



**POST-REMEDATION MOLD ASSESSMENT  
AND CLEARANCE REPORT**

**Bolin Administrative Center  
Suite 105  
1585 W. Main Street  
Lewisville, Texas**

May 30, 2017  
Apex Project No. 72501027079

Prepared for:

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



May 30, 2017

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

Re: Post-Remediation Assessment  
And Clearance Report  
Bolin Administrative Center  
Suite 105  
1585 W. Main Street  
Lewisville, Texas  
Apex Project No. 725010727079

Apex TITAN, Inc., a subsidiary of Apex Companies, LLC (Apex) is pleased to submit its final Post-Remediation Assessment and Clearance Report for recent mold remediation activities at the Site. Apex was retained to undertake Post-Remediation Assessment and Clearance services (hereinafter the "Services") for the Remediation Areas at the site in accordance with Apex's Proposal No. P725010727090 dated May 16, 2017. The Services were authorized by Mr. Paul Siddall of Lewisville Independent School District. Results of Apex's Post-Remediation Assessment and Clearance sampling indicate the Remediation Contractor successfully completed mold remediation activities in the Remediation Areas at the Site and that the Remediation Areas can now be renovated.

Supporting documentation for this report are included in the report appendices and include: a site diagram, photographs, analytical results, work protocol, contractor's work plan and a copy of Apex's portion of the Texas Department of Insurance MDR-1 form.

Apex appreciates opportunity to provide Post-Remediation Assessment and Clearance Services. If you should have any questions, please contact me at (469) 365-1140.

Sincerely,  
**Apex TITAN, Inc.**

A handwritten signature in black ink, appearing to read 'Darren G. Bowden', is written over a white rectangular background.

Darren G. Bowden  
Senior Program Manager  
Mold Assessor License No: MAC0321  
License Expiration Date: 02/15/2018

Attachment

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## 1.0 SCOPE OF SERVICES

Apex TITAN, Inc., a subsidiary of Apex Companies, LLC (Apex) was engaged by Lewisville Independent School District (CLIENT) to conduct a post-remediation mold assessment and clearance sampling for the remediation area at Bolin Administrative Center – Suite 105 located at 1585 W. Main Street, Lewisville, Texas (“Site”). Apex's Post-Remediation Assessment and Clearance Services (hereinafter the “Services”) were conducted for the Remediation Area of the site in accordance with the scope of work set forth in Apex’s Proposal P7250107270090 dated May 16, 2017.

Apex’s services for this project included:

- Visual Reconnaissance of the Lewisville Independent School District identified mold remediation areas (as defined in Section 3.2 below) to verify that the Remediation Area is free from all visible mold and wood rot.
- Visual reconnaissance of the Remediation Areas and review of the project Mold Remediation Protocol and Remediation Work Plan for the project to verify that the mold remediation work was completed in compliance with the Remediation Protocol and Work Plan.
- Conduct verification sampling in Remediation Areas and compare results to clearance criteria in project Mold Remediation Protocol.
- Determine, based upon available information, whether the moisture source identified as the underlying cause of the mold in the Remediation Areas was properly remediated such that it is reasonably certain that the mold will not return from that remediated cause.
- If clearance criteria for the Remediation Area(s) have been achieved, prepare the Mold Assessor’s portion of the Mold Remediation Certificate (on Texas Department of Insurance Form MDR-1).

## 2.0 STANDARD OF CARE, RELIANCE AND LIMITATIONS

### 2.1 *Standard of Care*

Apex performed the 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, express or implied, apply to the Services hereunder or this report.

### 2.2 *Reliance*

The Services were conducted and this report prepared for the benefit and exclusive use of the CLIENT and solely for its use and reliance in assessing whether mold in the project Remediation Areas of the Site had been remediated within clearance criteria set forth in the Mold Remediation Protocol. The CLIENT was 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 Services or this report shall be limited in the aggregate to the fair market value of the Services.

### **2.3 Definitions**

*"Mold" defined.* Mold is a general term used to describe various types of naturally occurring biological organisms occurring worldwide. For purposes of this report (and regulations), the term "mold" is broadly defined to include any living or dead fungi or related products or parts, including spores, hyphae, and mycotoxins.

"Remediation Area" means that portion of the Site where mold remediation activities have been completed and as more particularly defined in Section 3.2 of this report.

### **2.4 Services and Report Limitations**

*Time sensitive.* One must keep in mind that mold assessments, including post-remediation mold assessment and clearance sampling, are essentially a "snap-shot in time," and the results are only relevant as of the time of site reconnaissance and sampling. 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.

*Moisture Intrusion Limitation.* Apex is not a moisture intrusion, HVAC, plumbing, roofing or building envelope contractor or specialist ("Building Trades Specialist"). In performing the Services, Apex has relied upon statements, certifications and/or findings made by the CLIENT, Site owner or Building Trades Specialists that the moisture source which is the underlying cause of mold in the Remediation Areas has been identified and remediated such that it is reasonably certain that the mold will not return from that remediated cause.

*Findings Limited.* Apex's findings from the Services are limited due to their "time-sensitive" nature and because they rely in part upon information prepared or provided by the CLIENT, the Site owner or third parties. Apex cannot warrant the accuracy of any services, investigations, information, data, reports, findings or conclusions prepared, made or performed by any other party in connection with the Mold Remediation Areas or other activities at the Site. Apex assumes no responsibility or liability for errors in information or data provided by or through the CLIENT, the Site owner or any third party sources. Apex's services are not to be construed as legal or medical interpretation or advice.

*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” (hereinafter, “Mold Remediation Certificate”) 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 10<sup>th</sup> 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 Remediation Area or the Site.

### **3.0 SITE DESCRIPTION AND REMEDIATION AREAS**

#### **3.1 *Site Description***

Based on the information provided by the CLIENT, the site consists of fungal growth associated with the sheetrock walls within suite 105 of the Bolin Administrative Center

#### **3.2 *Remediation Areas***

Mr. Paul Siddall of Lewisville Independent School District has identified the following physical portions of the Site as the “Remediation Areas” for performance of the Services: the west demising wall within suite 105 at the Bolin Administrative Center addition. The site diagram in Appendix A depicts the Remediation Area of the Site. Apex’s Post Remediation Mold Assessment and Clearance Services will be limited to the Remediation Area. Additional areas or portions of the Site are out-of-scope and not covered by the Services or this report.

### **4.0 MOLD ASSESSMENT AND MOLD ANALYTICAL RESULTS**

#### **4.1 *Post-Remediation Mold Assessment Results***

Apex conducted its final Post-Remediation Mold Assessment reconnaissance on May 26, 2017. Apex’s visual reconnaissance showed the Remediation Areas, to be free of all visible mold and wood rot. Photographs documenting the condition of the Remediation Areas are contained in Appendix B.

In conjunction with its visual reconnaissance of the Remediation Areas, Apex reviewed the Mold Remediation Protocol and Mold Remediation Work Plan for the Remediation Areas. Apex’s visual reconnaissance of the Remediation Areas indicated that the Mold Remediation Contractor conducted the mold remediation activities in general accordance with the Mold Remediation Protocol and the Mold Remediation Work Plan for the Remediation Areas. Copies of the Mold Remediation Protocol and the Mold Remediation Work Plan are contained in Appendix C and D, respectively.

## **4.2 Mold Analytical Results**

The abatement was performed within one containment. Apex collected one sample inside the containments and two exterior samples utilizing Air O Cell cassettes.

Air O Cell refers to slit impaction air sampling cassette manufactured by Zefon. The collection media for these devices consist of a coverslip coated with a sticky transparent “acrylic” substrate. Containment clearance is contingent upon passing a visual and procedural inspection by an Apex representative in addition to obtaining air monitoring results indicating that airborne mold spore concentrations inside the containment are similar to those obtained outside the structure at the time the sampling was performed.

Upon collection, samples were identified and a chain-of custody-form was prepared. The samples were submitted to Steve Moody Micro Services (SMMS) for subsequent analysis. SMMS is licensed by the State of Texas and maintains in-house quality control/quality assurance programs for their laboratory services.

Total fungal spore concentrations within the containments that achieved clearance on May 26, 2017 ranged from 119 to 187 counts/m<sup>3</sup> while the exterior levels ranged from 2,755 to 6,084 counts/m<sup>3</sup>. Analytical reports are contained in Appendix E.

Laboratory analytical results for the samples confirm that the mold clearance criteria set forth in the Mold Remediation protocol were successfully achieved.

## **4.3 Underlying Cause of Mold**

Based upon the documentation provided to Apex (copy attached in Appendix F), the source of moisture was identified as: water used in the animal shelter bath of the previous tenant.

Based upon the documentation provided by Mr. Paul Siddall of LISD the underlying source of moisture causing mold in the Remediation Areas was successfully remediated. A copy of this documentation is contained in Appendix F.

## **5.0 FINDINGS**

Apex’s findings are as follows:

- Based upon Apex’s visual reconnaissance of the Remediation Areas on May 26, 2017, the Remediation Area is free from all visible mold and wood rot.
- Based upon Apex’s visual reconnaissance of the Remediation Areas and review of the Remediation Protocol for the project, the remediation work was completed in compliance with the Remediation Protocol.
- Based upon Apex’s visual reconnaissance of the Remediation Areas and review of the Remediation Work Plan for the project, the remediation work was completed in compliance with the Remediation Work Plan.
- Based upon the moisture intrusion report prepared by Mr. Paul Siddall, the moisture source identified as the underlying cause of the mold was moisture due to water used in the animal shelter baths of the previous tenant. Based the information provided to Apex

by Mr. Paul Siddall, the source has been properly remediated such that it is reasonably certain that the mold will not return from that remediated cause.

- Temperature and relative humidity readings were taken during the post remediation inspection on May 26, 2017. Temperature reading ranged from 80.0 to 81.5 degrees Fahrenheit inside the containment while relative humidity ranged from 36.5 to 39.5 percent. Temperature readings taken outside the building ranged from 81.5 to 87.8 degrees Fahrenheit while relative humidity ranged from 48.1 to 65.5 percent.
- Based upon Apex's visual reconnaissance of the Remediation Area(s) and its clearance sampling analytical results, the remediation activities were successfully completed by the Remediation Contractor and meet the clearance criteria specified in the Remediation Protocol. A copy of Apex's Mold Assessor) portion of the Mold Remediation Certificate (on Texas Department of Insurance Form MDR-1) is contained in Appendix F.

## **6.0 CONCLUSIONS**

The mold remediation activities in the Remediation Area has been successfully completed, passed clearance, and the Remediation Areas approved for reconstruction.



## **APPENDIX**

## **APPENDIX A**

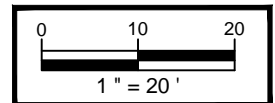
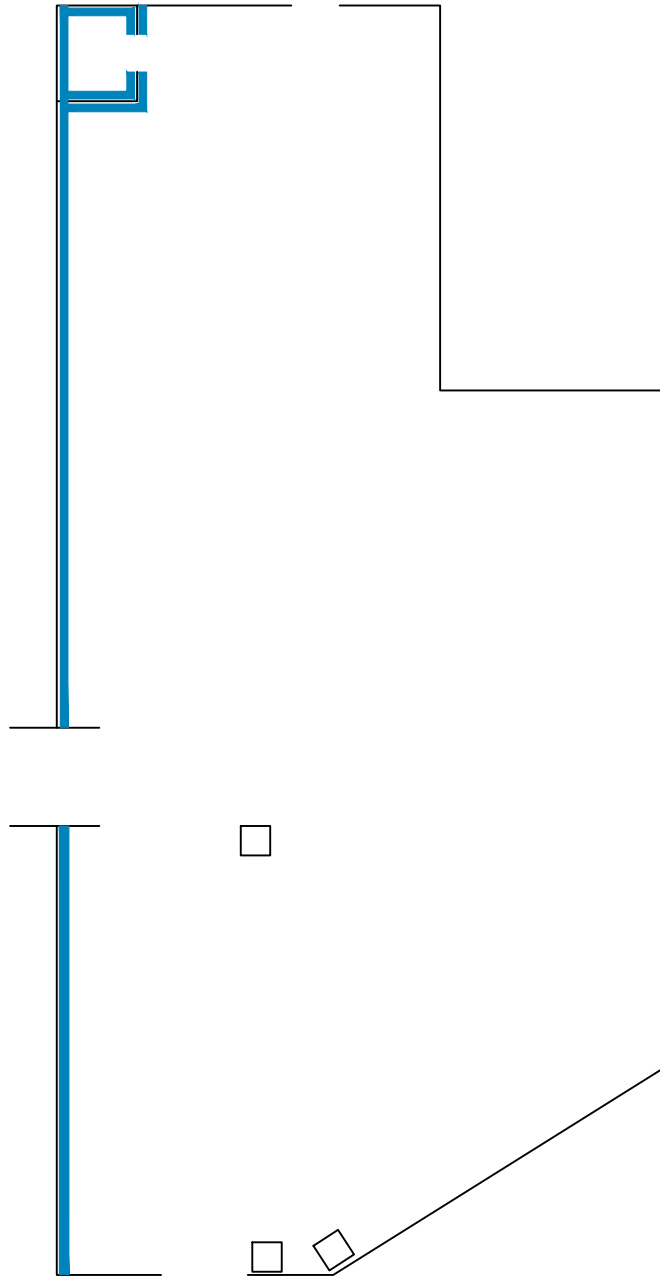
Site Diagram

**LEGEND:**

 Fungal Growth Location

**NOTE:**

Fungal Growth Locations and Drawing Scale are Approximate.



Lewisville Independent School District  
Shopping Center Adjacent to  
Bolin Administrative Center  
1565 W. Main Street  
Lewisville, Texas



**Apex TITAN, Inc.**  
12100 Ford Road, Suite 401  
Dallas, Texas 75234  
Phone: (469) 365-1100  
[www.apexcoss.com](http://www.apexcoss.com)  
A Subsidiary of Apex Companies, LLC

**FIGURE 1**  
**Fungal Growth Location Map**  
**Suite 105**

Project No. 725010727079

## **APPENDIX B**

Photographs

**Photograph 1**

View of remediated area.

**Photograph 2**

View of remediated area.

**Photograph 3**

View of remediated area.



## **APPENDIX C**

### Mold Remediation Protocol



## **MOLD REMEDIATION PROTOCOL**

Shopping Center Adjacent to Bolin Administrative Center  
Suite 105  
1565 W. Main Street  
Lewisville, Texas

May 17, 2017  
Apex Project No. 725010727079

Prepared for:

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

A handwritten signature in black ink, appearing to read 'Darren G. Bowden', is written over a horizontal line.

Darren G. Bowden  
Mold Assessment Consultant  
Texas License No. MAC0321  
Expiration Date: 02/15/2018

## Index

### PROJECT / WORK IDENTIFICATION

- I Material Description and Quantities
- II Work Practices
- III Removal
- IV Disposal
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- VI Notification
- VII Applicable Publications
- VIII Construction Notes



## PROJECT/WORK IDENTIFICATION

General: Project name is Mold Remediation, Shopping Center Adjacent to Bolin Administrative Center, Suite 105, 1565 W. Main Street, Lewisville, Texas, dated May 17, 2017.

### I. Material Description and Quantities

Briefly and without force and effect upon the contract documents, the work of the Contract can be summarized as the removal of fungal growth and associated sheetrock in the following approximate quantities: \*\*

Fungal Growth Associated with Sheetrock Walls..... 500 SF

\*\*Quantities listed are estimates only.

### II. Work Practices

#### A. Respiratory Protection (at a minimum):

During the removal of the fungal growth, the workers will be required to wear, at a minimum, half-face air purifying respirator. The workers will be fit tested in accordance with current OSHA guidelines.

#### B. Protective Clothing:

During removal, workers will be required to wear disposable, full body coveralls, head covers, boots, goggles/eye protection and rubber gloves. Sleeves at wrists and cuffs at ankles shall be secure. Work clothes will be properly disposed of at the conclusion of work.

Authorized visitors, including the consultant's on-site representative, shall be provided with suitable protective clothing when they are required to enter the work area.

#### C. Containment:

Materials shall be abated in a full containment. The containment includes at a minimum: an enclosure consisting of two (2) layers of four (4) millimeter polyethylene sheeting on floors, walls and ceiling where applicable, in conjunction with a decontamination unit. Any non-movable objects that remain in the work area shall be sealed with two layers of 6-mil polyethylene sheeting.

Throughout the remediation activities, notice signs and barrier tape will be utilized to restrict unauthorized access to the work areas. The signs shall be at least eight (8) inches by ten (10) inches in size and shall bear the word, "NOTICE: Mold remediation project in progress" in black on a yellow background. The text of the signs must be legible from a distance ten (10) feet.

The containment will be placed under negative pressure during the remediation. Air scrubber(s) shall be operated continuously after the remediation until the containment achieves clearance. Dehumidifiers will be utilized as needed to maintain the relative humidity below 60 percent.

  
\_\_\_\_\_  
Darren G. Bowden

No person shall remove or dismantle any walk-in containment structures or materials from a project site prior to receipt by the license mold remediation contractor or remediation company overseeing the project of a written notice from a licensed mold assessment consultant that the project has achieved clearance.

### III. Removal

The Contractor will perform the removal and disposal in accordance with current local, state and federal regulations. The materials should be HEPA vacuumed and disinfected with Foster's 40/80, a hospital grade quaternary ammonium chloride disinfectant, or equivalent.

The fungal growth will be removed in conjunction with the sheetrock walls. The work area will be encapsulated with Foster's 40/20 or equivalent.

All porous and non-porous surfaces within the work area and areas adjacent to the work area should be cleaned by simple wet wipe techniques and/or HEPA vacuum. Individuals with known allergies to fungal incitants should not be permitted to work on the project.

### IV. Disposal

It is the Consultant's understanding that no special disposal requirements apply to mold waste materials and the waste can be disposed of as general construction waste. However, it is the responsibility of the Contractor to determine current waste handling, transportation, and disposal requirements as it pertains to current local, state and federal regulations. Waste will be containerized (e.g., bagged and goose-necked) inside containment and thoroughly cleaned before leaving the work area. The containers will be transported to the waste container without spillage.

### V. Clearance

Apex will conduct a post-remediation assessment using visual, procedural and analytical methods. The post remediation assessment shall be conducted while the containment is in place. As part of the post-remediation assessment, Apex will determine if the area is free from all visible mold and wood rot and if the remediation has been completed in accordance with this protocol and the contractor's work plan.

Clearance samples will be conducted using slit impaction air sampling cassettes. The collection media for these devices consist of a coverslip coated with a sticky transparent "acrylic" substrate. Containment clearance will require obtaining air monitoring results indicating that airborne mold spore concentrations inside the containment are similar to those obtained outside the structure at the time the sampling was performed.

Apex is not a moisture intrusion assessment company. The client will retain responsibility for moisture intrusion remediation. The Client is encouraged to investigate the moisture intrusion and solicit a moisture intrusion remediation company to remediate the underlying cause of mold.



---

Darren G. Bowden

## VI. Notification

The contractor is responsible for proper notification, if required, to all regulatory agencies having authority over proposed work including but not limited to city, county, state, and federal agencies. The TDSHS will be notified five (5) working days prior to the initiation of remediation activities on projects where more than twenty-five contiguous square feet of mold growth is scheduled for removal.

## VII. Applicable Publications

The publications listed below form a part of this specification to the extent referenced. The publications are referenced in text by basic designation only and may not be fully conclusive. The Contractor shall be aware and compliant with all current regulations.

- A. Texas Department of State Health Services (TDSHS), Division of Occupational Health, Texas Mold Remediation Rules (TMARR), Texas Civil Statutes.
- B. National Institute for Occupational Safety and Health (NIOSH): "Respiratory Protection...A Guide for the Employee."
- C. American National Standards Institute (ANSI): Z86.1-197<sup>3</sup>...Commodity Specification for Air
- D. Code of Federal Regulations (CFR):
  - 1. 29 CFR 1910.1001, Occupational Safety and Health Act (OSHA)
  - 2. 20 CFR 1910.20, Subpart C, General Safety and Health Provisions

## VIII. Construction Notes

The Contractor will be responsible for routing water and electricity to the work areas. Water will be used only as needed to limit dust-related emissions and perform decontamination activities. No materials will be saturated with water during any part of this remediation project.

HVAC registers and ductwork present in the work areas are to be wiped and sealed by the Contractor prior to the initiation of remediation activities. The HVAC system is to be shutdown prior to and during the work.


The Contractor shall provide all items, articles, materials, operations or methods listed or mentioned including all labor, materials, equipment, applicable permits and notifications and all incidentals necessary and required for their use to complete the work specified.

Fire extinguishers shall be installed in the Equipment Room and Clean room or inside and outside of the containment if there is no decontamination unit specified.

The Contractor shall conduct a safety meeting for contractor's employees with emphasis on operation of fire extinguishers and emergency exits in case of fire.

Contractor's employees shall not wear protective clothing and equipment in areas of the building outside the work area.

The Consultant will not be responsible for site safety, or the ways and means utilized by the Contractor.

  
\_\_\_\_\_  
Darren G. Bowden

Neither the Contractor nor the Consultant is responsible for identification or the elimination of moisture intrusion.

Ground-fault circuit interrupter (GFCI) units shall be installed on all electrical circuits used within the regulated areas(s).

The Owner or Owner's representative has the authority to stop the remediation work at any time he/she determines that conditions are not within the specified mold remediation protocol and applicable regulations. The work stoppage shall continue until conditions have been corrected and measures have been taken to the satisfaction of the owner. Standby time required to resolve violations shall be at the Contractor's expense.

**END OF SECTION**



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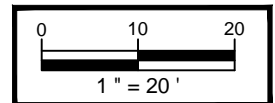
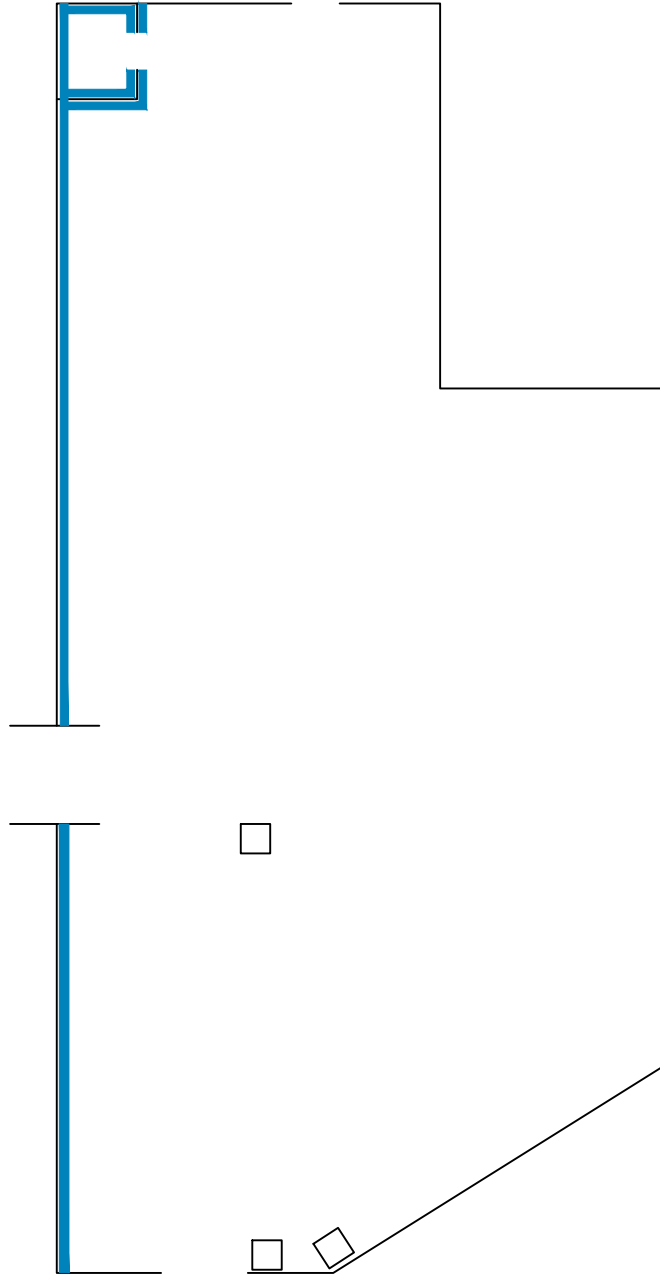
Darren G. Bowden

**LEGEND:**

 Fungal Growth Location

**NOTE:**

Fungal Growth Locations and Drawing Scale are Approximate.



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**FIGURE 1**

**Fungal Growth Location Map  
Suite 105**

Project No. 725010727079

## **APPENDIX D**

### Remediation Work Plan

# BIO-REMEDIATION WORK PLAN

## Project Information:

Lewisville ISD  
Shopping Center Adjacent to Bolin Administration Center  
Suite #105  
1565 W. Main Street  
Lewisville, Texas 75067

## Prepared By:

ARC Abatement, Inc.  
2710 National Place  
Garland, TX 75041

Mold Company License #RCO-0163  
Expires: 03-09-19  
Mold Remediation Contractor License #MRC-0356

## Project Consultant:

Mr. Darren Bowden  
Apex TITAN, Inc.  
12100 Ford Road, Suite 401  
Dallas, Texas 75234  
Mold Consultant License # MAC-0321

May 17, 2017



James B. Metcalf

Mold Contractor License #MRC - 1243

Expires: 12-12-17

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**MOLD REMEDIATION WORK PLAN**

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**REMEDICATION AREAS AND ESTIMATED QUANTITIES**

**REMEDICATION METHODS**

**PRODUCTS**

**CONTAINMENT PROCEDURES**

**CLEARANCE PROCEDURES AND CRITERIA**

Contractors Initials:





# MOLD REMEDIATION WORK PLAN

The following Mold Remediation Work Plan follows the requirements set forth in 25 TAC 295.321 (e). The following Mold Remediation Protocol is based on the following Mold Protocol:

Prepared on: May 17, 2017  
Performed by: Darren Bowden  
License #: MAC 0321

## APPLICABLE RULES AND GUIDELINES FOR REMEDIATION

The following documents were reviewed prior to developing this Work Plan. Some of these documents regulate the remediation process while others provide general guidance for the remediation process:

- Texas Department of State Health Services, Indoor Air Quality Division, ***Texas Mold Assessment and Remediation Rules, 25 TAC 295.301 – 338***, May 2004.
- Occupational Safety and Health Administration, ***Respiratory Protection, 29 CFR Parts 1910.134***, January 1998.
- U.S. Department of Labor, Occupational Health and Safety Administration, ***A Brief Guide to Mold in the Workplace***.
- Environmental Protection Agency, Office of Air and Radiation, Indoor Environments Division. ***Mold Remediation in Schools and Commercial Buildings***. March 2001. EPA 402-K-01-001.
- New York City Department of Health, Bureau of Environmental and Occupational Disease Epidemiology. ***Guidelines on Assessment and Remediation of Fungi in Indoor Environments***. November 20, 2000.
- Institute of Inspection, Cleaning and Restoration, ***IICRC S520, Standard and Reference Guide for Professional Mold Remediation***, December 2003.
- National Air Duct Cleaners Association, ***Assessment, Cleaning, and Restoration of HVAC Systems***, 2001.
- OSHA Respiratory Protection Standard, 29 CFR Parts 1910 and 1926.
- Current industry best practices and guidelines.

## REMEDIATION AREAS AND ESTIMATED QUANTITIES

The contaminated areas to be addressed by this Mold Remediation Work include the following area(s) located in Shopping Center Adjacent to Bolin Administration Center, Suite #105. Removal and disposal of Fungal Growth Associated with sheetrock Walls located on the west side of the Suite #105.

### Remediation Area Approximate Square Footage Specific Location

Removal and disposal of approximately 500 sf of Mold contaminated sheetrock walls, disinfectant of substrate behind removed sheetrock within enclosed containment, negative air machines and scrubbing of the work area.

Contractors Initials:



## REMEDIATION METHODS

### DESCRIPTION OF THE WORK

PROJECT DESIGN FOR:

#### **Wall System Mold Remediation**

1. Install critical barriers constructed of two layer of 6-mil plastic sheeting (to separate the work area from adjacent areas and to any penetrations) and seal all HVAC ducts with a minimum of one layer of 6-mil plastic sheeting. Install critical barriers so they remain sealed for the duration of the project. The contractor shall establish a worker decontamination enclosure equipped with a 2-stage dry decontamination unit. All bags, equipment, etc. shall exit the enclosure shall be wet-wiped and cleaned.
2. Contractor shall use appropriate respirator and clothing (Ty-vek suit) as required when in the work area. When leaving each individual work area, contractor shall remove respirator and Ty-vek suit may remain on but must be HEPA-vacuumed or the suit removed and properly disposed of prior to exiting the work area. These procedures should be followed when mold/mildew damaged wall sheathing and insulation materials are identified on the interior faces of the wall cavity system. Respiratory protection shall be, at a minimum, dual cartridge air purifying respirators equipped with HEPA filters. The respiratory assessment to determine the required protection is the responsibility of the contractor.
3. Install air scrubbers (negative air filtration units) within the work areas as required.
4. All water damaged or mold/mildew on sheetrock in the work area, should be removed and disposed of beyond any visible water or mold/mildew damage on remaining surfaces. Any remaining water mold/mildew damaged sheetrock walls in the work area should be removed in locations identified in Apex TITANS visual assessment Remediation will commence on May 25, 2017 and Complete on May 27, 2017.

Contractors Initials:



5. All Mold Contaminated residue will wipe down & cleaned per protocol within the inside designated areas of Suite #105.
6. HEPA vacuum clean all exposed accumulations of dust and debris.
7. Manually clean the exposed surfaces and associated items (chairs, desks, books, cabinets, etc...) will be sanitized with a biocide (EPA approved for intended use).
8. Following the initial manual cleaning, treat all surfaces within the work area with a biocide (EPA approved for intended use).
9. All materials removed from the building to be disposed of shall be placed in plastic bags; the bags shall be wiped with a biocide and removed from the facility for disposal. Covered buggies will be required to be used to remove bagged materials from the remediation work area.
10. In areas where water/mold damage is evident on the surfaces will be HEPA Vacuum clean and sanitize and treat the affected area.
11. The remediation contractor should place the bagged waste in a covered, lockable container until removed from the site.
12. The remediation contractor and Apex TITAN shall review and verify that to the best of their knowledge the water mold damaged materials have been removed from the specified work areas and the affected areas have been sanitized.
13. Following removal of the remaining water/mold damaged materials, and debris, all areas in the remediation work areas including walls, floors, etc shall be HEPA-vacuumed and cleaned (wiped, sprayed, etc.) with a biocide (EPA approved for intended use).
14. All work will be conducted in accordance with federal, state and local regulatory requirements and guidelines. Any items not covered in the remediation protocol should be brought to the attention of Apex TITAN promptly.
15. Following the completion of the remediation work, Apex TITAN will perform airborne microbial (Air-O-Cell) sampling in the work area for post remediation air testing.

Contractors Initials: \_\_\_\_\_

A handwritten signature in blue ink, appearing to be 'JBM', is written over a horizontal line.

16. A letter by an officer of the remediation company that all required permits, licenses, registrations and mold remediation training, respiratory fit testing and medical examination have been completed and available on-site. The letter shall include:

- A list of each employee who will be on-site. The list must give name and social security number.
- Date and type of all training for each employee on-site.
- Date of last fit test for each employee on-site.
- Date of last medical examination for each employee on-site.
- Texas Department of State Health Services (TDSHS) license or registration number for each employee on-site.

**NOTE:** All documentation for the above listed items shall be available for review upon request by the Owner or his representative.

- Original executed Certificates of Worker's Release Forms.
- An executed Notification of Mold Remediation submitted to the TDSHS

## PRODUCTS

The following products shall be utilized in the remediation project.

- Anti-Microbial Coating: Foster Products Corporation's "Foster 40-20" and "Foster 40-80" fungicidal protective coating, Porter Paints' "Porta-Sept" anti-microbial wall coating, Aegis Environmental's "Aegis Antimicrobial" or approved equivalent. Anti-microbial coating shall be applied according to manufacturer's instructions. Anti-microbial coating shall be allowed to thoroughly dry after application prior to covering.
- Biocide: An Environmental Protection Agency (EPA) registered biocide, such as Foster's, or approved equivalent. Biocide treatment shall be mixed and applied according to manufacture's instructions. After biocide treatment, surfaces shall be allowed to thoroughly dry.
- Cleaning Solution: Trisodium phosphate cleaning solution, such as Sentinel 805 (Sentinel Chemical Company) or approved equivalent. Cleaning solution shall be mixed and applied according to manufacturer's instructions

Contractors Initials: \_\_\_\_\_



## POST REMEDIATION CLEARANCE TESTING

Apex TITAN will conduct a post-remediation assessment using visual, procedural and analytical methods. The post remediation assessment shall be conducted while the containment is in place. As part of the post-remediation assessment, Apex TITAN will determine if the area is free from all visible debris and wood rot and if the remediation has been completed in accordance with this protocol and the contractor's work plan. Clearance samples will be conducted using slit impaction air sampling cassettes. The collection media for these devices consist of a cover slip coated with a sticky transparent "acrylic" substrate. Containment clearance will require obtaining air monitoring results indicating that airborne mold spore concentrations inside the containment are no more than 40% of those obtained outside the structure at the time the sampling was performed. In addition, non-target airborne mold spore concentrations must be similar inside the containment than those obtained outside the structure at the time the sampling was performed. Target molds should be individually less than or equal to outside levels. However, no levels of *Stachybotrys* will be accepted. The target list of molds would generally include, but are not limited to, *Aspergillus*, *Penicillium*, *Aureobasidium*, *Chaetomium*, *Fusarium*, *Trichoderma*, *Stachybotrys*, and *Ulocadium*. Apex TITAN is not a moisture intrusion assessment company. The client will retain responsibility for moisture intrusion remediation. The Client is encouraged to investigate the moisture intrusion and solicit a moisture intrusion remediation company to remediate the underlying cause of mold.

Contractors Initials: \_\_\_\_\_





# TEXAS DEPARTMENT OF STATE HEALTH SERVICES

*Be it known that*

## **ARC ABATEMENT INC**

is licensed to perform as a

### **Mold Remediation Company**

*in the State of Texas and is hereby governed by the rights, privileges, and responsibilities set forth in Title 25, Texas Administrative Code, Chapter 295, relating to Texas Mold Assessment and Remediation Rules, as long as this license is not suspended or revoked.*

A handwritten signature in black ink, appearing to read "John Hellerstedt".

John Hellerstedt, M.D.  
Commissioner of Health

License Number: RCO0163

Expiration Date: 3/9/2019

Control Number: 7405

(Void After Expiration Date)

VOID IF ALTERED      NON-TRANSFERABLE

## **APPENDIX E**

### Analytical Results



# IAQ Mold Report

## Summary

DSHS License No.: LAB0117

AIHA EMPAT ID: 102577

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

<b>Client :</b> Apex Titan, Inc. - Dallas	<b>Lab Job No. :</b> 17F-06146
<b>Project :</b> Not Provided	<b>Report Date :</b> 05/26/2017 12:06 PM
<b>Project # :</b> 72501072707679	<b>Sample Date:</b> 05/26/2017
<b>Sample Type:</b> Spore Trap, Non-cultured	<b>Spore Trap Type:</b> Zefon - Air-O-Cell
<b>Test Method:</b> Mold: ASTM D7391-09 - Standard Profile	Page 1 of 2

On 5/26/2017, four (4) samples were submitted by Clint Jech of Apex Titan, Inc. - Dallas (located at 12100 Ford. Rd., Suite 401, Farmers Branch, TX 75234) for Spore Trap, Non-cultured mold analysis. This report consists of three sections; a summary section, a data detail section, and an analytical notes section.

Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
1	150	Exterior, South * See Analytical Notes report for further details	Cladosporium	3473 57%
			Basidiospores	2018 33%
			Aspergillus / Penicillium	187 3%
			Ascospores	120 2%
			Hyphal / Spore Fragments - Dematiaceous	80 1%
			Myxomycete / Rust / Smut	53 <1%
			Alternaria	53 <1%
			Paecilomyces	40 <1%
			Fusarium	33 <1%
			Drechslera / Bipolaris group	13 <1%
			Cercospora	7 <1%
			Epicoccum	7 <1%
			Total:	6084 100%
			2	150
Basidiospores	327 12%			
Ascospores	160 6%			
Myxomycete / Rust / Smut	133 5%			
Aspergillus / Penicillium	120 4%			
Hyphal / Spore Fragments - Dematiaceous	113 4%			
Alternaria	107 4%			
Chaetomium	40 1%			
Drechslera / Bipolaris group	27 <1%			
Epicoccum	20 <1%			
Cercospora	7 <1%			
Total:	2755 100%			





# IAQ Mold Report

## Summary

DSHS License No.: LAB0117

AIHA EMPAT ID: 102577

2051 Valley View Lane

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

**Client :** Apex Titan, Inc. - Dallas**Lab Job No. :** 17F-06146**Project :** Not Provided**Report Date :** 05/26/2017 12:06 PM**Project # :** 72501072707679**Sample Date:** 05/26/2017**Sample Type:** Spore Trap, Non-cultured**Spore Trap Type:** Zefon - Air-O-Cell**Test Method:** Mold: ASTM D7391-09 - Standard Profile

Page 2 of 2

On 5/26/2017, four (4) samples were submitted by Clint Jech of Apex Titan, Inc. - Dallas (located at 12100 Ford. Rd., Suite 401, Farmers Branch, TX 75234) for Spore Trap, Non-cultured mold analysis. This report consists of three sections; a summary section, a data detail section, and an analytical notes section.

Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
3	150	Inside Containment North	Aspergillus / Penicillium	153 82%
			Hyphal / Spore Fragments - Dematiaceous	20 11%
			Myxomycete / Rust / Smut	7 4%
			Cladosporium	7 4%
			Total:	187 100%
4	150	Inside Containment South	Cladosporium	33 28%
			Aspergillus / Penicillium	33 28%
			Chaetomium	20 17%
			Basidiospores	20 17%
			Hyphal / Spore Fragments - Dematiaceous	13 11%
			Total:	119 100%

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 :

Lab Director : Bruce Crabb

Approved Signatory :

Thank you for choosing Moody Labs

SMLMS v12.16



# IAQ Mold Report

## Data Detail

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

DSHS License No.: LAB0117  
AIHA EMPAT ID: 102577

<b>Client :</b> Apex Titan, Inc. - Dallas	<b>Lab Job No. :</b> 17F-06146
<b>Project :</b> Not Provided	<b>Report Date :</b> 05/26/2017 12:06 PM
<b>Project # :</b> 72501072707679	<b>Sample Date:</b> 05/26/2017
<b>Sample Type:</b> Spore Trap, Non-cultured	<b>Spore Trap Type:</b> Zefon - Air-O-Cell
<b>Test Method:</b> 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, South					Exterior, North					Inside Containment North				
Media Expires On:	May 2018					May 2018					May 2018				
Notes Included:	See Analytical Notes														
Volume:	150					150					150				
	raw ct.	RL	spores/m <sup>3</sup>		Sig Fig	raw ct.	RL	spores/m <sup>3</sup>		Sig Fig	raw ct.	RL	spores/m <sup>3</sup>		Sig Fig
Agaricales group															
Alternaria	8	7	53	<1%	50	16	7	107	4%	110					
Ascospores	18	7	120	2%	120	24	7	160	6%	160					
Aspergillus / Penicillium	28	7	187	3%	190	18	7	120	4%	120	23	7	153	82%	150
Basidiospores	111	18	2018	33%	2000	49	7	327	12%	330					
Cercospora	1	7	7	<1%	7	1	7	7	<1%	7					
Chaetomium						6	7	40	1%	40					
Cladosporium	191	18	3473	57%	3500	255	7	1701	62%	1700	1	7	7	4%	7
Coprinus group															
Curvularia															
Diatrypaceae															
Drechslera / Bipolaris group	2	7	13	<1%	10	4	7	27	<1%	30					
Epicoccum	1	7	7	<1%	7	3	7	20	<1%	20					
Fusarium	5	7	33	<1%	30										
Ganoderma															
Hyphal / Spore Fragments - Dematiace	12	7	80	1%	80	17	7	113	4%	110	3	7	20	11%	20
Hyphal / Spore Fragments - Hyaline															
Memnoniella															
Myxomycete / Rust / Smut	8	7	53	<1%	50	20	7	133	5%	130	1	7	7	4%	7
Nigrospora															
Oidium															
Paecilomyces	6	7	40	<1%	40										
Periconia															
Peronospora															
Pestalotia / Pestalotiopsis															
Pithomyces															
Pyricularia															
Scopulariopsis															
Spegazzinia															
Stachybotrys															
Tetraploa															
Torula															
Ulocladium / Stemphylium															
Zygophiala															
<b>TOTALS</b>	<b>391</b>		<b>6084</b>	<b>100%</b>	<b>6100</b>	<b>413</b>		<b>2755</b>	<b>100%</b>	<b>2800</b>	<b>28</b>		<b>187</b>	<b>100%</b>	<b>190</b>
Analyst	Nina Mims					Nina Mims					Nina Mims				
Analysis Date	5/26/2017					5/26/2017					5/26/2017				
Debris Rating	1					4					1				
Debris Composition															



# IAQ Mold Report

## Data Detail

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 :** Not Provided

**Project # :** 72501072707679

**Sample Type:** Spore Trap, Non-cultured

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

**Lab Job No. :** 17F-06146

**Report Date :** 05/26/2017 12:06 PM

**Sample Date:** 05/26/2017

**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.

Fibers	0/5	1/5	1/5
Inorganic/Other	1/5	4/5	1/5
Insect Parts	1/5	1/5	0/5
Pollen	0/5	1/5	0/5
Skin/Dander	0/5	0/5	1/5



# IAQ Mold Report

## Data Detail

DSHS License No.: LAB0117  
AIHA EMPAT ID: 102577

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

<b>Client :</b> Apex Titan, Inc. - Dallas	<b>Lab Job No. :</b> 17F-06146
<b>Project :</b> Not Provided	<b>Report Date :</b> 05/26/2017 12:06 PM
<b>Project # :</b> 72501072707679	<b>Sample Date:</b> 05/26/2017
<b>Sample Type:</b> Spore Trap, Non-cultured	<b>Spore Trap Type:</b> Zefon - Air-O-Cell
<b>Test Method:</b> 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.

<b>Sample ID:</b>	<b>4</b>																			
Location:	Inside Containment South																			
Media Expires On:	May 2018																			
Notes Included:																				
Volume:	150																			
	raw ct.	RL	spores/m <sup>3</sup>		Sig Fig															
Agaricales group																				
Alternaria																				
Ascospores																				
Aspergillus / Penicillium	5	7	33	28%	30															
Basidiospores	3	7	20	17%	20															
Cercospora																				
Chaetomium	3	7	20	17%	20															
Cladosporium	5	7	33	28%	30															
Coprinus group																				
Curvularia																				
Diatrypaceae																				
Drechslera / Bipolaris group																				
Epicoccum																				
Fusarium																				
Ganoderma																				
Hyphal / Spore Fragments - Dematiace	2	7	13	11%	10															
Hyphal / Spore Fragments - Hyaline																				
Memnoniella																				
Myxomycete / Rust / Smut																				
Nigrospora																				
Oidium																				
Paecilomyces																				
Periconia																				
Peronospora																				
Pestalotia / Pestalotiopsis																				
Pithomyces																				
Pyricularia																				
Scopulariopsis																				
Spegazzinia																				
Stachybotrys																				
Tetraploa																				
Torula																				
Ulocladium / Stemphylium																				
Zygophiala																				
<b>TOTALS</b>	<b>18</b>		<b>119</b>	<b>100%</b>	<b>120</b>															
Analyst	Nina Mims																			
Analysis Date	5/26/2017																			
Debris Rating	1																			
Debris Composition																				



# IAQ Mold Report

## Data Detail

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 :** Not Provided

**Project # :** 72501072707679

**Sample Type:** Spore Trap, Non-cultured

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

**Lab Job No. :** 17F-06146

**Report Date :** 05/26/2017 12:06 PM

**Sample Date:** 05/26/2017

**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.

Fibers	1/5		
Inorganic/Other	1/5		
Insect Parts	0/5		
Pollen	0/5		
Skin/Dander	1/5		

End of Data Detail section  
17F-06146

SMLMS v12.16



# IAQ Mold Report

## 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-06146

**Project :** Not Provided

**Report Date :** 05/26/2017 12:06 PM

**Project # :** 72501072707679

**Sample Date :** 05/26/2017

**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.

### Samples Analyzed

Sample No 1 : Exterior, South

Notes: Please note: the minimum detection limit for Cladosporium is 18 spores / cubic meter. When comparing results to other samples, use calculated results, not raw numbers.  
Please note: the minimum detection limit for Basidiospores is 18 spores / cubic meter. When comparing results to other samples, use calculated results, not raw numbers.

### Field Blanks

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

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

### Methods

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

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

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 :** Not Provided

**Project # :** 72501072707679

**Sample Type:** Spore Trap, Non-cultured

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

**Lab Job No. :** 17F-06146

**Report Date :** 05/26/2017 12:06 PM

**Sample Date :** 05/26/2017

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

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-06146

# IAQ Mold Report

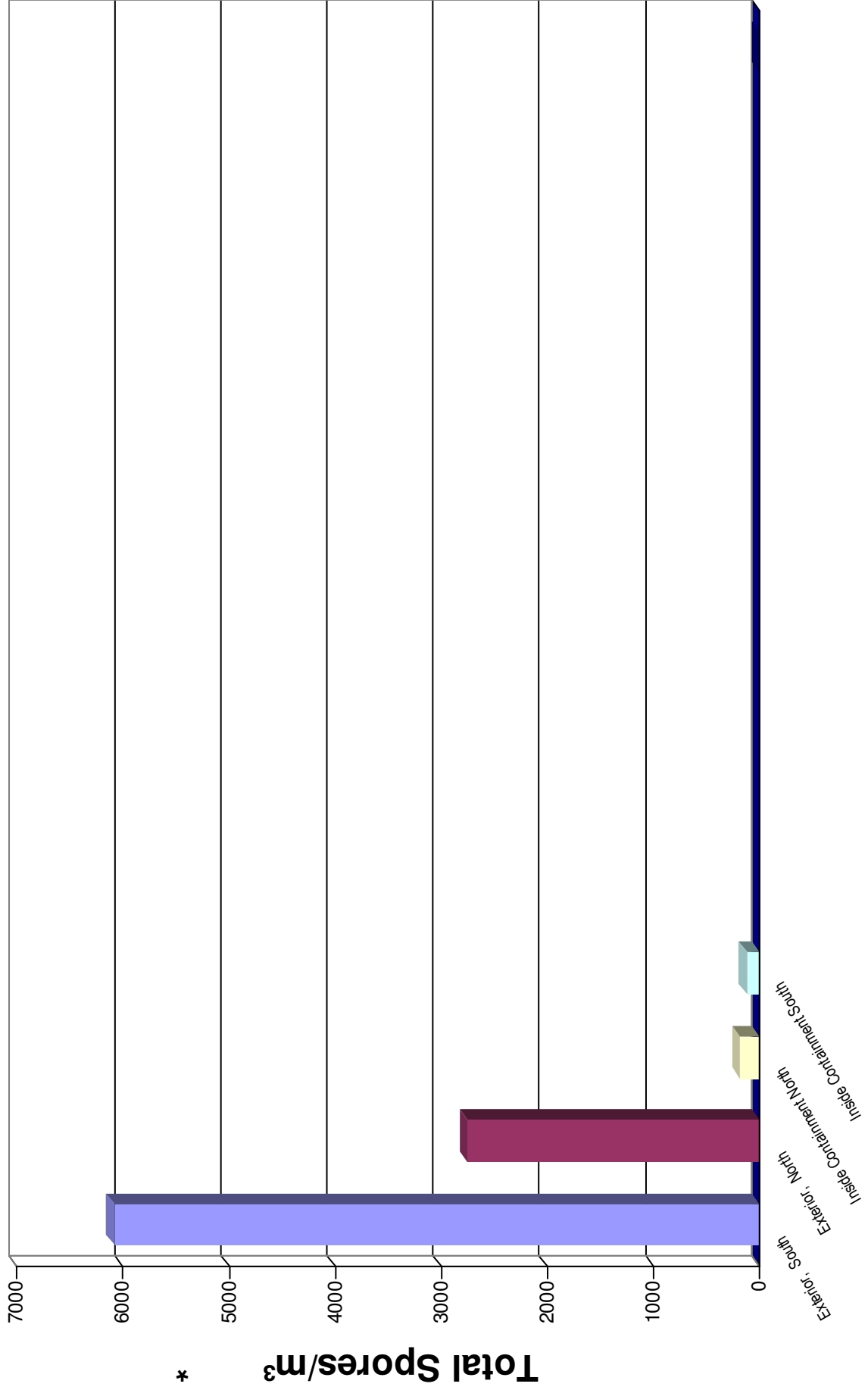
## Supplemental Overview

DSHS License No.: LAB0117  
AIHA EMPAT ID: 102577

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

Lab Job No. 17F-06146  
Report Date 05/26/2017 12:06 PM  
Sample Date : 05/26/2017

Client : Apex Titan, Inc. - Dallas  
Project : Not Provided  
Project # : 72501072707679



\*





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

# IAQ Mold Report

## Supplemental Overview

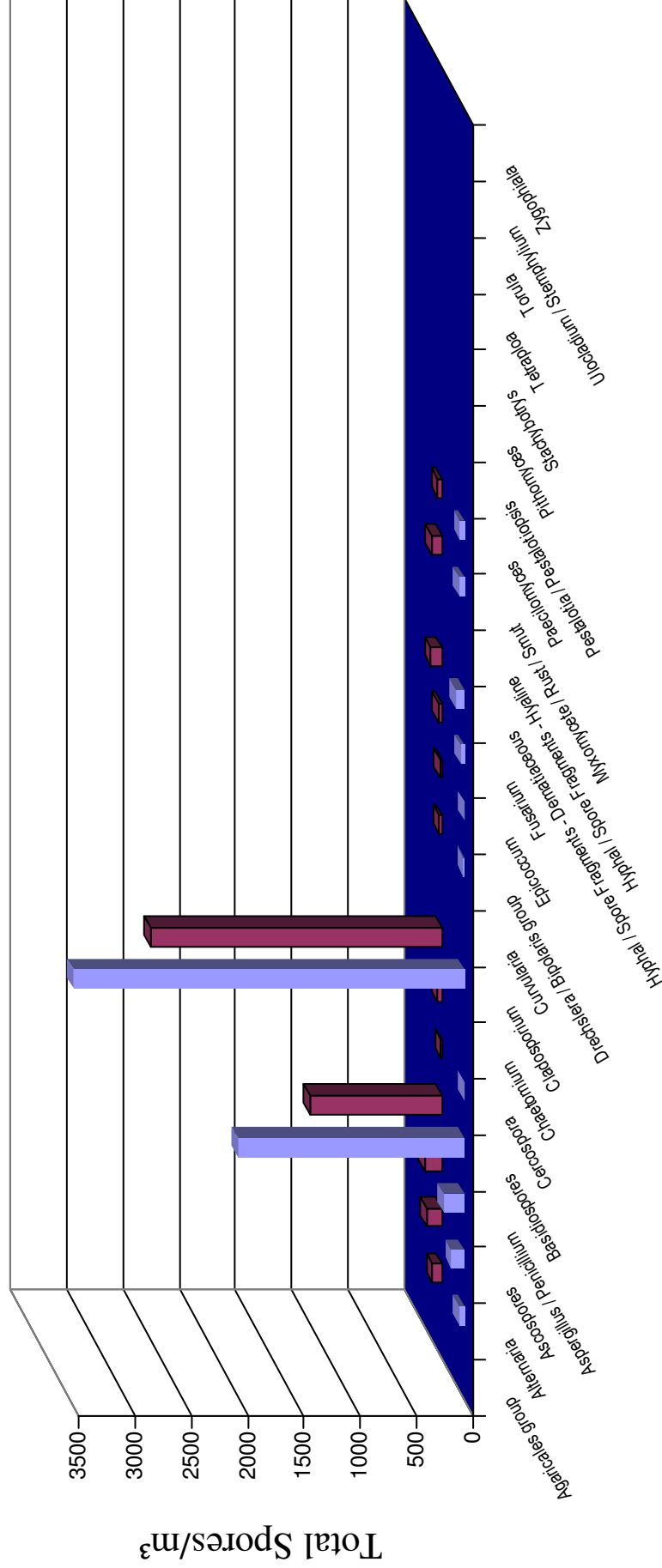
DSHS License No.: LAB0117  
AIHA EMPAT ID: 102577

**Client :** Apex Titan, Inc. - Dallas  
**Project :** Not Provided  
**Project # :** 72501072707679

**Lab Job No.** 17F-06146  
**Report Date** 05/26/2017 12:06 PM  
**Sample Date :** 05/26/2017

Exterior, South

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, South, Exterior, North



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

# IAQ Mold Report

## Supplemental Overview

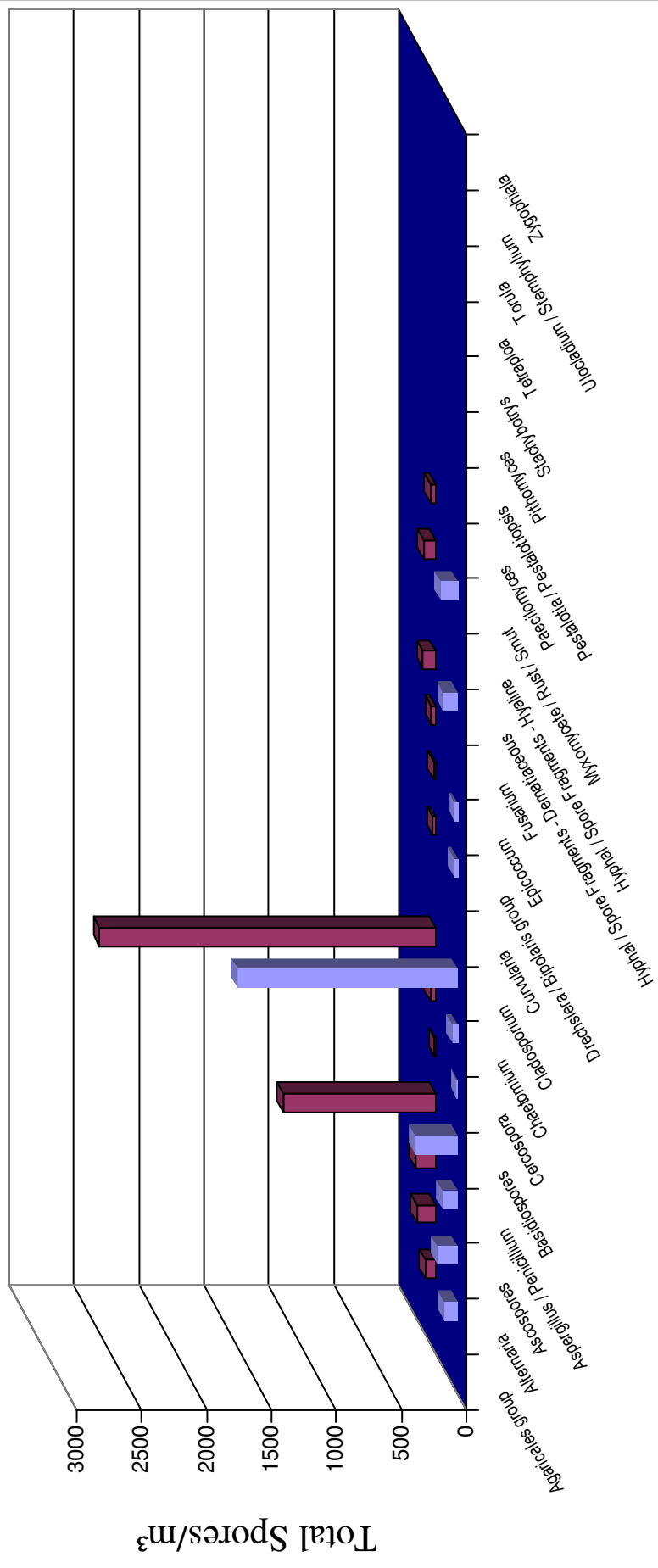
DSHS License No.: LAB0117  
AIHA EMPAT ID: 102577

**Client :** Apex Titan, Inc. - Dallas  
**Project :** Not Provided  
**Project # :** 72501072707679

**Lab Job No.** 17F-06146  
**Report Date** 05/26/2017 12:06 PM  
**Sample Date :** 05/26/2017

Exterior, North

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, South, Exterior, North



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

# IAQ Mold Report

## Supplemental Overview

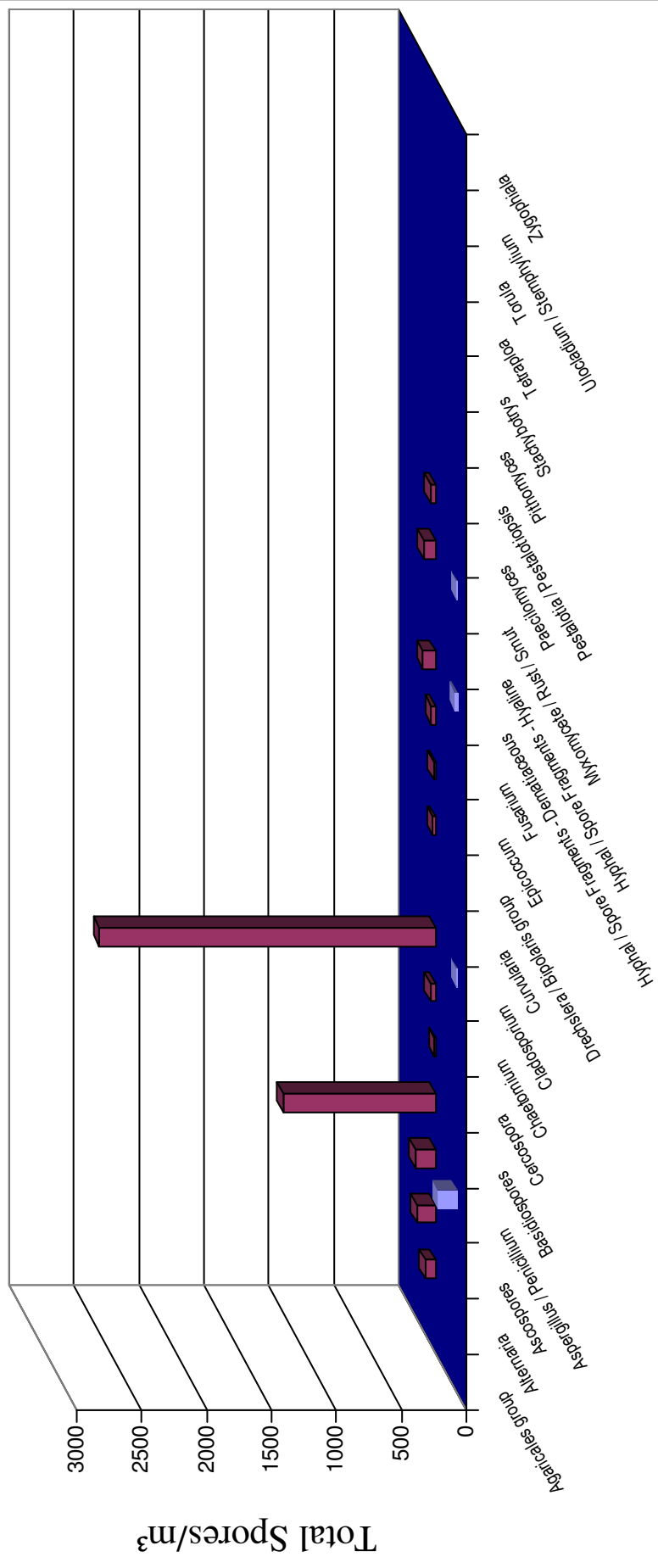
DSHS License No.: LAB0117  
AIHA EMPAT ID: 102577

**Client :** Apex Titan, Inc. - Dallas  
**Project :** Not Provided  
**Project # :** 72501072707679

**Lab Job No.** 17F-06146  
**Report Date** 05/26/2017 12:06 PM  
**Sample Date :** 05/26/2017

Inside Containment North

■ Sample ■ Average Reference 1 □ Average Reference 2



Average Reference 1 = Exterior, South, Exterior, North

# IAQ Mold Report

## Supplemental Overview

DSHS License No.: LAB0117  
AIHA EMPAT ID: 102577



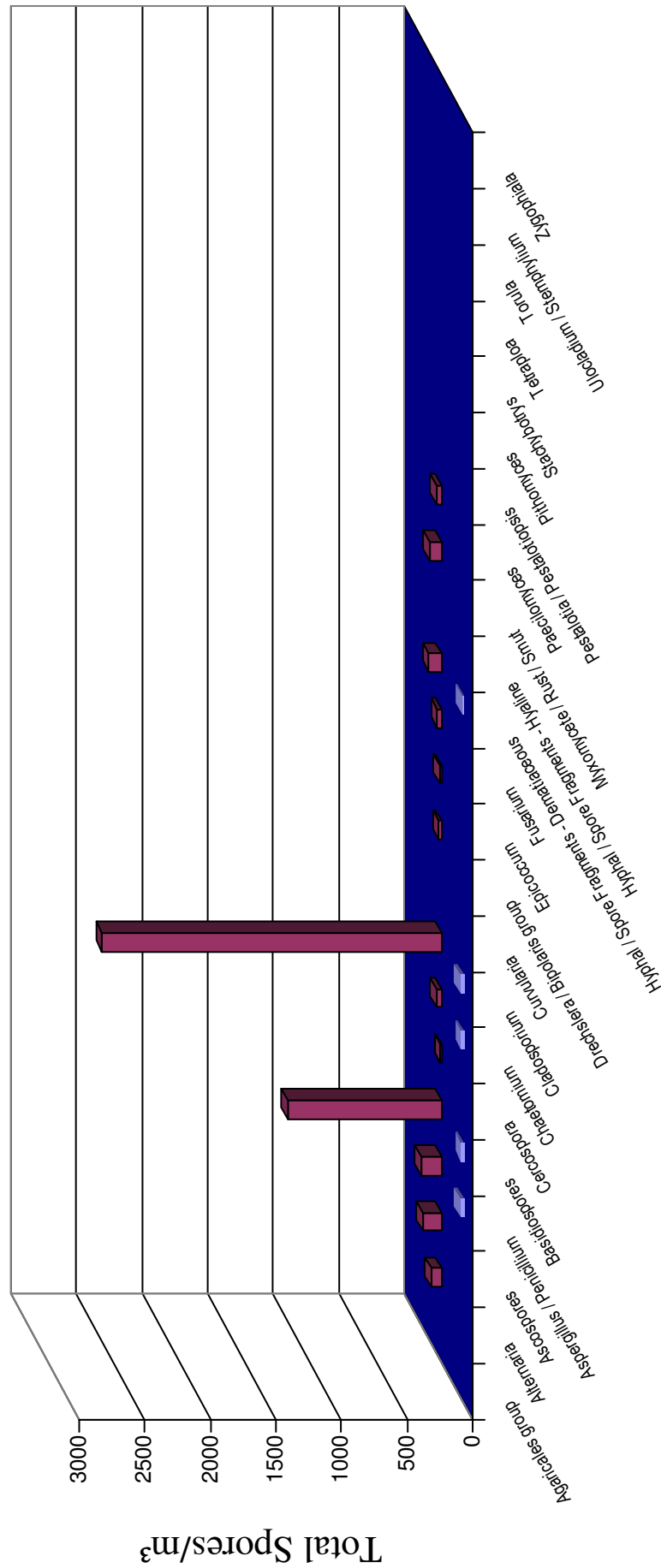
2051 Valley View Lane  
Farmers Branch, TX 75234 Phone: (972) 241-8460

**Client :** Apex Titan, Inc. - Dallas  
**Project :** Not Provided  
**Project # :** 72501072707679

**Lab Job No.** 17F-06146  
**Report Date** 05/26/2017 12:06 PM  
**Sample Date :** 05/26/2017

Inside Containment South

Sample ■ Average Reference 1 ■ Average Reference 2



Average Reference 1 = Exterior, South, Exterior, North



Chain of Custody

Lab Job # 17F-060146 AOC 4
Lab Job #
Lab Job #

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

Page 1 of

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

# of Samples: 4

Submitter's Company:

Sample Date: 5/26/2017

Submitter's Name: Clinton S. Jech

Project #: 22601072707479

Project:

Phone #:

Contact Information: Name: Clint Jech

Mobile #: (972) 989-1031

E-mail Results to: Clint/Darren/Veronica

Fax #:

Invoice Address: Veronica

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:

Table with 4 columns: Sample #, Sample Description, Vol. / Area (if applicable), Location / Notes. Contains 4 rows of data with handwritten entries.

Released By: [Signature] Date / Time: 5/26/2017 09:57
Received By: [Signature] Date / Time: 5-26-17 9:57 AM

## **APPENDIS F**

Moisture Intrusion Remediation Statement and MDR-1 Form

**Veronica Ewald**

---

**From:** Siddall, Paul <siddallp@lisd.net>  
**Sent:** Friday, June 02, 2017 6:46 AM  
**To:** Veronica Ewald  
**Subject:** RE: Bolin # 105

Veronica...

Here is the Statement:

The cause of the mold was due to water used in the Animal Shelter Animal baths. This was repaired by removing the wall and fill in floor. Therefore, I certify with reasonable certainty that the underlying cause of mold has been remediated.

If you need anything else, let me know.  
Thanks,  
Paul

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

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**From:** Veronica Ewald [mailto:VEwald@apexcos.com]  
**Sent:** Tuesday, May 30, 2017 9:02 AM  
**To:** Siddall, Paul  
**Subject:** Bolin # 105

Paul,

For Apex to complete the mold remediation report, the State of Texas requires the below statement to be completed. You can copy the statement, filling in the blanks and send back to us via email on either company letterhead or an email statement. Please contact us with any questions.

Statement:

The cause of the mold was due to \_\_\_\_\_. This was repaired by doing \_\_\_\_\_. Therefore, I certify with reasonable certainty that the underlying cause of mold has been remediated.

	<p><b>Veronica Ewald</b> Assistant Project Manager <b>Apex TITAN, Inc.</b> 12100 Ford Road, Suite 401 Dallas, TX 75234 O) 469-365-1110 M) 972-762-9765</p> <p> Add me to your contact list!</p>
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## CERTIFICATE OF MOLD DAMAGE REMEDIATION

Certificate Number 17-03-045 Date of Issuance May 30, 2017

Name Lewisville Independent School District-ATT: Mr. Paul Siddall

Mailing Address 340 Lake Haven

City Lewisville State Texas Zip 75057

### Property Description:

Name/Description Bolin Administrative Center Adjacent Shopping Strip Mall Suite 105


Number 1565 Street West Main Street Lot N/A Block Unknown

Addition or Tract Suite #105 City Lewisville County Denton

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### Mold Assessment Consultant License Holder Certification

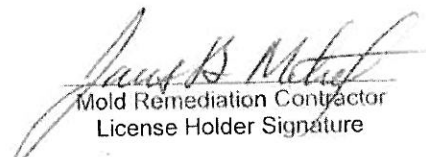
- I hereby certify that based on visual, procedural and analytical evaluation, the mold contamination identified for this project has been remediated as outlined in the mold management plan or remediation protocol.
- I further certify with reasonable certainty that the underlying cause or causes of the mold that were identified for this project in the mold management plan or remediation protocol have been remediated. A copy of the written evaluation that forms the basis for my certification has been provided to the person named in this certificate.

 Mold Assessment Consultant License Holder Signature	<u>MAC0321, 2/15/2018</u> Department of State Health Services Mold Assessment Consultant License No. and Expiration Date	<u>5/26/2017</u> Date
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### Mold Remediation Contractor License Holder Certification

- I hereby certify that I completed mold remediation on this project and will provide the mold remediation certificate to the property owner no later than the 10<sup>th</sup> day after the date of completion.

 Mold Remediation Contractor License Holder Signature	<u>MRC-1243</u> Department of State Health Services Mold Remediation Contractor License No. and Expiration Date	<u>May 26, 2017</u> Date of Completion
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### Mold Assessment Consultant or Adjustor License Holder Certification

- I hereby certify that I have inspected the property described in this certificate and that based on my inspection I have determined that the property does not contain evidence of mold damage. A copy of the written evaluation that forms the basis for my certification has been provided to the person named in this certificate.

<u>N/A</u> Mold Assessment Consultant / Adjuster License Holder Signature	<u>N/A</u> Department of State Health Services Mold Assessment Consultant / Adjuster License No. and Expiration Date	<u>N/A</u> Date
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## **APPENDIX G**

### Mold Assessment Consultant Licenses



# TEXAS DEPARTMENT OF STATE HEALTH SERVICES

*Be it known that*

**APEX TITAN INC**

is licensed to perform as a

**Mold Assessment Company**

*in the State of Texas and is hereby governed by the rights, privileges, and responsibilities set forth in Title 25, Texas Administrative Code, Chapter 295, relating to Texas Mold Assessment and Remediation Rules, as long as this license is not suspended or revoked.*

A handwritten signature in black ink, appearing to read "John Hellerstedt".

John Hellerstedt, M.D.  
Commissioner of Health

License Number: ACO1061

Expiration Date: 4/16/2018

Control Number: 6852

(Void After Expiration Date)

VOID IF ALTERED      NON-TRANSFERABLE



**Texas Department of  
State Health Services**

**Mold Assessment Consultant**

**DARREN G BOWDEN**

**License No. MAC0321**

**Control No. 8416**

**Expiration Date: 2/15/2018**





**Texas Department of  
State Health Services**

**Mold Assessment Consultant**

**VERONICA L EWALD**

**License No. MAC1420**

**Control No. 8773**

**Expiration Date: 4/27/2019**





**Texas Department of  
State Health Services**

Mold Assessment Technician

**CLINTON S JECH**

**License No. MAT1075**

**Control No. 6725**

**Expiration Date: 3/12/2018**





# TEXAS DEPARTMENT OF STATE HEALTH SERVICES

*Be it known that*

## **STEVE MOODY MICRO SERVICES LLC**

is licensed to perform as a

### **Mold Analysis Laboratory**

*in the State of Texas and is hereby governed by the rights, privileges, and responsibilities set forth in Title 25, Texas Administrative Code, Chapter 295, relating to Texas Mold Assessment and Remediation Rules, as long as this license is not suspended or revoked.*

A handwritten signature in black ink, appearing to read "Kirk Cole".

Kirk Cole, Interim  
Commissioner of Health

License Number: LAB0117

Expiration Date: 12/1/2017

Control Number: 6533

(Void After Expiration Date)



## AIHA Laboratory Accreditation Programs, LLC

*acknowledges that*

### Steve Moody Micro Services, LLC

2051 Valley View Lane, Farmers Branch, TX 75234

Laboratory ID: 102577

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

#### LABORATORY ACCREDITATION PROGRAMS

- INDUSTRIAL HYGIENE
- ENVIRONMENTAL LEAD
- ENVIRONMENTAL MICROBIOLOGY
- FOOD
- UNIQUE SCOPES

- Accreditation Expires:
- Accreditation Expires:
- Accreditation Expires: 09/01/2017
- Accreditation Expires:
- Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website ([www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org)) for the most current Scope.

*Gerald R Schultz*

Gerald Schultz, CIH  
Chairperson, Analytical Accreditation Board

*Cheryl O. Morton*

Cheryl O. Morton  
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 14: 03/26/2014

Date Issued: 05/28/2015



## AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

**Steve Moody Micro Services, LLC**  
2051 Valley View Lane, Farmers Branch, TX 75234

Laboratory ID: **102577**  
Issue Date: 05/28/2015

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

### Environmental Microbiology Laboratory Accreditation Program (EMLAP)

**Initial Accreditation Date: 06/01/2003**

EMLAP Category	Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
<b>Fungal</b>	Air - Culturable	SOP Q-00039	In House: Determination of Fungal Concentrations in Airborne Samples (cultured)
	Bulk - Culturable	SOP Q-00040	In House: Determination of Fungal Concentration in Bulk and Surface Samples (cultured)
	Surface - Culturable	SOP Q00040	In House: Determination of Fungal Concentrations in Bulk and Surface Samples (cultured)
	Air - Direct Examination	SOP Q-00037	ASTM D7391-09 (Modified): Determination of Fungal Concentrations in Airborne Samples Utilizing Brightfield Microscopy (noncultured)
	Bulk - Direct Examination	SOP Q-00038	In House: Determination of Fungal Particulates in Bulk and Surface Samples Utilizing Brightfield Microscopy (noncultured)
	Surface - Direct Examination	SOP Q-00038	In House: Determination of Fungal Particulates in Bulk and Surface Samples Utilizing Brightfield Microscopy (noncultured)

A complete listing of currently accredited Environmental Microbiology laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>