**DATE:** November 12, 2018

**TO:** Pam Flores, Principal

**SUBJECT:** LHS Killough - IAQ - Clearance for Remediation - Mechanical Room by Room A123

On Saturday, November 10, ARC Abatement remediated the mold in the Mechanical Room by Room A-123. This afternoon, we received clearance on the area. ARC Abatement will be out this afternoon to take down the containment. I will be there to let them in and open the doors.
Projects will be doing the build back on the area.
If you have any questions, please contact me.
Thanks,
Paul

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

November 28, 2018

Mr. Paul Siddal
**Lewisville Independent School District**
340 Lake Haven Road
Lewisville, Texas 75057

**Re: Post-Remediation Clearance Report**
LHS Killough High School
Mechanical Room A123
1301 Summit Avenue
Lewisville, Texas 75077

*Apex Project No.: 725010727156*

Dear Mr. Siddal:

Apex Companies, LLC (Apex) has prepared this letter report to document observations, measurement and analytical data of a microbial post-remediation assessment of Mechanical Room A123 at LHS Killough High School, located at 1301 Summit Avenue in Lewisville, Texas (subject space). Apex has completed this assessment within general accordance of industry standards and practices and has prepared this report on behalf of Lewisville Independent School District.

## 1.0 BACKGROUND INFORMATION

On October 19, 2018, Ms. Veronica L. Ewald – Assistant Project Manager, with Apex and a Texas Department of Licensing and Regulation (TDLR) Mold Assessment Consultant (MAC) license number MAC1420 (expires April 27, 2019) completed a limited microbial assessment within Mechanical Room A123 at LHS Killough located at 1301 Summit Avenue in Lewisville, Texas.

Apex observed water damaged building materials/suspect mold growth within Mechanical Room A123.

## 2.0 SAMPLING METHODOLOGY

Apex employed a combination of investigative techniques for this clearance event, including:

*Visual Observation* – Review of the mold remediated areas of the mechanical room. Observations included the use of a moisture meter to determine if building materials were dry and no longer affected by moisture.

*Bioaerosol Sampling* - Non-viable bioaerosol samples: Samples of ambient indoor and outdoor air will be collected for laboratory analyses of bioaerosols (airborne particles that are living organisms or fragments that have originated from living organisms) in ambient air. Samples will be collected by drawing air across an adhesive material within a “spore trap” cassette. Ambient air will be drawn over the spore trap using a high-volume vacuum pump, calibrated to draw 15 liters of air per minute, for five minutes

The bioaerosol samples were submitted to Moody Labs, Inc. in Farmers Branch, Texas for microscopic analysis.

## 3.0 MOLD REMEDIATION SUMMARY

Remediation activities were conducted by ARC Abatement, a Texas-licensed contractor under contract with Lewisville ISD Remediation work was conducted in accordance with Apex's Protocols.

High efficiency particulate air (HEPA)-filtered air filtration devices (AFD) were operated within the work area for the duration of removal and cleaning activities. The AFDs were used to reduce airborne dust and bioaerosols.

All water-damaged and mold-impacted materials were either removed and discarded or cleaned with a combination of HEPA vacuuming, sanding, treating with an anti-microbial disinfectant, and application of an encapsulating product. In addition, all non-affected exposed surfaces were cleaned using a combination of HEPA vacuuming, sanding, damp wiping, and drying.

### 3.1 Post-Remediation Inspection

Apex returned to the site on November 11 and November 12, 2018 to determine if remediation activities were successful. The work area was visually inspected for the presence of suspect mold growth and tested for moisture content. Photos from the post-remediation inspection are included in **Appendix B**.

Based on the both inspections, ARC Abatement had removed or remediated all material as noted in the Protocol and Addendum. Apex did not observe any discoloration, accumulation of dust or debris, or suspect mold growth in the remaining areas.

### 3.2 Mold Clearance Bioaerosol Sampling

Following remediation activities, Apex collected one (1) bioaerosol sample from inside the work area as well as two (2) outdoor samples for comparison to natural environment on November 11, 2018. The results of these air samples indicated that additional cleaning was necessary for the containment to achieve clearance.

Fungal spores were identified, quantified, and classified according to genus. **Table 1** summarizes the mold clearance bioaerosol sampling event of November 11, 2018.

**TABLE 1 – MOLD CLEARANCE BIOAEROSOL SAMPLING**
**Samples Collected November 11, 2018**
**LHS Killough High School**
**1301 Summit Avenue, Lewisville, TX**

| Sample ID | Sample Location | Spore Type | Counts/m$^3$ |
|---|---|---|---|
| 2646298 | Outside / Background, Parking Lot | *Basidiospores* | 2,666 |
| | | *Cladosporium* | 413 |
| | | *Agaricales group* | 267 |
| | | *Hyphal / Spore Fragments - Hyaline* | 80 |
| | | *Hyphal / Spore Fragments - Dematiaceous* | 40 |
| | | *Coprinus group* | 40 |
| | | *Myxomycete / Rust / Smut* | 40 |
| | | *Aspergillus / Penicillium* | 40 |
| | | *Ascospores* | 27 |
| | | *Alternaria* | 13 |
| | | **Total Concentration** | **3,626** |
| 2648204 | Impact, Inside Enclosure | ***Stachybotrys*** | ***400*** |
| | | *Aspergillus / Penicillium* | 240 |
| | | *Hyphal / Spore Fragments - Dematiaceous* | 53 |
| | | *Myxomycete / Rust / Smut* | 27 |
| | | *Chaetomium* | 27 |
| | | *Basidiospores* | 27 |
| | | *Hyphal / Spore Fragments - Hyaline* | 13 |
| | | *Curvularia* | 13 |
| | | *Ascospores* | 13 |
| | | **Total Concentration** | **819** |

| **TABLE 1 – MOLD CLEARANCE BIOAEROSOL SAMPLING**<br>**Samples Collected November 11, 2018**<br>**LHS Killough High School**<br>**1301 Summit Avenue, Lewisville, TX** | | | |
|---|---|---|---|
| Sample ID | Sample Location | Spore Type | Counts/$m^3$ |
| 2648203 | Outside / Background, Parking Lot | *Basidiospores*<br>*Cladosporium*<br>*Aspergillus / Penicillium*<br>*Hyphal / Spore Fragments - Dematiaceous*<br>*Agaricales group*<br>*Paecilomyces*<br>*Myxomycete / Rust / Smut*<br>*Hyphal / Spore Fragments - Hyaline*<br>*Ascospores*<br>*Coprinus group* | 3,026<br>373<br>320<br>160<br>133<br>133<br>80<br>67<br>67<br>40 |
| | | **Total Concentration** | **4,399** |
| **Note: highlighted fungal taxa** represent higher indoor concentrations than outdoors, or concentrations reported indoors and not outdoors. | | | |

Based on the laboratory report dated November 11, 2018 the containment did not achieve our clearance criteria. Although, the total estimated fungal bioaerosol concentrations in the containment containment were less than the total estimated fungal bioaerosol concentration detected in the outdoor samples, the mold species *Stachybotrys* was significantly elevated with none reported in the two outdoors samples.

Upon completion of additional remediation activities by ARC Abatement, Apex completed a re-test of the work area on November 12, 2018. **Table 2** summarizes the mold clearance bioaerosol re-test on November 12, 2018.

| **TABLE 2 – MOLD CLEARANCE BIOAEROSOL SAMPLING**<br>**Samples Collected November 12, 2018**<br>**LHS Killough High School**<br>**1301 Summit Avenue, Lewisville, TX** | | | |
|---|---|---|---|
| Sample ID | Sample Location | Spore Type | Counts/$m^3$ |
| 2646319 | Outside / Background, Parking Lot | *Aspergillus / Penicillium*<br>*Basidiospores*<br>*Ascospores*<br>*Cladosporium*<br>*Hyphal / Spore Fragments - Dematiaceous*<br>*Myxomycete / Rust / Smut Coprinus group*<br>*Agaricales group*<br>*Epicoccum*<br>*Alternaria* | 1,293<br>1,053<br>320<br>147<br>80<br>53<br>27<br>13<br>13<br>13 |
| | | **Total Concentration** | **3,012** |
| 2646314 | Impact, Inside Enclosure | *Aspergillus / Penicillium*<br>*Basidiospores*<br>*Ascospores* | 120<br>13<br>13 |
| | | **Total Concentration** | **146** |

| **TABLE 2 – MOLD CLEARANCE BIOAEROSOL SAMPLING**<br>**Samples Collected November 12, 2018**<br>**LHS Killough High School**<br>**1301 Summit Avenue, Lewisville, TX** | | | |
|---|---|---|---|
| Sample ID | Sample Location | Spore Type | Counts/$m^3$ |
| 2646306 | Outside / Background, Parking Lot | *Aspergillus / Penicillium*<br>*Basidiospores*<br>*Ascospores*<br>*Agaricales group*<br>*Myxomycete / Rust / Smut*<br>*Epicoccum*<br>*Coprinus group*<br>*Cladosporium*<br>*Hyphal / Spore Fragments - Dematiaceous*<br>*Hyphal / Spore Fragments - Hyaline*<br>*Alternaria* | 1,146<br>706<br>160<br>80<br>80<br>53<br>40<br>40<br>27<br>13<br>13 |
| | | **Total Concentration** | **280** |
| **Note: highlighted fungal taxa** represent higher indoor concentrations than outdoors, or concentrations reported indoors and not outdoors. | | | |

According to the laboratory report dated November 12, 2018, the estimated fungal bioaerosol concentration in the containment was less than the total estimated fungal bioaerosol concentration detected in the outdoor samples. Additionally, a comparison of individual mold species revealed similar species with estimated fungal bioaerosol concentrations lower than the outdoor samples. Therefore, Apex considered both the Master Bedroom containment achieving clearance criteria.

## 4.0 CONCLUSIONS

Based on our observations, measurements, and analytical results, clearance criteria as detailed in Apex's Mold Remediation has been achieved. Apex does not recommend any further remediation or restoration activities. Reconstruction and build-back may commence.

## 5.0 LIMITATIONS

This report has been prepared to assist Lewisville ISD, Inc. in evaluating the remediation at the residential structure. Apex provided these services consistent with the level and skill ordinarily exercised by members of the profession currently practicing under similar conditions. This statement is in lieu of other statements either expressed or implied. This report is intended for the sole use of Lewisville ISD. The intent of this letter report is to aid the restoration contractor, building owner, claims specialist, adjustors or insurance company in assessing the water loss impact.

The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document, the findings, conclusions, or recommendations is at the risk of said user. Although a reasonable attempt has been made to locate sources of water impact in the areas identified, the inspection techniques used are inherently limited in the sense that only full demolition procedures will reveal all building materials of a structure. Other unidentified sources of water damage and/or microbiological impact may be located within walls, ceiling cavities, below flooring or grade, and other non-accessible areas. Caution should be used during any restoration activities.

Additionally, the passage of time may result in a change in the environmental characteristics at this property. This report does not warrant against future operations or conditions that could affect the recommendations made.

On behalf of Apex, we thank you for this opportunity to support Lewisville ISD. Please feel free to contact Apex should you have any questions or concerns.

Sincerely,

**Apex Companies, LLC**

Dave Davis
Industrial Hygienist
Texas Mold Assessment Consultant MAC1335

Phillip G. Fronczek, CHMM
Program Manager
Texas Mold Assessment Consultant MAC1257

Attachments: Appendix A – Mold Assessment and Remediation Protocol
Appendix B – Post-Remediation Photos and Laboratory Reports
Appendix C – Certificate of Mold Remediation (MDR)
Appendix D – Licenses and Certifications

# APPENDIX A

# MOLD ASSESSMENT AND REMEDIATION PROTOCOL

# MOLD REMEDIATION PROTOCOL

**Property:**

**LHS Killough High School**
Mechanical Room A123
1301 Summit Avenue
Lewisville, Texas 75077

Date of Protocol: November 5, 2018

Apex Project No. 725010727156

**Prepared for:**

**Lewisville Independent School District**
340 Lake Haven Road
Lewisville, Texas 75057

**Prepared By:**

**Apex TITAN, Inc.**
**A Subsidiary of Apex Companies, LLC**

Veronica L. Ewald
Mold Assessment Consultant
Texas License No. MAC1420
Expiration Date: 04/27/2019

**Index**



Veronica L. Ewald
MAC1420 exp. 04/27/2019

## LIMITED MICROBIAL ASSESSMENT SUMMARY

On October 19, 2018, Ms. Veronica L. Ewald – Assistant Project Manager, with Apex and a Texas Department of Licensing and Regulation (TDLR) Mold Assessment Consultant (MAC) license number MAC1420 expires April 27, 2019, completed the limited microbial assessment within Mechanical Room A123 at LHS Killough located at 1301 Summit Avenue in Lewisville, Texas.

According to information provided by the Client and representatives, it appears that a water leak associated with the HVAC equipment/lines within Mechanical Room A123 has impacted building materials.

Apex observed water damaged building materials/suspect mold growth within Mechanical Room A123. See **Appendix A** for photographic documentation.

Due to the wall systems within Mechanical Room A123 being finished with building materials, Apex was unable to determine the quantity of mold growth. However, from the observations of the visible mold growth and suspected leaks within the wall cavity, greater than 25 contiguous square feet (SF) of mold growth is anticipated; therefore, Apex has prepared this Remediation Protocol in accordance with TDLR's *Mold Assessors and Remediators Administrative Rules.*

Materials likely impacted within the spaces include drywall/joint compound and duct insulation.

Apex recommends that remediation activities be performed in accordance with TDLR's *Mold Assessors and Remediators Administrative Rules.*, including the Mold Remediation Contractor (MRC) submitting the mandatory 5-day notification to the TDLR.

The following Mold Remediation Protocol shall be followed and completed by the MRC.

## PROJECT/WORK IDENTIFICATION

### I. Material Description and Quantities

The following tasks are intended to be followed during the remediation of mold growth and water damaged areas within Mechanical Room A123 at LHS Killough located at 1301 Summit Avenue in Lewisville, Texas. Mold growth was identified in the following areas and quantities and remediation shall be performed in accordance with this Protocol:

Mechanical Room A123

- Approximately 40 SF** of water-damage/mold growth is assumed behind the walls systems (see attached figure). **Note:** recommend removing wall from floor to ceiling due to the finishing system.

**Quantities listed are estimates only.

**Note:** Apex's assessment was non-destructive in nature. Therefore, additional mold growth and/or water damage may be present within wall cavities or other hidden areas. Apex should be notified immediately upon additional mold discoveries to update this report and Protocol.

Veronica L. Ewald
MAC1420 exp. 04/27/2019

APEX

## 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 respirators (N-95 or greater). 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 containment. The containment includes at a minimum: an enclosure consisting of two layers of four-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 inches by ten 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 feet.

The containment will be placed under negative pressure during the remediation. In addition, air filtration devices (AFDs) shall be operated continuously after the remediation until the containment achieves clearance. However, the AFDs may be placed into "scrub" mode upon completion of active remediation to reduce dust and bioaerosols. The AFDs must operate for a minimum of 12 hours in scrub mode prior to Apex's post assessment. Dehumidifiers may be utilized as needed to maintain the relative humidity below 60 percent.

- If the work area is placed under a negative air pressure regime, the remediation contractor shall provide manometers to measure the pressure differential in each work area relative to non-work areas. The use of digital recording manometer(s) is suggested to provide a permanent record of the pressure differential, including the time, date, and measured pressure differential.

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.

The Contractor shall supply fire extinguishers appropriate for the anticipated conditions at the subject site. A minimum of one (1) fire extinguisher shall be provided inside each containment, plus one (1) outside containment, in the general area of the work area. This may be modified for mini-containments to having only the external fire suppression device. All workers shall be instructed in the general principles of fire extinguisher use and the hazards associated with incipient stage firefighting.

## 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 drywall.

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.

The use of encapsulating products or sealants as part of remediation activities is not recommended. Only upon completion of Apex's visual post-remediation assessment, and upon authorization by Apex, may the work area be encapsulated with Foster's 40/20 or equivalent. 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 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 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 results collected from outside.

Veronica L. Ewald

Veronica L. Ewald
MAC1420 exp. 04/27/2019

APEX

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. Apex will require written confirmation from the client that the underlying cause or causes of the mold that were identified for this project has been remediated prior to Apex signing the Texas Department of Insurance Certificate of Mold Remediation Form (MDR-1) or any other certifications.

## 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 TDLR 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 Licensing and Regulation (TDLR), *Mold Assessors and Remediators Administrative Rules*
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[3]…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.

Veronica L. Ewald

Veronica L. Ewald
MAC1420 exp. 04/27/2019

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.

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.

The contractor is responsible for payment of clearance testing services/analytical fees if containment fails to achieve clearance after second try.

**END OF SECTION**

Veronica L. Ewald
MAC1420 exp. 04/27/2019

APEX

# APPENDIX A

# PHOTOGRAPHIC DOCUMENTATION

**Site Photographs -** 10/19/2018
**Apex TITAN, Inc.** Lewisville, TX

Photograph 1
Description: Fungal growth on wall

Photograph 2
Description: Fungal growth on wall

Photograph 3
Description: Fungal growth behind duct on wall

Photograph 4
Description: Fungal growth on wall

Photograph 5
Description: Fungal growth on wall

Photograph 6
Description: Fungal growth on wall behind beam

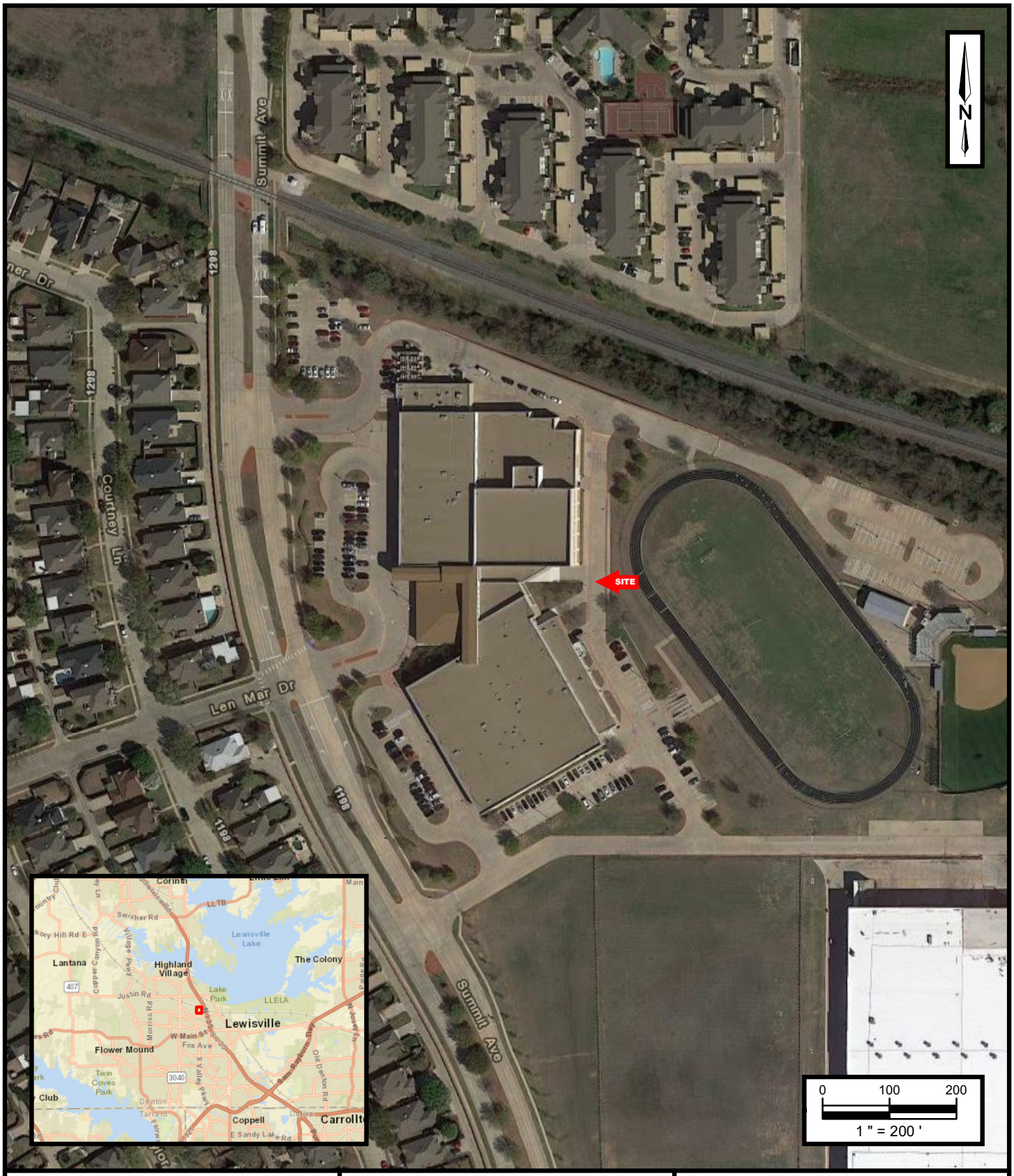
| | |
|---|---|
| Photograph | 7 |
| Description: | Fungal growth on wall |

| | |
|---|---|
| Photograph | |
| Description: | |

| | |
|---|---|
| Photograph | |
| Description: | |

# APPENDIX B

# MOLD REMEDIATION DRAWING




**Lewisville Independent School District**
**LHS Killough**
**Mechanical Room A123**
1301 Summit Avenue
Lewisville, Texas

Project No. 725010727156

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

## FIGURE 1

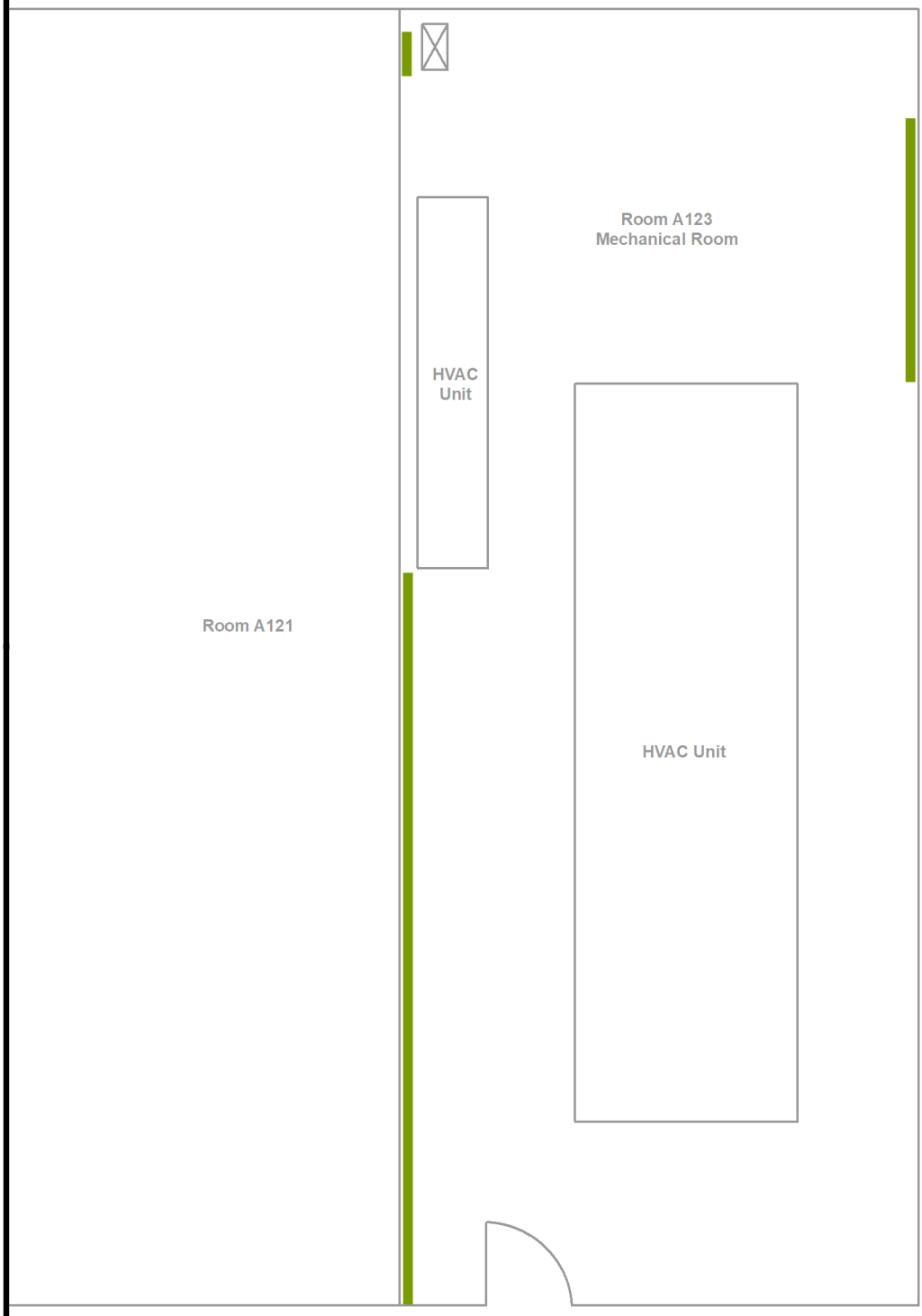
### Site Location Map



Q:\Projects\725010727156\Figure 1.mxd Modified 11/5/2018 by jsimpson NAD 1983 2011 StatePlane Texas North Central FIPS 4202 FtUS Coordinate System

**LEGEND:**
Fungal Growth Location

**NOTE:**
Fungal Growth Locations Are Approximate.

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**Lewisville Independent School District**
**LHS Killough**
**Mechanical Room A123**
1301 Summit Avenue
Lewisville, Texas

Project No. 725010727156

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

**FIGURE 2**

**Fungal Growth Location Map**

Veronica L. Ewald

Q:\Projects\725010727156\Figure 2.mxd Modified 11/5/2018 by jsimpson NAD 1983 2011 StatePlane Texas North Central FIPS 4202 FtUS Coordinate System


**APPENDIX C**

**APEX LICENSURE**

# *Mold Assessment Company*
# APEX TITAN INC

License Number: ACO1061

The entity named above is licensed by the Texas Department of Licensing and Regulation.

**License Expires:** April 16, 2020

Brian E. Francis
Executive Director

# TEXAS DEPARTMENT OF STATE HEALTH SERVICES

BE IT KNOWN THAT

## VERONICA L EWALD

is hereby licensed and authorized to perform as a

## Mold Assessment Consultant

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.

John Hellerstedt, M.D.
Commissioner of Health

License Number: **MAC1420**

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

Control Number: **8773**

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

# APPENDIX B

# POST-REMEDIATION PHOTOS AND LABORATORY REPORTS

**LHS Killough High School**
**Mechanical Room A123**
**1301 Summit Avenue**
**Lewisville, Texas 75077**
**Project # 725010727156**
**Photographs**


Photograph 1: Air sampling

Photograph 2: Air sampling

Photograph 3: Inside containment

Photograph 4: Inside containment

**LHS Killough High School**
**Mechanical Room A123**
**1301 Summit Avenue**
**Lewisville, Texas 75077**
**Project # 725010727156**
**Photographs**

Photograph 5: Inside containment


Photograph 6: Air sampling

# APPENDIX C

# CERTIFICATE OF MOLD REMEDIATION (MDR)

# CERTIFICATE OF MOLD DAMAGE REMEDIATION

Certificate Number 18-03-105 Date of Issuance November 26, 2018

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

Mailing Address 340 Lake Haven

City Lewisville State Texas Zip 75057

**Property Description:**

Name/Description LISD Killough HS Room A123 Mechanical Room

Number 1301 Street Summit Avenue Lot N/A Block Unknown

Addition or Tract N/A City Lewisville County Denton

**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.

| Jessica L. Ewald | MAC1420; 4/27/19 | 11/27/2018 |
|---|---|---|
| Mold Assessment Consultant License Holder Signature | Department of State Health Services Mold Assessment Consultant License No. and Expiration Date | Date |

**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 10th day after the date of completion.

| Bruce B Metz | MRC-1243 | November 12, 2018 |
|---|---|---|
| Mold Remediation Contractor License Holder Signature | Department of State Health Services Mold Remediation Contractor License No. and Expiration Date | Date of Completion |

**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.

| N/A | N/A | N/A |
|---|---|---|
| Mold Assessment Consultant / Adjuster License Holder Signature | Department of State Health Services Mold Assessment Consultant / Adjuster License No. and Expiration Date | Date |

# APPENDIX D

# LICENSES AND CERTIFICATIONS

Mike Arismendez
Chair

Thomas F. Butler
Vice Chair

Gerald R. Callas, M.D.
Helen Callier
Rick Figueroa
Gary F. Wesson, D.D.S., M.S.
Deborah A. Yurco

# Mold Assessment Company
# APEX TITAN INC

License Number: ACO1061

The entity named above is licensed by the Texas Department of Licensing and Regulation.

**License Expires:** April 16, 2020

Brian E. Francis
Executive Director

# TEXAS DEPARTMENT OF STATE HEALTH SERVICES

BE IT KNOWN THAT

## DAVID A DAVIS

is hereby licensed and authorized to perform as a

## Mold Assessment Consultant

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.

John Hellerstedt, M.D.
Commissioner of Health

License Number: **MAC1335**

Control Number: **8845**

Expiration Date: **1/5/2020**

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

Mike Arismendez
Chair

Thomas F. Butler
Vice Chair

Gerald R. Callas, M.D.
Helen Callier
Rick Figueroa
Gary F. Wesson, D.D.S., M.S.
Deborah A. Yurco

# Mold Analysis Laboratory

## STEVE MOODY MICRO SERVICES LLC

License Number: LAB0117

The entity named above is licensed by the Texas Department of Licensing and Regulation.

**License Expires:** March 01, 2020

Brian E. Francis
Executive Director

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** | Accreditation Expires: |
| ☐ | **ENVIRONMENTAL LEAD** | Accreditation Expires: |
| ✓ | **ENVIRONMENTAL MICROBIOLOGY** | Accreditation Expires: September 01, 2019 |
| ☐ | **FOOD** | Accreditation Expires: |
| ☐ | **UNIQUE SCOPES** | 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) for the most current Scope.

*William Walsh, CIH*
*Chairperson, Analytical Accreditation Board*

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

Revision 15: 03/30/2016

Date Issued: 08/31/2017

# 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: 08/31/2017

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 *(for internal methods only)* |
|---|---|---|---|
| **Fungal** | Air - Culturable | SOP Q-00039 | In House: Determination of Fungal Concentrations in Airborne Samples Utilizing Brightfield Microscopy (cultured) |
| | Bulk - Culturable | SOP Q-00040 | In House: Determination of Fungal Concentration in Bulk and Surface Samples Utilizing Brightfield Microscopy (cultured) |
| | Surface - Culturable | SOP Q00040 | In House: Determination of Fungal Concentrations in Bulk and Surface Samples Utilizing Brightfield Microscopy (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