

**DATE:** March 3, 2017

**TO:** Joel Leader, Assistant Principal

SUBJECT: LHS Killough - IAQ - Initial Contact - ARD Conference Room - Suite A104

On Thursday, 3/2, I received W.O. #404744: "Please check for black mold in the ARD conference room. We have a teacher who says she is only allergic to that and her nose goes crazy in that room. Also, our diag has been especially sick lately." This morning 3/3, I inspected ARD conference room. Found 2 stained ceiling tiles. The Central Zone will replace those tiles. I have submitted a P.O. request to have the room Air Tested. The test should be done the first of next week, and we should have results back by Thursday 3/9. If you have any questions, please contact me. Thanks, Paul

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



**DATE:** March 13, 2017

**TO:** Joel Leader, Assistant Principal

SUBJECT: LHS-Killough - IAQ - Air Test Results - ARD Conference Room Suite A104

On Tuesday 3/7, Apex-Titan Air tested the ARD Conference Room A-104. 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 ARD Conference Room A-104, was **7.8**% of the outdoor levels. Utilizing this theory, the indoor concentrations are well 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



March 10, 2017

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

Re: Limited Mold Assessment Services

Killough LHS North ARD Conference Room 1301 Summit Avenue Lewisville. Texas

LISD PO No. 91725509-00 Apex Project No. 725010727064

# **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 Killough LHS North Building located at 1301 Summit Avenue in Lewisville, Texas (hereinafter referred to as the "Site"). The investigation was limited to areas of the Site identified by Lewisville I.S.D. as described below. The assessment was performed by Mr. Clinton S. Jech, a State of Texas licensed Mold Assessment Technician (Lic. No. MAT1075) on March 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 ARD Conference Room. Apex's mold assessment services were limited to the Investigation Area(s) identified by Lewisville, I.S.D. Additional areas or portions of the Site were out-of-scope and not included in Apex's mold assessment or this report at this time.

## **Scope of Work**

As set forth in Apex's Mold Assessment Proposal (No. P725010727064) dated March 6, 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 March 7, 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 73.7 degrees Fahrenheit while relative humidity was reported as 42.3 percent. Temperature readings collected outside the building ranged from 66.5 to 67.2 degrees Fahrenheit while outside relative humidity ranged from 11.0 to 11.2 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 11 to 12% which is considered normal by the manufacturer.



# **Air Monitoring Results**

Apex collected one (1) sample from the interior of the investigation area and two (2) samples from the exterior of the building. The microbial samples were analyzed by Steve Moody Micro Services, LLC (SMMS) in Farmers Branch, Texas; SMMS is a State of Texas licensed mold analysis laboratory and accredited under the AIHA Laboratory Quality Assurance Program for Environmental Microbiology.

Air testing performed using spore traps indicated that total airborne mold spores in the 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 155 counts/m³, while the exterior level ranged from 1,974 to 1,982 counts/m³.

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 ARD Conference room reported Oidium as 7 counts/m³ and Drechslera/Bipolaris Group as 7 counts/m³ while no exterior levels were reported.

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

# **Suspect Mold**

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

# **Conclusions and Recommendations**

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

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

Sincerely,

Apex TITAN, Inc.

Clinton S. Jech

Manager, Field Services

Texas Mold Assessment Technician, Lic. No. MAT1075

Darren G. Bowden

Senior Program Manager

Texas Mold Assessment Consultant, Lic. No. MAC0321

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



# **ATTACHMENT 1**

Analytical Results/Chain of Custody





**Summary** 

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-02985

**Project:** Killough LHS North, ARD Conference Room **Report Date:** 03/09/2017 1:04 PM

725010727064 Project #: **Sample Date:** 03/07/2017

Sample Type: Spore Trap, Non-cultured Spore Trap Type: Zefon - Air-O-Cell

Test Method: Mold: ASTM D7391-09 - Standard Profile Page 1 of 2

On 3/7/2017, 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, Southwest	Cladosporium	934	47%		
			Hyphal / Spore Fragments	687	35%		
			Ascospores	100	5%		
			Alternaria	100	5%		
			Myxomycete / Rust / Smut	40	2%		
			Basidiospores	40	2%		
			Epicoccum	27	1%		
			Aspergillus / Penicillium	27	1%		
			Nigrospora	13	<1%		
			Ulocladium / Stemphylium	7	<1%		
			Chaetomium	7	<1%		
			Total:	1982	100%		
2	150	Exterior, Northwest	Cladosporium	767	39%		
		,	Hyphal / Spore Fragments	487	25%		
			Ascospores	227	11%		
			Myxomycete / Rust / Smut	200	10%		
			Aspergillus / Penicillium	113	6%		
			Basidiospores	107	5%		
			Alternaria	27	1%		
			Nigrospora	20	1%		
			Epicoccum	13	<1%		
			Curvularia	13	<1%		
			Total:	1974	100%		



**Client:** 

**Project:** 

Project #:

# **IAQ Mold Report**

**Summary** 

2051 Valley View Lane

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

Apex Titan, Inc. - Dallas

Killough LHS North, ARD Conference Room

**Lab Job No.:** 17F-02985

**Report Date:** 03/09/2017 1:04 PM

**Sample Date:** 03/07/2017

Spore Trap Type: Zefon - Air-O-Cell

Page 2 of 2

DSHS License No.: LAB0117

AIHA EMPAT ID: 102577

Sample Type: Spore Trap, Non-cultured

725010727064

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

On 3/7/2017, 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	ARD Conference Room	Cladosporium	33	21%		
			Aspergillus / Penicillium	27	17%		
			Hyphal / Spore Fragments	20	13%		
			Basidiospores	20	13%		
			Alternaria	13	8%		
			Oidium	7	5%		
			Ulocladium / Stemphylium	7	5%		
			Drechslera / Bipolaris group	7	5%		
			Curvularia	7	5%		
			Chaetomium	7	5%		
			Ascospores	7	5%		
			Total:	155	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

Lab Director: Bruce Crabb

Thank you for choosing Moody Labs

Approved Signatory: Bene Call

SMLMS v12.08



# **Data Detail**

2051 Valley View Lane

Client:

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

Apex Titan, Inc. - Dallas

**Lab Job No.:** 17F-02985

DSHS License No.: LAB0117

AIHA EMPAT ID: 102577

**Project:** Killough LHS North, ARD Conference Room **Report Date:** 03/09/2017 1:04 PM

**Project #:** 725010727064 **Sample Date:** 03/07/2017

Sample Type: Spore Trap, Non-cultured Spore Trap Type: Zefon - Air-O-Cell

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

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

Sample ID:	1			2			3					
Location:	Exterior, Southwest			Exterior, Northwest			ARD Conference Room					
Media Expires On:		Nov 2017			Nov 2017			Nov 2017				
Notes Included:												
Volume:			150				150				150	
	raw ct.	MDL	spores/m³		raw ct.	MDL	spores/m³		raw ct.	MDL	spores/m³	
Alternaria	15	6.67	100	5%	4	6.67	27	1%	2	6.67	13	8%
Ascospores	15	6.67	100	5%	34	6.67	227	11%	1	6.67	7	5%
Aspergillus / Penicillium	4	6.67	27	1%	17	6.67	113	6%	4	6.67	27	17%
Basidiospores	6	6.67	40	2%	16	6.67	107	5%	3	6.67	20	13%
Chaetomium	1	6.67	7	<1%					1	6.67	7	5%
Cladosporium	140	6.67	934	47%	115	6.67	767	39%	5	6.67	33	21%
Curvularia					2	6.67	13	<1%	1	6.67	7	5%
Drechslera / Bipolaris group									1	6.67	7	5%
Epicoccum	4	6.67	27	1%	2	6.67	13	<1%				
Hyphal / Spore Fragments	103	6.67	687	35%	73	6.67	487	25%	3	6.67	20	13%
Memnoniella												
Myxomycete / Rust / Smut	6	6.67	40	2%	30	6.67	200	10%				
Nigrospora	2	6.67	13	<1%	3	6.67	20	1%				
Oidium									1	6.67	7	5%
Stachybotrys												
Ulocladium / Stemphylium	1	6.67	7	<1%					1	6.67	7	5%
TOTALS	297		1982	100%	296		1974	100%	23		155	100%
Analyst		Nin	a Mims		Nina Mims				Nina Mims			
Analysis Date		3/9	9/2017		3/9/2017				3/9/2017			
Debris Rating	3			3			3					
Debris Composition												
Fibers	1/5			1/5			2/5					
Inorganic/Other	4/5			4/5			2/5					
Insect Parts	1/5				1/5			0/5				
Pollen	2/5				1/5				0/5			
Skin/Dander	0/5				0/5			3/5				

End of Data Detail section 17F-02985

SMLMS v12.08



# **Analytical Notes**

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-02985

Project: Killough LHS North, ARD Conference Room Report Date: 03/09/2017 1:04 PM

**Project #:** 725010727064 **Sample Date :** 03/07/2017

Sample Type: Spore Trap, Non-cultured Spore Trap Type: Zefon - Air-O-Cell

**Test Method:** Mold: ASTM D7391-09 - Standard Profile Page 1 of 2

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

NOTE: No abnormalities or exceptions noted during analysis. All samples suitable for analysis.

NOTE: No discernable field blanks were included with this sample set.

### Methods

Method: ASTM D7391-09. A standard spore trap reading consists of a 30% reading for small spores; 100% of the sample is read for medium and large spores. A 100% reading is provided for containment samples, upon request, or otherwise as noted. Use final spore concentrations, not raw spore counts, for interpretation of results.

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

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

Moody Labs recommends two significant figures for calculated values based on ASTM D7391-09.

This report must not be used by the customer to claim product certification, approval, or endorsement by AIHA, ISO, or any agency of the Federal Government.

## **Debris Rating Key**

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

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



# **Analytical Notes**

2051 Valley View Lane

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

**Client:** Apex Titan, Inc. - Dallas

**Project:** Killough LHS North, ARD Conference Room

**Project #:** 725010727064

Sample Type: Spore Trap, Non-cultured

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

**Lab Job No.:** 17F-02985

**Report Date:** 03/09/2017 1:04 P

**Sample Date :** 03/07/2017

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

DSHS License No.: LAB0117

AIHA EMPAT ID: 102577

Page 2 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.



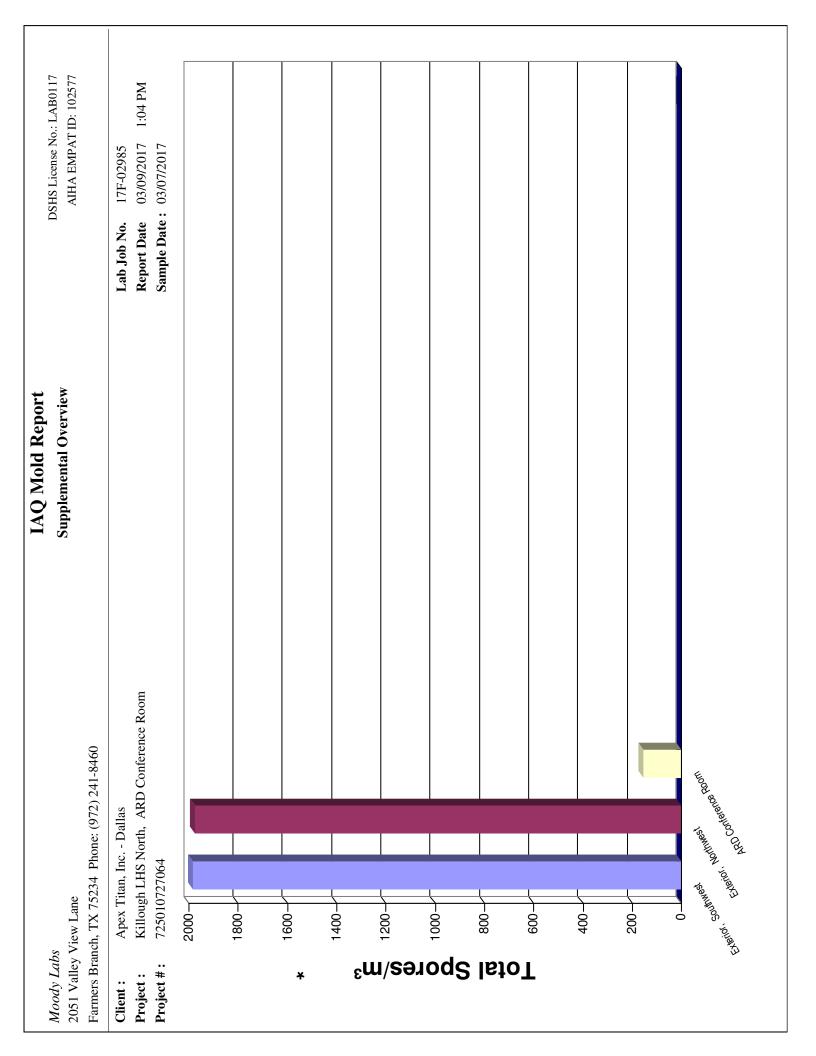
LAB#102577







End of Analytical Notes section 17F-02985





Supplemental Overview

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

Killough LHS North, ARD Conference Room

**Project #:** 725010727064

Project :

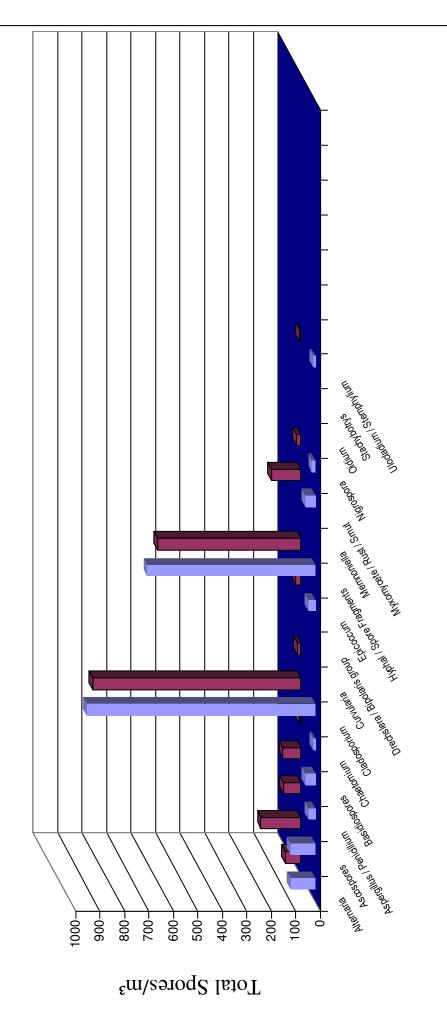
Exterior, Southwest

 Lab Job No.
 17F-02985

 Report Date
 03/09/2017
 1:04 PM

**Sample Date:** 03/07/2017





Average Reference 1 = Exterior, Southwest, Exterior, Northwest



Supplemental Overview

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: Killough LHS North, ARD Conference Room

725010727064

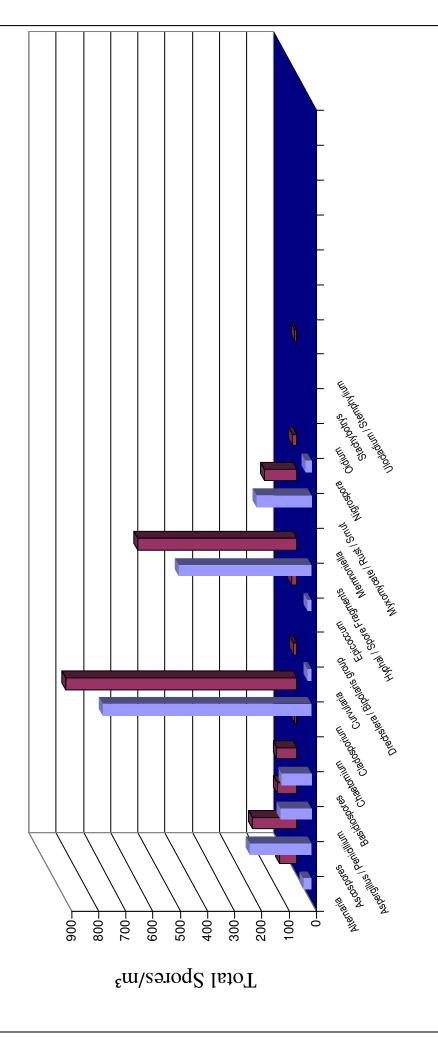
Project #:

Exterior, Northwest

**Lab Job No.** 17F-02985 **Report Date** 03/09/2017 1:04 PM

**Sample Date:** 03/07/2017

Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, Southwest, Exterior, Northwest



Supplemental Overview

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: Killough LHS North, ARD Conference Room

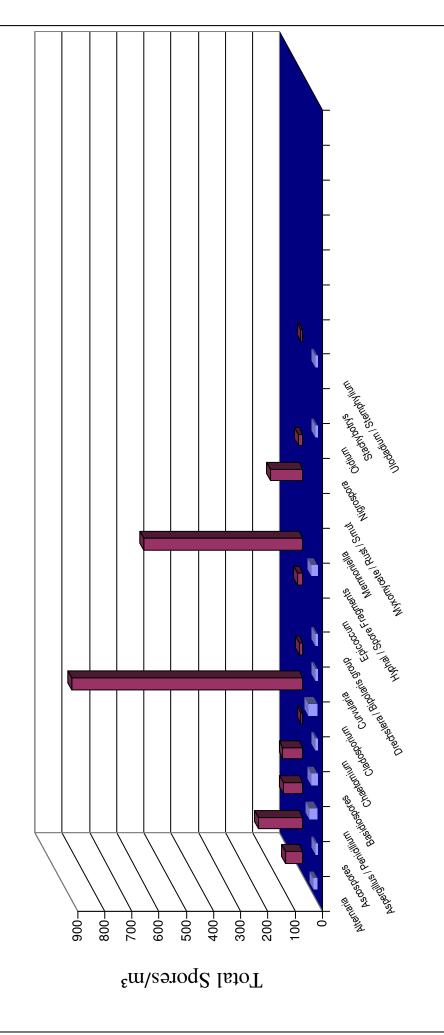
**Project #:** 725010727064

ARD Conference Room

**Lab Job No.** 17F-02985 **Report Date** 03/09/2017 1:04 PM

Sample Date: 03/07/2017

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, Southwest, Exterior, Northwest

End of Supplemental Overview section

17F-02985



# Chain of Custody

Lab Job #	17F-02905+09	3
Lab Job #_ Lab Job #_		

ASBESTOS I	*Please call in advance for im	mediate, after-hour, &		ing & availabil	ity.*	Page	of
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PCM Air (74			Expande	ed Air 🔲	Immediate	1 day	
	] Immediate 🗌 1 day 🔲 2 day	3 day 5 day	Culture*		10-14 days		,
	T(0500/0600)	_	Analyze	Blanks L	Yes	□ No	
	☐ 1 day ☐ 2 day	•	BACTERIA		sampies subj	ect to Cultur	e Growth**
ASBESTOS 1				Counts (CC)		☐ 3 day	□ 5 day
Air AHERA M	1ethod ☐ Late Night* ☐ 6 hr	🔲 12 hr 🔲 24 hr	CC + Gr	am Stain		3 day	
Air 7402 (Mo Bulk		3 day		& E. coli (P/A	١)	2-3 day	•
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Analyze Bla	nks Yes No	5 cc,	<b>OTHER:</b>			,	
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Billing Comp	any / City: Apex Titen,	Inc			# of Sampl	es: <b>3</b>	
Submitter's Co	ompany:					te: <b>3/7-12</b>	
Submitter's Na	ame: Cliaton S. Jecl				Project #:	72501072	
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Contact Infor	rmation: Name: Clint JE	th.			Makile # . 4		
F-mail Booulte	to: Ch. 1/0					( <del>972)</del> 989	
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	ss: Vecenien						
*Please review pap	perwork and samples before submitting to lab. L	Insealed / improperly packaged	/ damaged / expire	ed samples or excess	sive administrativ	e requests may in	cur additional fees*
Notes:					- 1		
Sample #	Sample Descri	abi a u	Vol. / Area	1			
Sumple #	Sample Descri	puon	(if applicable)		Location	/ Notes	
1							
2	Exterior, Southwest	-	150	T=66.5			
	Externor Northwest		150	T= 67.20			
3	ARD Conference Room	·	150	T= 73.7 .	H= 423	1/ M=11	-12 4.
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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.

