

DATE: May 13, 2014

TO: Gary Gibson, Principal

SUBJECT: Shadow Ridge MS - IAQ - Initial Contact - Room 1018

Yesterday 5/12, I received W.O. #186160: "Teacher expressing concern about air in room 1018-they report, "noticed we get really congested during the day at school but clear up as soon as we leave". I inspected Room 2018 this morning 5/13 and found no water intrusion. I will be requesting a P.O. to Air Test Room 1018 this week, and we should have the results back by Monday 5/19. If you have any questions, please contact me.

Thanks, Paul

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



DATE: July 2, 2014

TO: Gary Gibson, Principal

SUBJECT: Shadow Ridge ES – IAQ – Results report – Room 1018

On Wednesday 5/21, SWG Air tested the Room 1018. 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 the Room 1018, was **18.6%** 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 469-446-8882



May 27, 2014

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

Re: Limited Mold Assessment Services

Shadow Ridge Middle School

Room1018

2050 Aberdeen Road Flower Mound, Texas Apex Project No. 0114H135 LISD PO# 91402089-00

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 Shadow Ridge Middle School located at 2050 Aberdeen Road in Flower Mound, 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 21, 2014. 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 1018. 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. P0114H1196) dated May 19, 2014. 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 21, 2014 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 72.8 degrees Fahrenheit while relative humidity was reported as 46.1 percent. Temperature readings collected outside the building ranged from 81.3 to 82.0 degrees Fahrenheit while outside relative humidity ranged from 51.2 to 51.3 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 rooms were ranged from 9-16% 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, Inc. (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 466 counts/m³, while the exterior level ranged from 1,360 to 2,507 counts/m³.

One (1) type of mold was identified at a higher concentration within the investigation area as compared to the sample collected from the exterior of the building. The air sample collected within room 1018 reported Aspergillus/Penicillium as 153 counts/m³ while exterior levels were reported as 147 counts/m³.

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.

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 Industrial Hygiene Services

Texas Mold Assessment Consultant

Lic. No. MAC0321

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



ATTACHMENT 1

Analytical Results/Chain of Custody



Steve Moody Micro Services, LLC

2051 Valley View Lane

DSHS License No.: LAB0117

AIHA EMPAT ID: 102577

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

Client: Apex TITAN, Inc. - Dallas, TX Lab Job No. 14F-06212

Project: Shadow Ridge MS, Room 1018 Report Date 05/23/2014 2:10 PM

Project #: 7210114H135 **Sample Date:** 05/21/2014

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 5/21/2014, three (3) samples were submitted by Clint Jech 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 ibic meter
1	* See Analytical Notes report for further details A M C H A		Basidiospores Cladosporium Ascospores Aspergillus / Penicillium Myxomycete / Periconia / Rust / Smut Coprinus group Hyphal / Spore Fragments Agaricus / Agrocybe Epicoccum	1293 507 227 147 120 107 80 13	52% 20% 9% 6% 5% 4% 3% <1%
2 75 Exterior, West * See Analytical Notes refurther details		* See Analytical Notes report for	Cladosporium Hyphal / Spore Fragments	2507 360 240 240	100% 26% 18% 18%
			Basidiospores Myxomycete / Periconia / Rust / Smut Aspergillus / Penicillium Ascospores Alternaria	200 133 107 80	15% 10% 8% 6%
			Total:	1360	100%
3	150	Room 1018 * See Analytical Notes report for further details	Aspergillus / Penicillium Basidiospores Cladosporium Hyphal / Spore Fragments Myxomycete / Periconia / Rust / Smut	153 120 107 53 33	33% 26% 23% 11% 7%
			Total:	466	100%

Steve Moody Micro Services, LLC

2051 Valley View Lane

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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.

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

Analyst(s): Rebecca Lutz, Rob Greene

Lab Director: Bruce Crabb

Approved Signatory:

Thank you for choosing Steve Moody Micro Services

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Steve Moody Micro Services, LLC

Data Detail

DSHS License No.: LAB0117

2051 Valley View Lane

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Page 1 of 1

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Sample ID:	1		2		3			1			
Location:	Exterior, Southwest			Exterior, West		Room 1018					
Debris Rating:	2			2		4					
Media Expires On:		Feb 2	015	Feb 2015		Feb 2015					
Notes Included?:	See	Analyti	cal Notes	See Analytical Notes		See Analytical Notes					
Volume:		75	j	75			150				
	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³	raw ct.	MDL	spores/m³		
Agaricus / Agrocybe	1	13.33	13 (<1%)								<u> </u>
Alternaria				6	13.33	80 (6%)					1
Ascospores	17	13.33	227 (9%)	8	13.33	107 (8%)					1
Aspergillus / Penicillium	11	13.33	147 (6%)	10	13.33	133 (10%)	23	6.67	153 (33%)		1
Basidiospores	97	13.33	1293 (52%)	18	13.33	240 (18%)	18	6.67	120 (26%)		1
Chaetomium											1
Cladosporium	38	13.33	507 (20%)	27	13.33	360 (26%)	16	6.67	107 (23%)		1
Coprinus group	8	13.33	107 (4%)								1
Epicoccum	1	13.33	13 (<1%)								1
Hyphal / Spore Fragments	6	13.33	80 (3%)	18	13.33	240 (18%)	8	6.67	53 (11%)		1
Memnoniella											
Myxomycete / Periconia / Rust / Smut	9	13.33	120 (5%)	15	13.33	200 (15%)	5	6.67	33 (7%)		
Stachybotrys											
TOTALS	188		2507 (100%)	102		1360 (100%)	70		466 (100%)		
Analyst	Rebecca Lutz		Rebecca Lutz		Rob Greene						
Analysis Date		5/23/2014		5/23/2014		5/23/2014					

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.

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

Steve Moody Micro Services, LLC Analytical Notes DSHS License No.: LAB0117 2051 Valley View Lane AIHA EMPAT ID: 102577

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

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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 Sample No: 1: Exterior, Southwest Notes: EXPANDED DEBRIS DESCRIPTION Skin/Dander: 1/5 Inorganic/Other: 2/5 Insect Parts: 1/5 Fibers: 1/5 Pollen: 0/5 Sample No: 2: Exterior, West Notes: .____ **EXPANDED DEBRIS DESCRIPTION** Skin/Dander: 1/5 Inorganic/Other: 2/5 Insect Parts: 1/5 Fibers: 1/5 Pollen: 1/5 Sample No: 3: Room 1018 Notes: EXPANDED DEBRIS DESCRIPTION Skin/Dander: 4/5 Inorganic/Other: 2/5 Insect Parts: 0/5 Fibers: 2/5 Pollen: 0/5

Field Blanks

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

Steve Moody Micro Services, LLC Analytical Notes DSHS License No.: LAB0117 2051 Valley View Lane AIHA EMPAT ID: 102577

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Page 2 of 2

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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.

Steve Moody Micro Services 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.

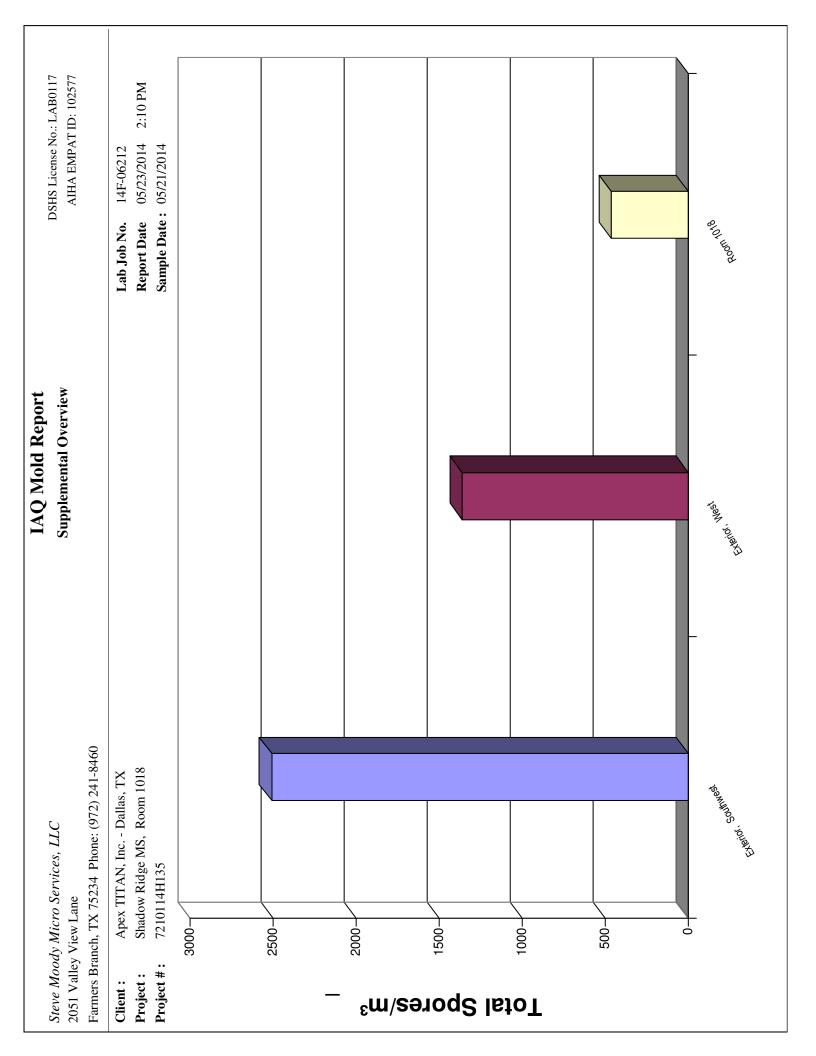


LAB#102577









Chain of Custody



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	.00)		Immediate	Water Analyze B	□1_day	☐2 day	☐3 day
Analyz	e (Tape / Bulk / Air Standard Profi Bar Air Standard Profi e Blanks Yes wab / Bulk / Plate) 7-14 da	le Air Expanded Pa No	mediate rofile	HPC + Gram S	Neg ID	☐3 day	
OTHER:				Total Coliform	& E Coli (P/A)	□2-3 day	
Billing Com	pany / City: Apex T.A	Dallas So	esth)		# of Samples:		
Submitter's (Company: Aper Titan				Sample Date:	5121/201	4
	Name: Clist Jech					10114H13	5
Project: 🍕	udow Riage MS Ro	om 1018			Phone #:		
Contact Info	ormation: Name: Clint 10	arren Nesanica			Mobile #: 	12) 989-4	231
E-mail Resul	Its to: Clint/ Darren /sle	conice			Fax #:		
Invoice Add	ress: Vecanica				P.O. #:		
	erwork <u>and</u> samples before submitting to la	ab. Unsealed / improperly package	d / damaged / exp	ired samples or exces	sive administrative requ	uests may incur ad	ditional fees
Notes:							
Sample #	Sample Desc	ription	Vol. / Area if applicable		Location / N	otes	
1	Exterior, Southwa		75	7=81.3	° H= 51.3	1.	
2	Exterior, West		75	T. 82.0	"H= 51.2	<u>*/-</u>	
3	Room 1018		150	7= 78.80	H= 46.1 .	. M. 9-1	6 %
				Ceilings & C	eiling Tila		·
				Walls = E	rywall		
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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 (and the Texas Mold Assessment & Remediation Rules), 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 in Texas 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.

Texas Licensing Requirements. Apex (and/or its personnel) will render the services set forth in this proposal in the capacity of a Texas licensed Mold Assessor. Apex is not licensed as a Mold Remediation Contractor and does not perform mold remediation. As of January 1, 2005, Texas law has required that Mold Assessors and Mold Remediation Contractors be licensed.

Mold Remediation Certificate. For mold remediation projects (above certain size thresholds), applicable Texas law (i.e., Texas Occupation Code Section 1958.54 and T.A.C. Section 295.397 (the Texas Mold Assessment and Remediation Rules), requires that a "Certificate of Mold Remediation" be issued by the Mold Remediation Contractor upon successful completion of the project. This certificate must be provided to property owners no later than the 10th day after the date on which the mold remediation is completed at a property. The Mold Remediation Certificate issued by the Mold Remediation Contractor must include a certification by the Mold Assessor that the mold remediation project has been successfully completed in accordance with the mold remediation protocol.

Be advised that Apex's issuance of a Mold Remediation Certificate upon successful completion of a Mold Remediation project does not mean, warrant or otherwise guarantee that mold will not be subsequently found in any portion of the Investigation Area or the Site. In the event that Apex is engaged to render services in connection with a mold remediation project, Apex will require Client to provide to Apex a signed certificate prepared by Client's moisture intrusion specialist or appropriate contractor stating that all sources of moisture which resulted in the presence of mold in the Investigation Area have been fully remediated and corrected.

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.

