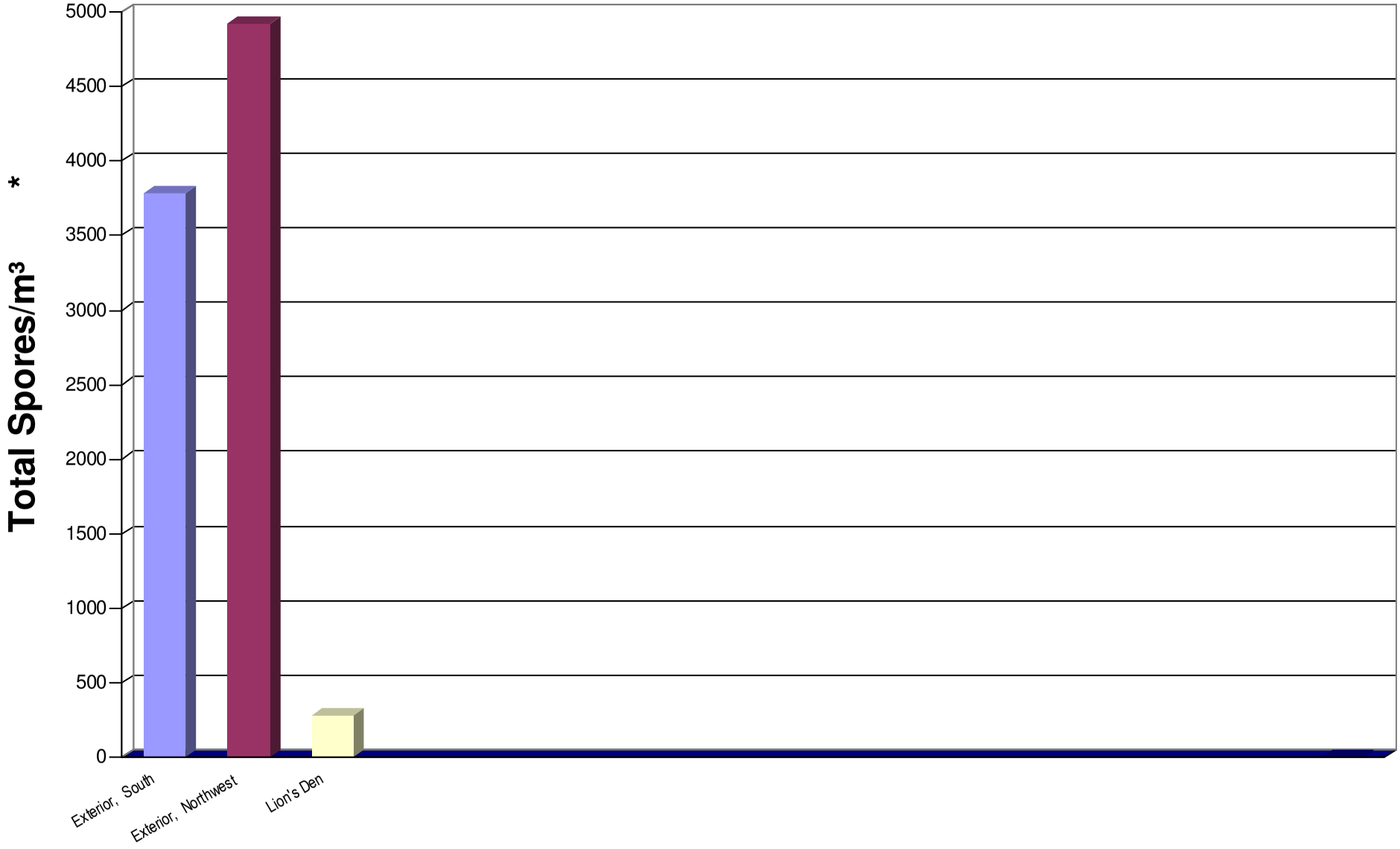
Supplemental Overview

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

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Lion's Den
Project # : 725010727-077

Lab Job No. 17F-05838
Report Date 05/19/2017 1:41 PM
Sample Date : 05/17/2017



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

IAQ Mold Report

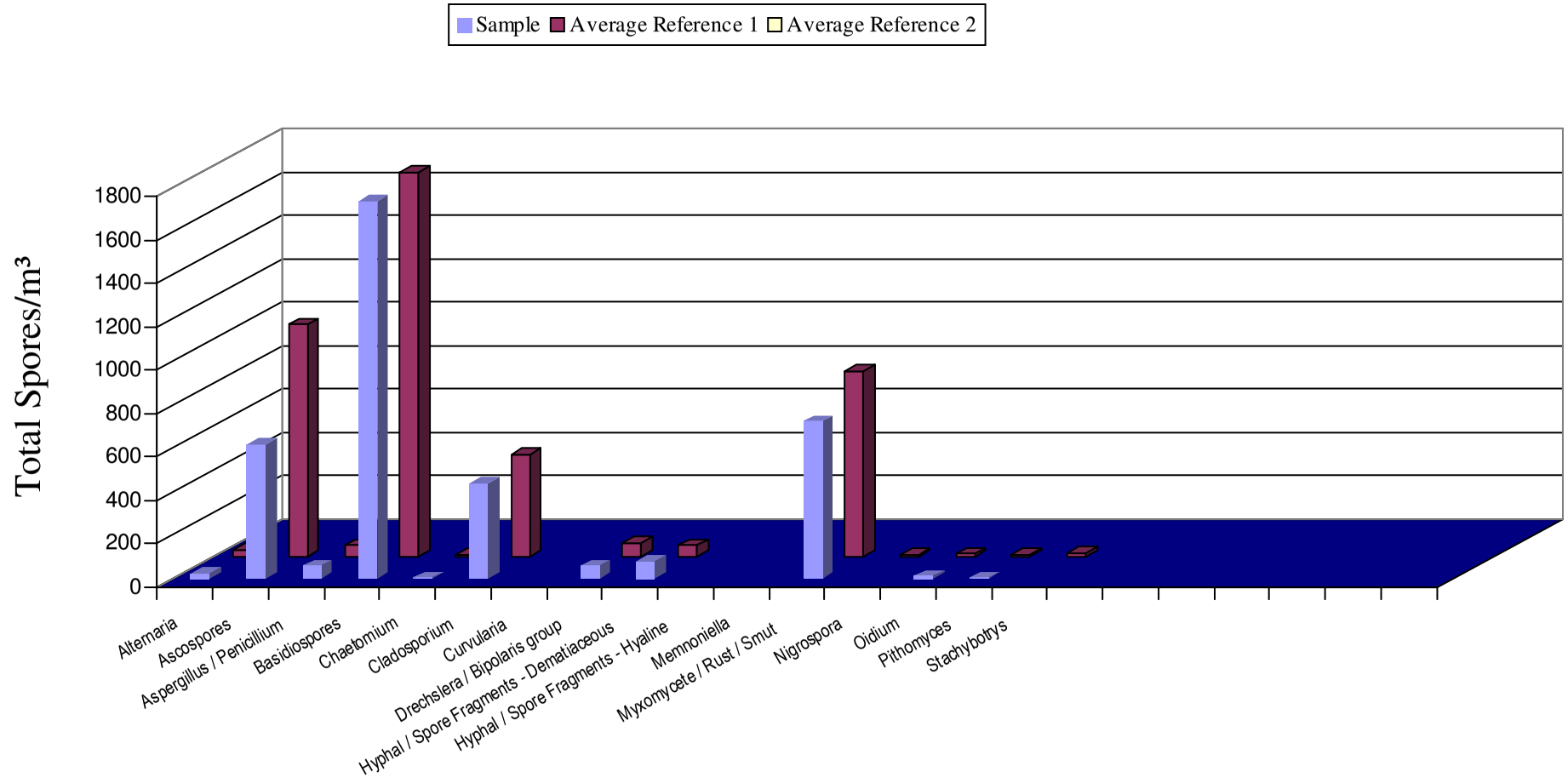
Supplemental Overview

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Lion's Den
Project # : 725010727-077

Lab Job No. 17F-05838
Report Date 05/19/2017 1:41 PM
Sample Date : 05/17/2017

Exterior, South



Average Reference 1 = Exterior, South, Exterior, Northwest

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

IAQ Mold Report

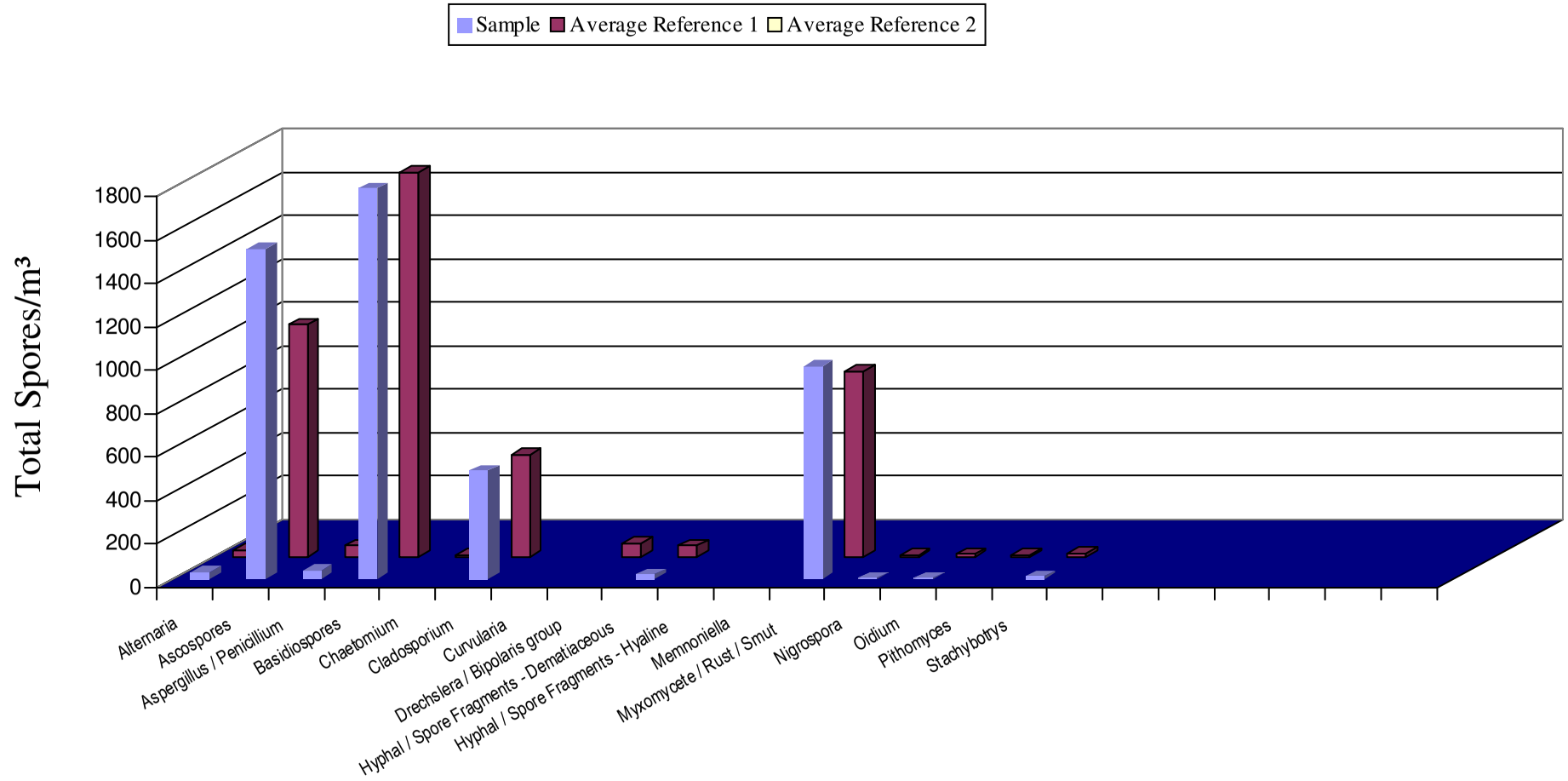
Supplemental Overview

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Lion's Den
Project # : 725010727-077

Lab Job No. 17F-05838
Report Date 05/19/2017 1:41 PM
Sample Date : 05/17/2017

Exterior, Northwest



Average Reference 1 = Exterior, South, Exterior, Northwest

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

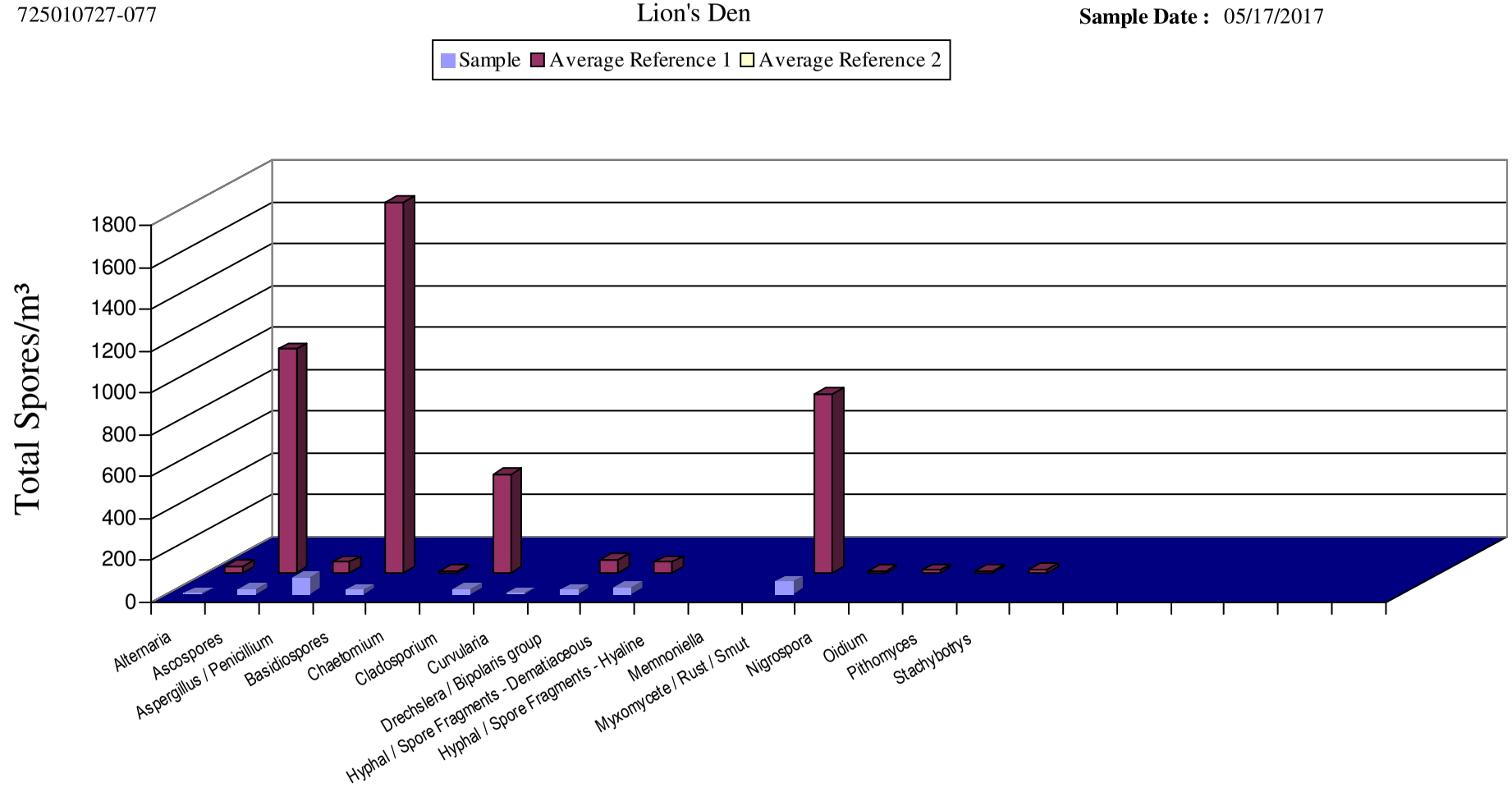
IAQ Mold Report

Supplemental Overview

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Lion's Den
Project # : 725010727-077

Lab Job No. 17F-05838
Report Date 05/19/2017 1:41 PM
Sample Date : 05/17/2017



Average Reference 1 = Exterior, South, Exterior, Northwest

End of Supplemental Overview section
17F-05838

Moody Labs

Chain of Custody

Lab Job # TF-05838 ACC3
Lab Job #
Lab Job #

Please call in advance for immediate, after-hour, & weekend pricing & availability.

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

PCM Air (7400)
☐ Immediate ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5 day

TOTAL DUST(0500/0600)
☐ 1 day ☐ 2 day

ASBESTOS TEM
Air AHERA Method ☐ Late Night* ☐ 6 hr ☐ 12 hr ☐ 24 hr
Air 7402 (Modified) ☐ 1 day ☐ 2 day ☐ 3 day
Bulk ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5 day
Water/Wipe/Micro Vac ☐ 1 day ☐ 2 day ☐ 3 day
Analyze Blanks ☐ **Yes** ☐ **No**
*Late night analysis surcharges apply

MOLD
Direct Exam ☐ Immediate ☐ 1 day ☐ 2 day
Standard Air ☐ Immediate ☐ 1 day ☒ 2 day
Expanded Air ☐ Immediate ☐ 1 day ☐ 2 day
Culture** ☐ 10-14 days
Analyze Blanks ☐ **Yes** ☐ **No**
Turnaround of Culture Samples subject to Culture Growth

BACTERIA**
Colony Counts (CC) ☐ 3 day ☐ 5 day
CC + Gram Stain ☐ 3 day ☐ 5 day
Coliform & E. coli (P/A) ☐ 2-3 day
Legionella ☐ 14 days

OTHER:

Billing Company / City: Apex Titan, Inc.
Submitter's Company:
Submitter's Name: Clinton S. Tech
Project: Griffin MS Lion's Den
Contact Information: Name: Clint Tech
E-mail Results to: Clint/Darren/Veronica
Invoice Address: Veronica

# of Samples: 3
Sample Date: 5/17/2017
Project #: 725010727077
Phone #:
Mobile #: (972) 989-1031
Fax #:
P.O. #:

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

Notes:

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
1	Exterior, South	150	T= 87.0 ° H= 34.8 %
2	Exterior, Northwest	150	T= 83.6 ° H= 35.8 %.
3	Lion's Den	150	T= 71.0 ° H= 51.4 %. M= %.
			Ceilings = Ceiling Tile
			Walls = Wood Wall Panel, Cork Board on Sheetrock
			Floor = Floor Tile
			Musty Smell
			South / Southeast Beneath Cork Board
			20-40 % Moisture @ East
			Northeast to West Wall 14-15%
			Moisture Beneath Cork Board

Released By:	Date / Time:	Received By:	Date / Time:
Released By:	5/17/2017 1501 Date / Time:	Received By:	5.17.17 8.01pm Date / Time:

ATTACHMENT 2

Mold Services Definitions & Limitations/Standard of Care and Reliance

APEX

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.

May 24, 2017

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

Re: Limited Mold Assessment Services
Griffin Middle School
Room 1227
5105 N Colony Boulevard
The Colony, Texas
LISD PO No. 91736786-00
Apex Project No. 725010727080

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 Griffin Middle School located at 5105 N Colony Boulevard in The Colony, 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 May 17, 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 room 1227. 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. P725010727091) dated May 16, 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's Mold Assessment Site reconnaissance was performed on May 17, 2017 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 73.2 degrees Fahrenheit while relative humidity was reported as 45.2 percent. Temperature readings collected outside the building ranged from 83.6 to 87.0 degrees Fahrenheit while outside relative humidity ranged from 34.8 to 35.8 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/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

Moisture meter readings taken from the walls within the room ranged from 10-14% 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 classrooms 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 was reported as 1,413 counts/m^3, while the exterior level ranged from 4,735 to 6,308 counts/m^3.

One 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 room 1227 reported Aspergillus/Penicillium as 400 counts/m^3 while exterior levels were reported as 60 counts/m^3.

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 excessive dust or odors were noted during the inspection.

Conclusions and Recommendations

Apex recommends that the room 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 (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

IAQ Mold Report

Summary

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

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Room 1227, 8th Grade Teacher's Workroom
Project # : 725010727080
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: ASTM D7391-09 - Standard Profile

Lab Job No. : 17F-05839
Report Date : 05/19/2017 1:05 PM
Sample Date: 05/17/2017
Spore Trap Type: Zefon - Air-O-Cell

On 5/17/2017, 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	Concentration spores/cubic meter	
1	150	Exterior, South	Basidiospores	2100	44%
			Myxomycete / Rust / Smut	1081	23%
			Ascospores	820	17%
			Cladosporium	460	10%
			Hyphal / Spore Fragments - Dematiaceous	100	2%
			Drechslera / Bipolaris group	67	1%
			Aspergillus / Penicillium	60	1%
			Alternaria	33	<1%
			Oidium	7	<1%
			Chaetomium	7	<1%
			Total:	4735	100%
2	150	Exterior, Northwest	Basidiospores	2480	39%
			Myxomycete / Rust / Smut	2401	38%
			Ascospores	1120	18%
			Cladosporium	140	2%
			Aspergillus / Penicillium	60	<1%
			Alternaria	53	<1%
			Cercospora	27	<1%
			Hyphal / Spore Fragments - Dematiaceous	20	<1%
			Oidium	7	<1%
			Total:	6308	100%

IAQ Mold Report

Summary

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

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Room 1227, 8th Grade Teacher's Workroom
Project # : 725010727080
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: ASTM D7391-09 - Standard Profile

Lab Job No. : 17F-05839
Report Date : 05/19/2017 1:05 PM
Sample Date: 05/17/2017
Spore Trap Type: Zefon - Air-O-Cell

On 5/17/2017, 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	Concentration spores/cubic meter	
3	150	Room 1227, 8th Grade Teacher's Workroom	Basidiospores	440	31%
			Aspergillus / Penicillium	400	28%
			Cladosporium	260	18%
			Ascospores	240	17%
			Myxomycete / Rust / Smut	33	2%
			Drechslera / Bipolaris group	20	1%
			Hyphal / Spore Fragments - Dematiaceous	13	<1%
			Alternaria	7	<1%
			Total:	1413	100%

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.

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

Analyst(s): Nina Mims

Lab Manager : Heather Lopez — Approved Signatory : Heather Lopez

Lab Director : Bruce Crabb — Approved Signatory : Bruce Crabb

Thank you for choosing Moody Labs

IAQ Mold Report

Data Detail

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

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Room 1227, 8th Grade Teacher's Workroom
Project # : 725010727080
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: ASTM D7391-09 - Standard Profile

Lab Job No. : 17F-05839
Report Date : 05/19/2017 1:05 PM
Sample Date: 05/17/2017
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, South				Exterior, Northwest				Room 1227, 8th Grade Teacher's Workroom			
Media Expires On:	May 2018				May 2018				May 2018			
Notes Included:												
Volume:	150				150				150			
	raw ct.	MDL	spores/m³		raw ct.	MDL	spores/m³		raw ct.	MDL	spores/m³	
Alternaria	5	6.67	33	<1%	8	6.67	53	<1%	1	6.67	7	<1%
Ascospores	41	20.00	820	17%	56	20.00	1120	18%	12	20.00	240	17%
Aspergillus / Penicillium	3	20.00	60	1%	3	20.00	60	<1%	20	20.00	400	28%
Basidiospores	105	20.00	2100	44%	124	20.00	2480	39%	22	20.00	440	31%
Cercospora					4	6.67	27	<1%				
Chaetomium	1	6.67	7	<1%								
Cladosporium	23	20.00	460	10%	7	20.00	140	2%	13	20.00	260	18%
Drechslera / Bipolaris group	10	6.67	67	1%					3	6.67	20	1%
Hyphal / Spore Fragments - Dematiac	15	6.67	100	2%	3	6.67	20	<1%	2	6.67	13	<1%
Hyphal / Spore Fragments - Hyaline												
Memnoniella												
Myxomycete / Rust / Smut	162	6.67	1081	23%	360	6.67	2401	38%	5	6.67	33	2%
Oidium	1	6.67	7	<1%	1	6.67	7	<1%				
Stachybotrys												
TOTALS	366		4735	100%	566		6308	100%	78		1413	100%
Analyst	Nina Mims				Nina Mims				Nina Mims			
Analysis Date	5/19/2017				5/19/2017				5/19/2017			
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				1/5				0/5			
Pollen	1/5				1/5				0/5			
Skin/Dander	0/5				0/5				1/5			

End of Data Detail section

IAQ Mold Report

Analytical Notes

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

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Room 1227, 8th Grade Teacher's Workroom
Project # : 725010727080
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: ASTM D7391-09 - Standard Profile

Lab Job No. : 17F-05839
Report Date : 05/19/2017 1:05 PM
Sample Date : 05/17/2017
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.

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)*(RL)
Note: RL (Reporting 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

Analytical Notes

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

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Room 1227, 8th Grade Teacher's Workroom
Project # : 725010727080
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: ASTM D7391-09 - Standard Profile

Lab Job No. : 17F-05839
Report Date : 05/19/2017 1:05 PM
Sample Date : 05/17/2017
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.

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

HUB
Statewide Historically Underutilized Business Program

TEXAS Department of State Health Services
License # LAB0117

Certified WBENC Women's Business Enterprise

End of Analytical Notes section
17F-05839

IAQ Mold Report

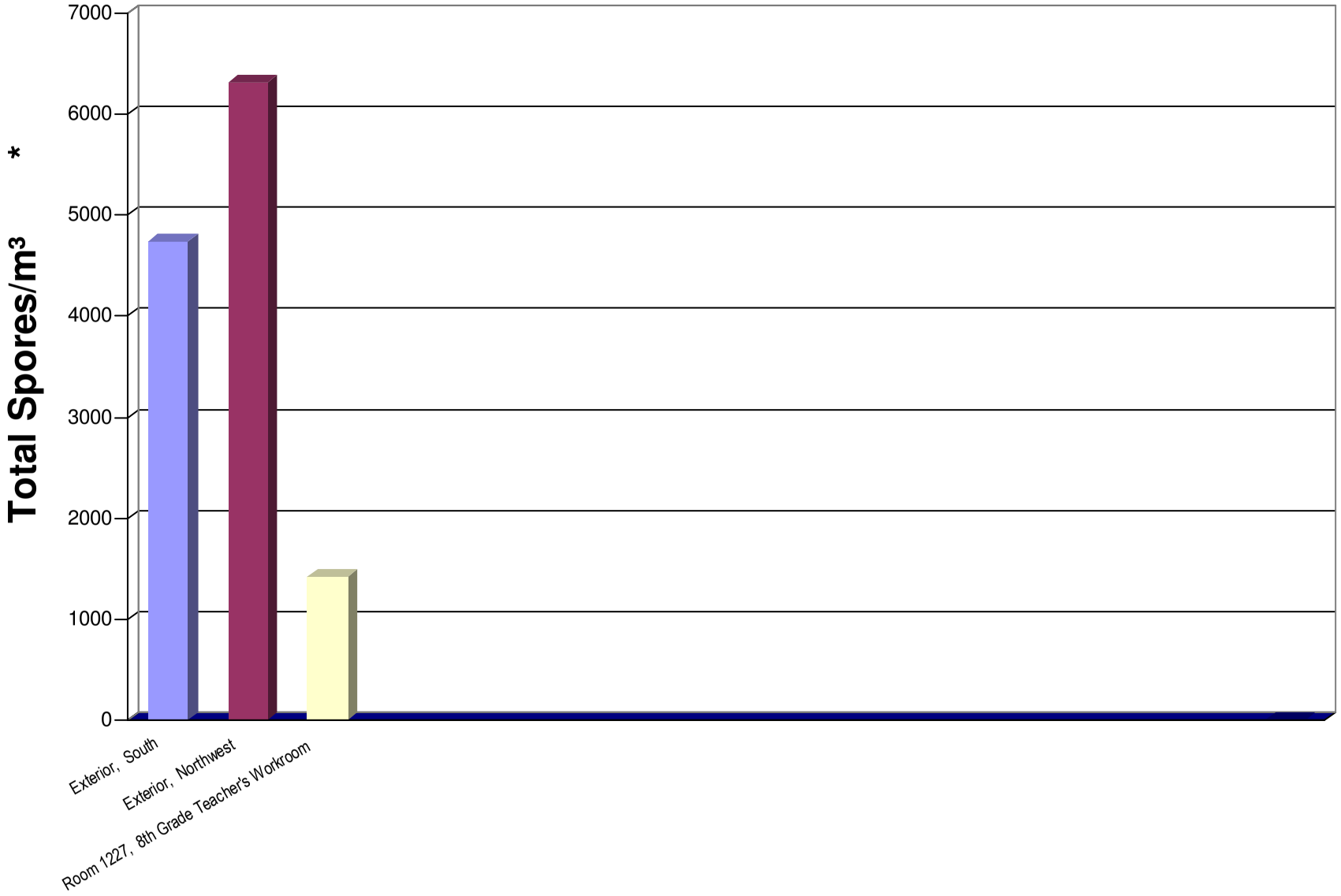
Supplemental Overview

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

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Room 1227, 8th Grade Teacher's Workroom
Project # : 725010727080

Lab Job No. 17F-05839
Report Date 05/19/2017 1:05 PM
Sample Date : 05/17/2017



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

IAQ Mold Report

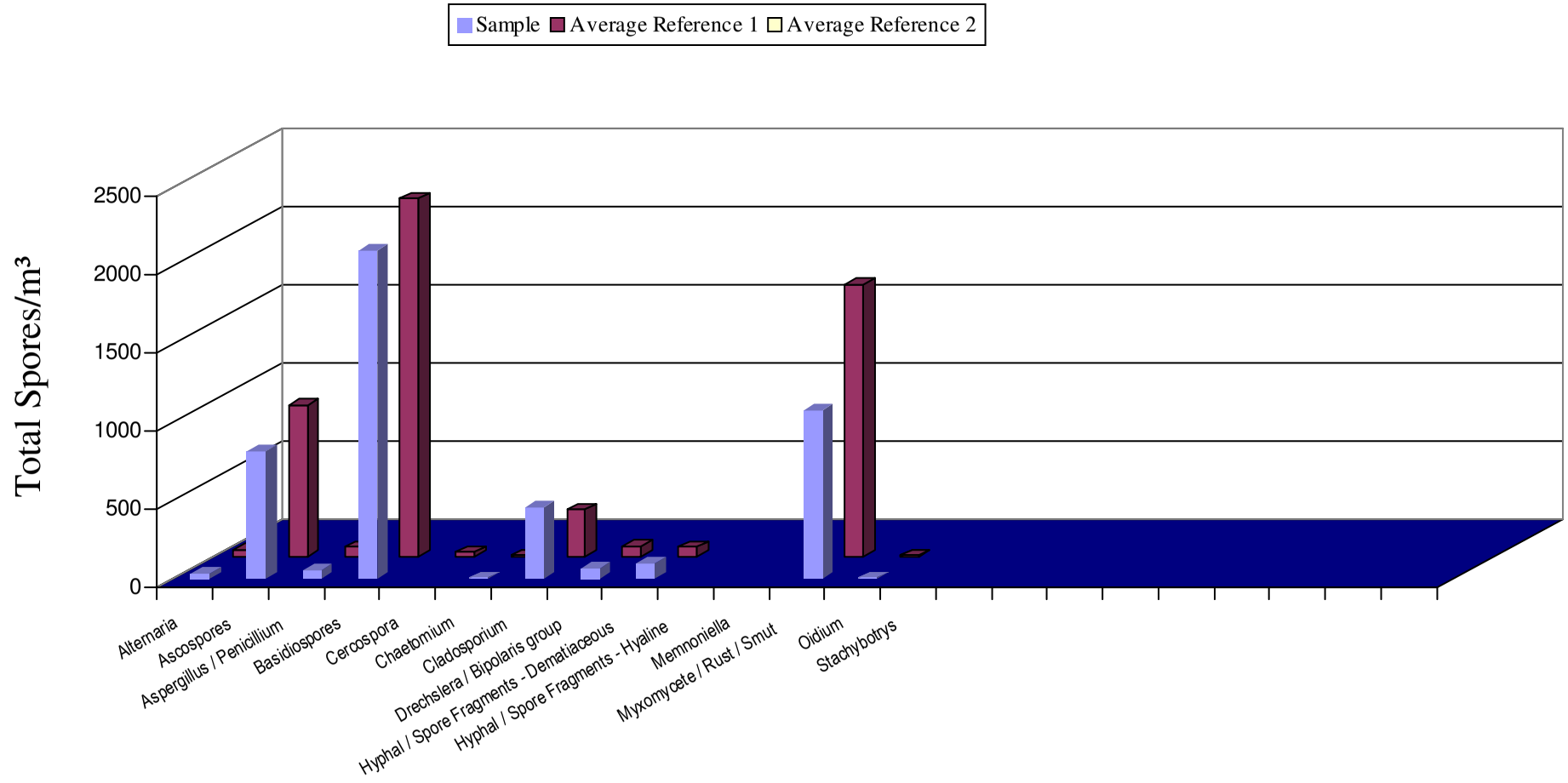
Supplemental Overview

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Room 1227, 8th Grade Teacher's Workroom
Project # : 725010727080

Lab Job No. 17F-05839
Report Date 05/19/2017 1:05 PM
Sample Date : 05/17/2017

Exterior, South



Average Reference 1 = Exterior, South, Exterior, Northwest

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

IAQ Mold Report

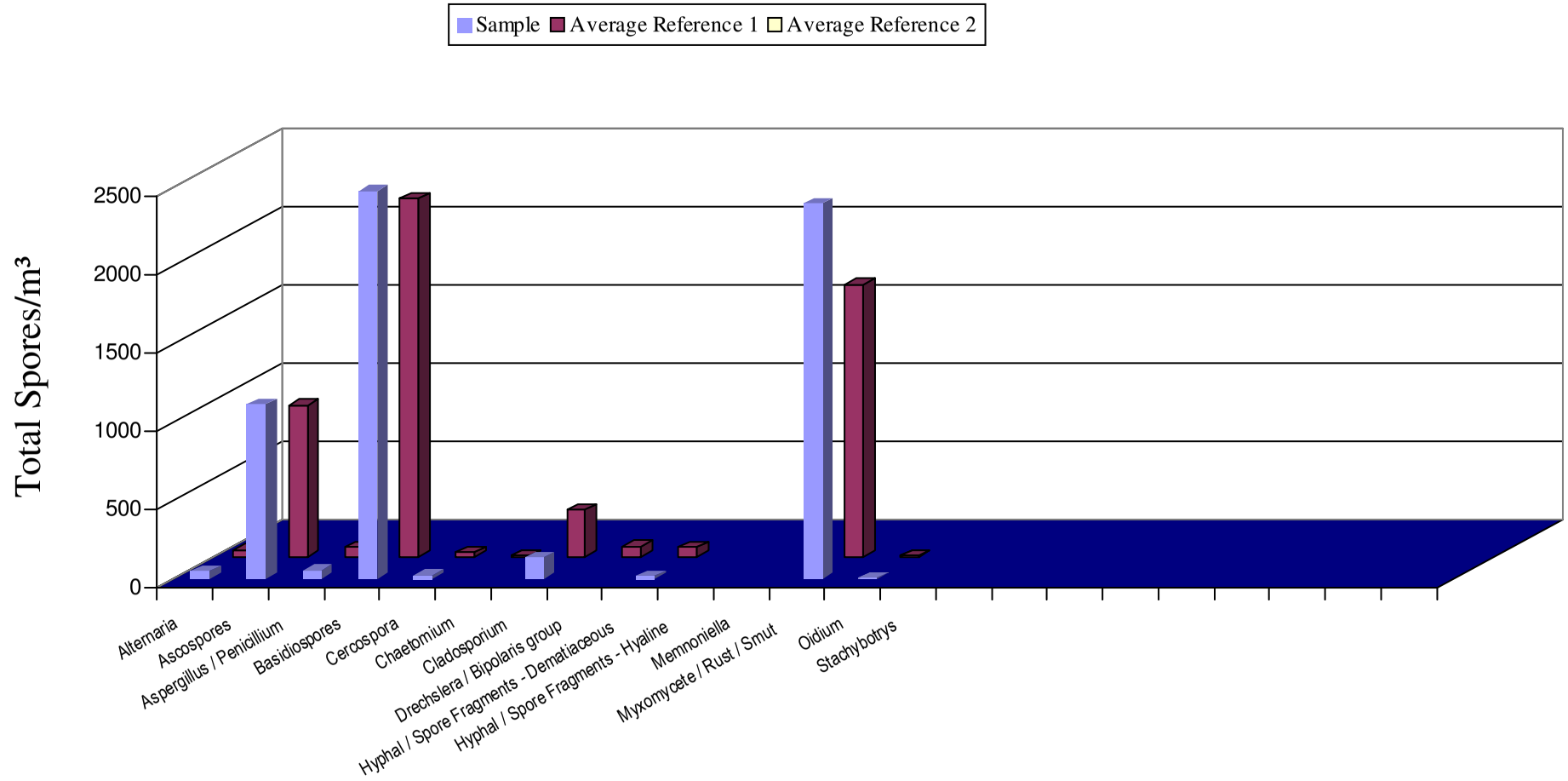
Supplemental Overview

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Room 1227, 8th Grade Teacher's Workroom
Project # : 725010727080

Lab Job No. 17F-05839
Report Date 05/19/2017 1:05 PM
Sample Date : 05/17/2017

Exterior, Northwest



Average Reference 1 = Exterior, South, Exterior, Northwest

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

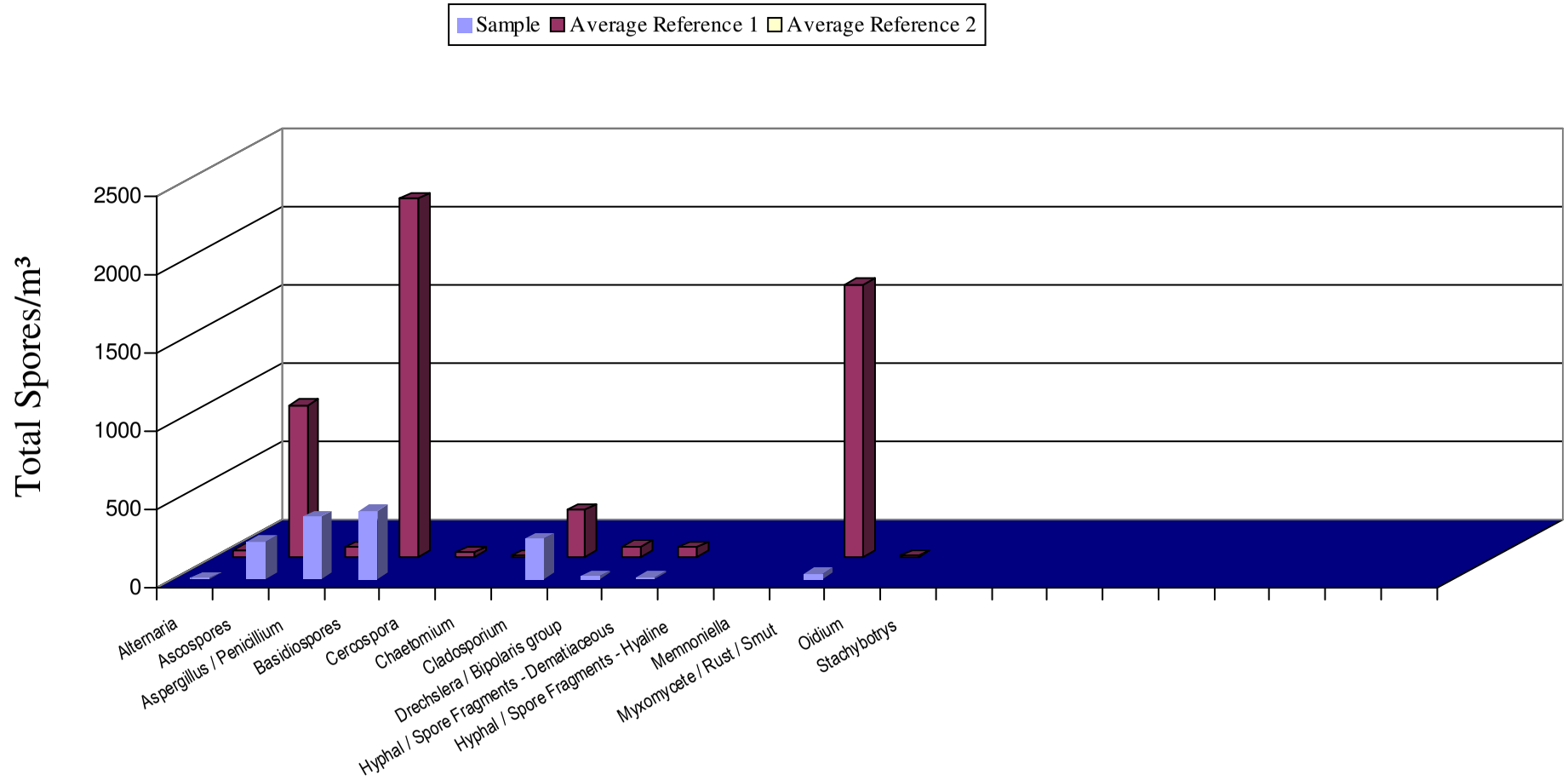
IAQ Mold Report

Supplemental Overview

DSHS License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Apex Titan, Inc. - Dallas
Project : Griffin MS Room 1227, 8th Grade Teacher's Workroom
Project # : 725010727080

Lab Job No. 17F-05839
Report Date 05/19/2017 1:05 PM
Sample Date : 05/17/2017



Average Reference 1 = Exterior, South, Exterior, Northwest

End of Supplemental Overview section
17F-05839

Moody Labs

Chain of Custody

Lab Job # 17F-05839A0CB
Lab Job #
Lab Job #

Please call in advance for immediate, after-hour, & weekend pricing & availability.

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

PCM Air (7400)
☐ Immediate ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5 day

TOTAL DUST(0500/0600)
☐ 1 day ☐ 2 day

ASBESTOS TEM
Air AHERA Method ☐ Late Night* ☐ 6 hr ☐ 12 hr ☐ 24 hr
Air 7402 (Modified) ☐ 1 day ☐ 2 day ☐ 3 day
Bulk ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5 day
Water/Wipe/Micro Vac ☐ 1 day ☐ 2 day ☐ 3 day
Analyze Blanks ☐ **Yes** ☐ **No**
*Late night analysis surcharges apply

MOLD
Direct Exam ☐ Immediate ☐ 1 day ☐ 2 day
Standard Air ☐ Immediate ☐ 1 day ☒ 2 day
Expanded Air ☐ Immediate ☐ 1 day ☐ 2 day
Culture** ☐ 10-14 days
Analyze Blanks ☐ **Yes** ☐ **No**
Turnaround of Culture Samples subject to Culture Growth

BACTERIA**
Colony Counts (CC) ☐ 3 day ☐ 5 day
CC + Gram Stain ☐ 3 day ☐ 5 day
Coliform & E. coli (P/A) ☐ 2-3 day
Legionella ☐ 14 days

OTHER:

Billing Company / City: Apex Titan, Inc.
Submitter's Company:
Submitter's Name: Clinton S. Jech
Project: Griffin MS Room 1227 (8th Grade Teacher's Workroom)
Contact Information: Name: Clint Jech
E-mail Results to: Clint/Darren/Veronica
Invoice Address: Veronica

# of Samples: 3
Sample Date: 5/17/2017
Project #: 7250107270S0
Phone #:
Mobile #: (972) 989-1031
Fax #:
P.O. #:

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

Notes:

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
1	Exterior, South	150	T= 87.0° H= 34.8%
2	Exterior, Northwest	150	T= 83.6° H= 35.8 %
3	Room 1227 (8th Grade Teacher's	150	T= 78.2° H= 45.2 %. AL= 10-14 %.
	Workroom)		Ceilings = Ceiling Tile
			Walls = Sheetrock
			Floor = Floor Tile

Released By:	Date / Time:	Received By:	Date / Time:
Released By:	Date / Time:	Received By:	Date / Time:
	5/17/2017 1501		5.17.17 3:0Pm

ATTACHMENT 2

Mold Services Definitions & Limitations/Standard of Care and Reliance

APEX

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.