

**DATE:** April 14, 2015

**TO:** Curtis Martin, Principal

**SUBJECT:** Tom Hicks ES - IAQ - Initial Contact - Room E-206

Yesterday 4/13, I received Work Order #215300: "Very bad smell in classroom every time it rains." Yesterday 4/13, at 8:55 AM, I inspected room E-206. Room showed no evidence of water intrusion. I told the teacher that we would Air Test the room. I am submitting a request for a P.O. to Air Test the room within the week. Conditions need to be no rain and above 60 degrees for the Air Test. As soon as I get the results, I will pass them on to you. If you have any questions, please contact me. Thanks, Paul

Paul Siddall Maintenance Energy Auditor (IAQ) Facility Services Lewisville ISD 469-446-8882



**DATE:** April 30, 2015

**TO:** Curtis Martin, Principal

**SUBJECT:** Hicks ES - IAQ - Results report - Room E-206

On Monday 4/27, Apex-Titan Air tested Room E-206. It is typically assumed that indoor spore levels in an area with filtered or air conditioned air, and activity levels associated with schools average 10% to 40% of the outdoor levels. Data from the airborne fungi sampling indicated that the total indoor concentration of mold/fungi in Room E-206, was **0.2**% 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 469-446-8882



May 22, 2015

Lewisville Independent School District 340 Lake Haven Lewisville, Texas 75057

Attn: Mr. Paul Siddall

Re: Limited Mold Assessment Services

Tom Hicks Elementary School

Room E-206

3651 Compass Drive

Frisco, Texas

LISD PO No. 91529946-00 Apex Project No. 7250115124

### **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 Tom Hicks Elementary School located at 3651 Compass Drive in Frisco, 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. Darren G. Bowden, a State of Texas licensed Mold Assessment Consultant (Lic. No. MAC0321) on April 27, 2015. 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 E-206. 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. P01151172) dated April 16, 2015. 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 27, 2015 by Mr. Darren G. Bowden. Apex's visual reconnaissance of the Investigation areas revealed the following:

## **Temperature and Relative Humidity**

Temperature readings collected inside the room ranged from 76.2 to 77.3 degrees Fahrenheit while relative humidity ranged from 48.2 to 49.4 percent. Temperature readings collected outside the building ranged from 71.4 to 72.5 degrees Fahrenheit while outside relative humidity ranged from 47.7 to 48.3 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 were reported as 6% which is considered normal by the manufacturer.



### **Air Monitoring Results**

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

Air testing performed using spore traps indicated that total airborne mold spores in the classroom 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 193 counts/m³, while the exterior level ranged from 81,927 to 87,111 counts/m³.

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 room E-206 reported Drechslera / Bipolaris group as 20 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 (214) 350-5469.

Sincerely,

Apex TITAN, Inc.

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





Client:

**Project:** 

Project #:

## **IAQ Mold Report**

**Summary** 

2051 Valley View Lane

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

Hick ES, Room E-206

7250115124

Apex TITAN, Inc. - Dallas, TX

**Lab Job No.** 15F-05173

**Report Date** 04/30/2015 9:51 AM

DSHS License No.: LAB0117

AIHA EMPAT ID: 102577

**Sample Date :** 04/27/2015

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

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

On 4/28/2015, three (3) samples were submitted by Darren Bowden of Apex TITAN, Inc. - Dallas, TX (located at 2351 W. NW Highway #3321, Dallas, TX 75220) for Spore Trap, Non-cultured mold analysis. This report consists of three sections; a summary section, a data detail section, and an analytical notes section.

Sample Number	Volume (liters)	Sample Description	Identification		ntration
1	* See Analytical Notes report for further details  Cladosporium Hyphal / Spore		Hyphal / Spore Fragments Drechslera / Bipolaris group	93 33 27 20 20	48% 17% 14% 10% 10%
			Total:	193	100%
2	75	Outside	Basidiospores Ascospores Cladosporium Aspergillus / Penicillium Myxomycete / Periconia / Rust / Smut Coprinus group Hyphal / Spore Fragments	40270 28686 8278 6478 2946 280 173	46% 33% 10% 7% 3% <1%
			Total:	87111	100%
3	75	Outside	Basidiospores Ascospores Cladosporium Aspergillus / Penicillium Myxomycete / Periconia / Rust / Smut Coprinus group Agaricales group Hyphal / Spore Fragments Torula	37871 24860 6972 6945 2853 1133 866 280 147	46% 30% 9% 8% 3% 1% <1% <1%
			Total:	81927	100%



**Client:** 

## **IAQ Mold Report**

Summary

2051 Valley View Lane

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

Apex TITAN, Inc. - Dallas, TX **Lab Job No.** 15F-05173

**Project:** Hick ES, Room E-206 **Report Date** 04/30/2015 9:51 AM

Project #: 7250115124 **Sample Date :** 04/27/2015

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

On 4/28/2015, three (3) samples were submitted by Darren Bowden of Apex TITAN, Inc. - Dallas, TX (located at 2351 W. NW Highway #3321, Dallas, TX 75220) for Spore Trap, Non-cultured mold analysis. This report consists of three sections; a summary section, a data detail section, and an analytical notes section.

Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter

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.

Rob Greene Analyst(s):

Lab Manager: Heather Lopez Lab Director: Bruce Crabb

Approved Signatory: Bene Call Thank you for choosing Moody Labs

SMLMS v11.11

DSHS License No.: LAB0117

AIHA EMPAT ID: 102577



**Client:** 

# IAQ Mold Report

## **Data Detail**

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460 Apex TITAN, Inc. - Dallas, TX

**Lab Job No.:** 15F-05173

DSHS License No.: LAB0117

AIHA EMPAT ID: 102577

**Project:** Hick ES, Room E-206 **Report Date:** 04/30/2015 9:51 AM

**Sample Date:** 04/27/2015 Project #: 7250115124

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

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

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.

This report consists of three sections; a summar	ry section	i, a data	detail sectio	n, and a	an anaiyi	icai not	es section. K	esuits n	nay not c	e report	ed except in	IuII.
Sample ID:	1			2			3					
Location:	Room E206				Outside			Outside				
Media Expires On:		Oc	t 2015		Oct 2015			Oct 2015				
Notes Included:												
Volume:			150		75			75				
	raw ct.	MDL	spores/m³		raw ct.	MDL	spores/m³		raw ct.	MDL	spores/m³	
Agaricales group									65	13.33	866	1%
Ascospores					2152	13.33	28686	33%	1865	13.33	24860	30%
Aspergillus / Penicillium	14	6.67	93	48%	486	13.33	6478	7%	521	13.33	6945	8%
Basidiospores	3	6.67	20	10%	3021	13.33	40270	46%	2841	13.33	37871	46%
Chaetomium												
Cladosporium	5	6.67	33	17%	621	13.33	8278	10%	523	13.33	6972	9%
Coprinus group					21	13.33	280	<1%	85	13.33	1133	1%
Drechslera / Bipolaris group	3	6.67	20	10%								
Hyphal / Spore Fragments	4	6.67	27	14%	13	13.33	173	<1%	21	13.33	280	<1%
Memnoniella												
Myxomycete / Periconia / Rust / Smut					221	13.33	2946	3%	214	13.33	2853	3%
Stachybotrys												
Torula									11	13.33	147	<1%
TOTALS	29		193	100%	6535		87111	100%	6146		81927	100%
Analyst		Rob	Greene		Rob Greene				Rob Greene			
Analysis Date		4/3	0/2015		4/30/2015			4/30/2015				
Debris Rating	5		4			4						
Debris Composition												
Fibers	2/5			1/5				1/5				
Inorganic/Other	3/5			3/5			3/5					
Insect Parts	0/5			0/5			0/5					
Pollen	0/5			3/5				3/5				
Skin/Dander			5/5				1/5			1/5		



## **IAQ Mold Report**

## **Analytical Notes**

DSHS License No.: LAB0117 2051 Valley View Lane AIHA EMPAT ID: 102577

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

Apex TITAN, Inc. - Dallas, TX **Client: Lab Job No.:** 15F-05173

**Project:** Hick ES, Room E-206 **Report Date:** 04/30/2015 9:51 AM

7250115124 Project #: **Sample Date:** 04/27/2015

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.

#### Samples Analyzed

1: Room E206 Sample No: Notes: 025% Occluded.

#### Field Blanks

No discernable field blanks were submitted with this set of samples.

### NOTE: All remaining samples suitable for analysis.

#### **Methods**

Method: ASTM D7391-09: Categorization and Quantification of Airborne Fungal Structures in an Inertial Impaction Sample by Optical Microscopy.

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

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

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 debris detected.
- 1 Trace debris.
- 2 Light debris.
- 3 Moderate debris.
- 4 Substantial debris.
- 5 Extensive debris.
- 6 Field blank.
- 10 Hold Sample

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



## **IAQ Mold Report**

## **Analytical Notes**

2051 Valley View Lane

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

**Client:** Apex TITAN, Inc. - Dallas, TX

Project: Hick ES, Room E-206 Report Date: 04/30/2015

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 notes section. Results may not be reported except in full.



LAB#102577







DSHS License No.: LAB0117

**Lab Job No.:** 15F-05173

AIHA EMPAT ID: 102577

9:51 AM

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577 9:51 AM 04/30/2015 **Sample Date:** 04/27/2015 15F-05173 Report Date Lab Job No. Supplemental Overview IAQ Mold Report Farmers Branch, TX 75234 Phone: (972) 241-8460 Apex TITAN, Inc. - Dallas, TX Hick ES, Room E-206 apelno 7250115124 2051 Valley View Lane L00006 70000 -00009 40000--00008 20000--00009 30000 Moody Labs Project #: Project: Client: Total Spores/m³

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577 9:51 AM 04/30/2015 **Sample Date:** 04/27/2015 15F-05173 Report Date Lab Job No. Sample ■ Average Reference 1 □ Average Reference 2 Supplemental Overview IAQ Mold Report elmo+ Room E206 , smoothpats My my Bush binopisal sagmown Stranger Janas | Rudh anolo shelodis legistral d milodeopelo Chaebhium Farmers Branch, TX 75234 Phone: (972) 241-8460 sayokop)ised Apex TITAN, Inc. - Dallas, TX TIMINONIA SAMBABASA Average Reference 1 = Outside, Outside Hick ES, Room E-206 ono sakojukov 7250115124 10000 40000-35000-30000-25000-20000-15000-5000 2051 Valley View Lane Total Spores/m³ Moody Labs Project #: Project: Client:

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577 9:51 AM 04/30/2015 **Sample Date:** 04/27/2015 15F-05173 Report Date Lab Job No. Sample ■ Average Reference 1 □ Average Reference 2 Supplemental Overview IAQ Mold Report elmo+ Shoompers Outside shangar Jangs | kingh drop stelone leastest Muhodeobelo Chaebhium Farmers Branch, TX 75234 Phone: (972) 241-8460 sayokop)ised Apex TITAN, Inc. - Dallas, TX Milliphad Sullipaded Average Reference 1 = Outside, Outside Hick ES, Room E-206 ono sakojukov 7250115124 45000-40000-35000-30000-25000-20000-15000-10000 -0009 2051 Valley View Lane Total Spores/m³ Moody Labs Project #: Project: Client:

DSHS License No.: LAB0117 AIHA EMPAT ID: 102577 9:51 AM 04/30/2015 **Sample Date:** 04/27/2015 15F-05173 Report Date Lab Job No. Sample ■ Average Reference 1 □ Average Reference 2 Supplemental Overview IAQ Mold Report elmo+ Shoompers Outside shangar Jangs | kingh anolo shelodis legistral d Muhodeobelo Chaebhium Farmers Branch, TX 75234 Phone: (972) 241-8460 sahokopised Apex TITAN, Inc. - Dallas, TX Milliphad Sullipaded Average Reference 1 = Outside, Outside Hick ES, Room E-206 7250115124 10000 40000-35000-30000-25000-20000-15000--0009 2051 Valley View Lane Total Spores/m³ Moody Labs Project #: Project: Client:



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**Moody Labs** ◆ 2051 Valley View Ln. ◆ Farmers Branch, TX 75234 ◆ Phone (972) 241-8460 ◆ Fax (972) 241-8461 <u>www.moodylabs.com</u>

## **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.

