



## **Pre-Demolition Limited Regulated Hazardous Materials Survey Report**

for

**Commercial Office with Attached Bank Branch  
3108 Columbia Pike  
Arlington, VA 22206**

Prepared for

**Department of Environmental Services – Facilities Design & Construction  
1400 N. Uhle Street, Suite 403  
Arlington, VA 22201**



Prepared by

**JSK Environmental Consulting, LLC  
13130 Peach Leaf Place  
Fairfax, VA 22030**

**June 6, 2022**

**JSK Project Number JSK-2022-28**



June 6, 2022

Arlington County Government  
2100 Clarendon Blvd, Suite 511  
Arlington, VA 22201

Attn: Ms. Maire Bourque  
Facilities Project Specialist  
Phone: 703-228-3988  
E-mail: [MBorque@arlingtonva.us](mailto:MBorque@arlingtonva.us)

Sub: Pre-Demolition Limited Regulated Hazardous Materials Survey Report  
Commercial Office with Attached Bank Branch  
3108 Columbia Pike  
Arlington, VA 22206  
JSK Project Number JSK-2022-28

Dear Ms. Bourque:

JSK Environmental Consulting, LLC (JSK) performed the Pre-Demolition Regulated Hazardous Materials Survey that you requested. This included a Limited Pre-Demolition Asbestos, Lead-based Paint and Hazardous Materials Survey at the subject property. JSK provided its services in general accordance with our proposal (JSK Proposal No.: JSK-2022-31), dated April 16, 2022.

JSK thanks you for choosing us as your consultant for this project. Please contact us at 703-980-0573 if you have any questions or we may be of further service.

Respectfully Submitted,

**JSK ENVIRONMENTAL CONSULTING, LLC.**

A handwritten signature in black ink that reads "Nand Kaushik". The signature is written in a cursive, flowing style.

Nand Kaushik  
Principal

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## 1 EXECUTIVE SUMMARY

JSK Environmental Consulting, LLC was retained by the Arlington County Government to conduct a pre-demolition regulated materials survey that included asbestos-containing materials (ACM), limited lead-based paint (LBP) screening, polychlorinated biphenyls (PCBs), and a visual hazardous materials survey within the subject property located at 3108 Columbia Pike in Arlington, Virginia. The subject property was a former commercial office with an attached Bank Branch. It is currently not operational. The survey was conducted on May 20, 2022, by Mr. Michael Allshouse, EPA-accredited and State of Virginia licensed asbestos inspector and LBP risk assessor and Mr. Nand Kaushik, EPA-accredited and State of Virginia licensed asbestos inspector.

The subject property is improved with a three-story office building that also includes a mezzanine area and a basement level. Common areas at the subject property consist of the small lobby, basement, elevator cab, stairwells, corridors, and elevator lobbies. In addition, restrooms are provided on each floor except for bank level. Corridor finishes consist of vinyl and carpet flooring, painted gypsum board walls, and acoustical tile ceilings. Common area finishes consist of tile flooring, painted gypsum board walls, and acoustical tile ceilings. All spaces are currently vacant. Former tenant occupancy included whole-floor tenants and multi-floor tenants. At one time it appeared the building was configured for five tenants. The tenant space flooring consists of carpet, ceramic tile, wood plank and vinyl sheet or vinyl tile. Walls are typically painted gypsum board with some areas of vinyl wall covering and stone panels in the bank space are also present. Ceilings are typically suspended acoustic tiles. It appears that the construction of the building dates back to 1961. JSK understands that the client plans to demolish the building.

The Regulated Hazardous Material survey was conducted within the building that is proposed to be demolished. The purpose of the regulated material survey was to identify the presence of ACM, LBP, PCB, and other hazardous materials (petroleum products, VOC's, or other materials and chemicals labeled "hazardous") in exposed and/or accessible areas within the structure

### Asbestos Survey Summary

The asbestos inspection and sampling were conducted on May 20, 2022, by asbestos inspectors Mr. Michael Allshouse and Mr. Nand Kaushik.

A total of 51 samples were collected from 24 suspect homogenous materials (HM) from the interior, exterior and the roof of the residential building during the asbestos survey. The samples were analyzed by polarized light microscopy (PLM). The U.S. Environmental Protection Agency (EPA), the U.S. Occupational Safety and Health Administration (OSHA) and State of Virginia define an ACM as any material containing greater than one percent (>1%) asbestos.

Laboratory analysis indicated the following ACMs at the subject property building:

- **Silver Roof Vent Coating (HM3)** located on the building roof.
- **9" by 9" brown vinyl floor tile with black mastic (HM7)** located all throughout the stairwell (on west side), and throughout Mezzanine Level and portions of the 3<sup>rd</sup> Floor.
- **Gray Pebble Pattern Resilient Sheet Flooring over Brown Vinyl Floor tiling with black mastic (HM10)** located in the Building Main Floor Corridor near Elevator.



- **9" by 9" White Vinyl Floor Tile with Black Mastic (HM18)** located in the Building Mezzanine Floor, Office Space
- **12" by 12" White Mottled Vinyl Floor Tile with Black Mastic and Gray/White Leveling Compound (HM19) (only the black mastic was found to be asbestos-containing)**, located throughout the building 2<sup>nd</sup> floor.
- **9" by 9" Green Vinyl Floor Tile with Black Mastic (HM20)** located throughout the Building stairwell on East Side.
- **Tan carpet glue with black mastic (HM21)** located throughout the Building 3<sup>rd</sup> floor Office Areas.
- **White Setting Bed with Black Mastic (HM22)** located in the Building 3<sup>rd</sup> Floor Break Room on West Side and throughout the 3<sup>rd</sup> floor office areas.
- **12" by 12" Gray/Black Specs Vinyl Floor Tile with Yellow Mastic over Gray Vinyl Floor Tile with Black Mastic over Gray Vinyl Floor Tile with Yellow Mastic over Cream Resilient Floor Sheet with Black Mastic (HM23), (only the black mastic was found to be asbestos-containing)**, located in the Building 3<sup>rd</sup> Floor Office Space on Northwest Corner.
- **Gray Interior Window Glazing (HM24)** located in the interior windows on the 3<sup>rd</sup> floor and throughout the building.

As evidenced from the above results, the black mastic that is present in the flooring throughout the building was found to be asbestos containing. In many locations the flooring has been built up over the years when renovation activities were conducted, and the mastic is found within those layers. JSK did not observe any assumed ACMs within the facility.

#### **Limited Lead-Containing Paint Screening**

In 1978, the Consumer Product Safety Commission banned the sale of lead-based paint to consumers, and its application to areas where consumers have direct access to painted surfaces. As a result of this ban, buildings painted prior to 1978 are suspected of containing leaded paint. The EPA and the U.S. Department of Housing and Urban Development (HUD) define a LBP as any coating having 0.5% lead by weight with laboratory analysis.

The LBP testing was performed using an x-ray fluorescence analyzer (XRF) to test painted, stained, or varnished interior permanent building components for the presence of lead. In addition, a visual assessment for paint condition was conducted in all rooms. The limited LBP Inspection was conducted in general accordance with the U.S. Department of Housing & Urban Development (HUD) "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing", 2012 Edition (HUD Guidelines) to identify LBP. While the HUD Guidelines were developed specifically for housing, both the Virginia Department of Environmental Quality (DEQ) and the U.S. Environmental Protection Agency (EPA) references these guidelines when testing for LBP in many facilities. According to DEQ Regulations, paint or varnishes are considered to be "lead-based" if lead levels of 1.0 mg/cm<sup>2</sup> or greater are measured using an XRF.

A total of 112 XRF readings, including calibrations, were performed. This survey was limited in nature and was not intended to be a comprehensive survey of all painted components within the facility. The condition of the painted surfaces was found to be generally in an intact condition. However, the exterior painted surfaces were generally in a deteriorated condition. The results of the XRF survey are discussed in more details in Section 5.2 A total of nine (9) XRF readings of component coatings, from the structures, tested had XRF readings equal to or greater than the "positive" classification of 1.0 mg/cm<sup>2</sup>. Of these, two were interior components and the remaining 7 were exterior component surfaces. This is summarized below:

### **Interior Readings**

- Cream wooden stair riser in the stairwell on the east side leading from the 1<sup>st</sup> floor to the 2<sup>nd</sup> floor: Reading of 5.8 mg/cm<sup>2</sup>. The paint on this was in a deteriorated condition (10%).
- Cream metal stair riser in the stairwell on the east side leading from the 2<sup>nd</sup> floor to the 3<sup>rd</sup> floor: Reading of 3.4 mg/cm<sup>2</sup>. The paint on this was in an intact condition.

### **Exterior Readings**

- White metal column at the building rear entrance: Reading of 1.3 mg/cm<sup>2</sup>. The paint on this was in a deteriorated condition (10%).
- Cream metal I-beam at the building rear entrance: Reading of 1.7 mg/cm<sup>2</sup>. The paint on this was in a deteriorated condition (25%).
- Cream metal I-beam at the building front entrance: Reading of 1.8 mg/cm<sup>2</sup>. The paint on this was in a deteriorated condition (10%).
- White metal window lintel at the building front entrance: Reading of 2.1 mg/cm<sup>2</sup>. The paint on this was in an intact condition.
- White metal column at the building front entrance: Reading of 1.3 mg/cm<sup>2</sup>. The paint on this was in a deteriorated condition (20%).
- Cream metal door casing at the building side entrance (East side): Reading of 1.2 mg/cm<sup>2</sup>. The paint on this was in a deteriorated condition (10%).
- Cream metal door lintel at the building side entrance (East side): Reading of 1.7 mg/cm<sup>2</sup>. The paint on this was in a deteriorated condition (5%).

### **Polychlorinated Biphenyls (PCBs) Caulking and Sealants Survey Summary**

EPA regulations implementing the Toxic Substance Control Act (TSCA) prohibit the use of PCBs in caulk and other building materials manufactured with PCBs at levels greater than or equal to 50 ppm, including the continued use of such materials that are already in place.

JSK observed that the windows and the metal window frames did not have any caulking around them. Therefore, no caulk samples were collected for analysis of PCB's.

### **Other Hazardous Material Survey Summary**

The purpose of this limited visual survey for other hazardous materials was to provide general information for this facility regarding the presence of suspect hazardous materials and chemicals. A visual survey was conducted to provide general information for this facility regarding the presence of suspect hazardous materials.

The following materials were considered suspect:

- Fire/emergency lights throughout the subject property (total of 5)
- Smoke detectors throughout the subject property (total of 6)
- Fire extinguishers throughout the subject property (total of 12)
- Fire alarm system on the Building 1<sup>st</sup> floor.
- Mercury thermostats, mainly on the building 1<sup>st</sup> floor.

- Fluorescent lighting throughout the subject property. The lights were electronic with non PCB-containing ballasts.
- Motion Sensors.
- Few paint cans in the basement levels along with trash and debris.

This summary does not contain all the information presented in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made or actions taken based on this information

## 2 INTRODUCTION

JSK Environmental Consulting, LLC was tasked by the Arlington County Government, Department of Environmental Services (DES), Facilities Design and Construction Department to conduct a pre-demolition regulated Hazardous Materials survey at the subject property located at 3108 Columbia Pike in Arlington, Virginia. The subject property was a former commercial office with an attached Bank Branch. It is currently not operational. The survey was completed by a USEPA accredited and state of Virginia-licensed asbestos inspector and LBP risk assessor.

This survey report is organized into the following sections:

- Section 3 discusses the General Building and Survey Information.
- Section 4 discusses the Methodology.
- Section 5 discusses survey findings.
- Section 6 discusses conclusions and recommendations from the survey.

The following appendices were added to this report as supplemental information:

- Appendix A contains the laboratory report of the bulk sample analysis for asbestos and chain of custody.
- Appendix B contains a schematic layout of the facility and sample collection locations.
- Appendix C contains the XRF Field Log for the LBP survey and a schematic layout of the facility showing LBP locations.
- Appendix D contains the inspector and laboratory certifications; and
- Appendix E contains the Photo log of the asbestos samples collected from the facility, the LBP locations and hazardous materials identified at the subject property.

### 2.1 SCOPE OF SERVICES

The scope of services for this project consisted of conducting an asbestos, lead paint PCBs, and other hazardous materials survey, including inspection, sampling and analysis of accessible and exposed interior areas at the subject building that will be impacted by the demolition operations, including exterior materials and the roof.

The investigation included a review of client provided records or documents (if available), visual inspection of the subject area(s), asbestos sample collection, PLM asbestos sample analysis, quantification of ACMs, LBP assessment, and report preparation and review. No sampling was conducted for other suspect hazardous materials within the scope of this investigation.

#### **Asbestos Survey**

This survey was intended to identify all asbestos containing materials (ACM) as required by the EPA National Emission Standards for Hazardous Air Pollutants (NESHAP), the US Occupational Safety and Health Administration (OSHA) and the State of Virginia. Additional information relative to friability, quantity and condition is also provided to assist the owner or his representative in the appropriate decisions involved with renovation and demolition. Regulations pertaining to asbestos renovation and demolition surveys include 40

CFR Part 61 (EPA NESHAP), 29 CFR 1926.1101 (OSHA Asbestos in Construction) and applicable State of Virginia regulations.

### **Lead Paint Survey**

This survey was intended to identify LBP in general accordance with the EPA, OSHA and the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.

### **Polychlorinated Biphenyls Caulking and Sealants Survey**

This survey was intended to identify PCBs in caulking and sealants in general accordance with the EPA TSCA regulations.

### **Hazardous Materials Investigation**

The purpose of the proposed scope of services was to visually inspect the extent and identify hazardous materials. JSK visually inspected for and quantify chemicals found at the location, including but not limited to: cleaning chemicals, maintenance chemicals, paints, hydraulic equipment, above ground storage tanks, underground storage tanks, batteries, acids and photographic development; PCB and mercury containing items (ballasts, fluorescent light bulbs, thermostats, smoke detectors, exit signs); blood borne pathogens containers and the identification and quantification of containers/storage vessels associated with the spaces. No sampling was conducted for this assessment.

## **2.2 PURPOSE**

The purpose of this survey was to provide general information for the subject building regarding the presence, condition, and quantity of accessible and/or exposed building materials that contain asbestos, LBP and other hazardous materials, prior to the planned demolition of the building.

## **2.3 AUTHORIZATION**

Authorization to perform this work was given on May 12, 2022, through the issuance of a Standard Purchase Order Number 296066 issued by the Arlington County Government. The project was conducted in accordance with the scope, terms and conditions of JSK's signed Proposal No. JSK-2022-31, revision 1, dated April 16, 2022.

## **2.4 LIMITATIONS**

### **Asbestos**

This asbestos survey was intended to meet the requirements of the EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) for Asbestos demolition or renovation. The survey included a thorough inspection of accessible interior, exterior and roof areas of the subject property prior to demolition.

The survey included the interior, exterior and roof of the facility.

Destructive sampling, such as behind finished surfaces (plaster/drywall walls, above hard ceilings, etc.); inside mechanical chases, behind mirrored walls, under carpet or tiled floors, etc., was generally conducted to try to assess inaccessible or concealed materials. Void spaces which were evaluated included locations of suspected pipe or HVAC chases, wall cavities where fireproofing or other ACM was suspected, above finished ceiling systems where ACM was likely to exist, within pipe trenches or within concealed locations. Although JSK made an attempt to identify all areas of ACM, an exhaustive investigation of void spaces was not included in the scope of services for this project. There may exist conditions which were unable to be identified within the scope of this survey.

Inaccessible is defined as areas of the building that were locked, or where admittance was not permitted. It also includes areas/materials that could not be tested (sampled) without destruction of the structure or a portion of the structure, and areas/materials that could not be safely reached by the inspector or inspection team. In the event that access to a portion of the building was not obtained (which otherwise would have been tested), such limitations specifically are identified in the Findings Section of this report.

JSK did not sample any system which presented a hazard to the inspection team such as energized electrical systems or within confined spaces.

JSK did not collect samples from building elements where the intended use would be compromised by testing, such as fire rated doors, vapor barriers, mirror mastics, etc.

### **Lead Paint**

The limited inspection for lead-containing paints was not intended to be an exhaustive survey of all paints on the exterior of the building but a representation of the type of materials and components painted with lead-containing paint. The scope was not intended to comply with the strict requirements of a HUD lead-based paint inspection.

### **Polychlorinated Biphenyls**

Limited sampling of potential PCB-containing caulking and sealants was proposed to be conducted from select window frames within the subject property building. However, JSK observed that the windows had been recently replaced in the past 10 years or so and the wooden window frames did not have any caulking around them. Therefore, no caulk samples were collected for analysis of PCB's.

### **Other Hazardous Materials**

The other hazardous materials investigation was a visual survey only, no sampling was conducted.

## **2.5 WARRANTY**

The field and laboratory results reported herein are considered sufficient in detail and scope to determine the presence of accessible and/or exposed suspect ACM associated with the building structure. JSK warrants that the findings contained herein have been prepared in general accordance with accepted professional practices at the time of its preparation as applied by professionals in the community. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in this report.

The survey and analytical methods have been used to provide the client with information regarding the presence of accessible and/or exposed suspect ACM existing at the time of the inspection. Test results are valid only for the material(s) tested. There is a distinct possibility that conditions may exist which could not be identified within the scope of the study or which were not apparent during the site visit. This inspection covered only those areas that were exposed and/or physically accessible to the Inspector. The study is also limited to the information available from the client at the time it was conducted.

No other warranties are implied or expressed.

### 3 GENERAL BUILDING AND SURVEY INFORMATION

#### 3.1 BUILDING INFORMATION

<u>Subject Property:</u>	Commercial Office with Attached Bank Branch 3108 Columbia Pike Arlington, VA 22206
<u>Facility Construction Date:</u>	According to the Arlington County property records the subject property building was originally constructed in 1961.
<u>Previous Renovation Dates:</u>	It has been renovated over the years, but the last renovation date is unknown.
<u>Number of Floors:</u>	Three with a mezzanine level.
<u>Approximate Size (SF)</u>	17,600 SF total for all 3 levels and mezzanine with an additional 2,400 SF in the basement. Net rentable area of 15,200 SF.
<u>Construction Type</u>	Concrete masonry unit (CMU) load bearing walls & steel columns. Concrete filled metal deck on steel beams at floors Metal deck on open web steel joists at roof. Façade of painted brick masonry. Corridor finishes consist of vinyl and carpet flooring, painted gypsum board walls, and acoustical tile ceilings. Common area finishes consist of tile flooring, painted gypsum board walls, and acoustical tile ceilings
<u>Building Occupant(s):</u>	All spaces are currently vacant. Former tenant occupancy included whole-floor tenants and multi-floor tenants.
<u>Additional Information:</u>	The scope of the survey included the interior, exterior and roof of the building only.

#### 3.2 INSPECTION INFORMATION

<u>Name of JSK Inspector(s):</u>	Mr. Michael Allshouse Virginia Asbestos Inspector License Number: 3303003902. Virginia LBP Inspector License: 3356001040 Mr. Nand Kaushik Virginia Asbestos Inspector License Number: 3303004514
<u>Date(s) of Inspection:</u>	May 20, 2022
<u>Escort:</u>	JSK was unescorted during the survey.



## 4 METHODOLOGY

Inspection and sampling procedures were performed in general accordance with the guidelines published by the U.S. Environmental Protection Agency (EPA). The inspection and survey described below was performed by an EPA accredited and State of Montana-licensed asbestos inspector.

### 4.1 RECORD DOCUMENT REVIEW

Prior to conducting the visual inspection, JSK reviewed documents provided by the client, including drawings, floor plans, historical data, maintenance records, previous survey reports, laboratory reports, etc. for information regarding construction history and building materials.

The following documents were reviewed as a part of this Asbestos Survey:

- Property Condition Report, dated January 21, 201 – Provided by the Client.

### 4.2 ASBESTOS SURVEY METHODOLOGY

#### Inspection Procedures

An initial individual building structure walkthrough was conducted to determine the presence of suspect asbestos-containing materials that were accessible and/or exposed within the interior, exterior and roof of the building.

Destructive investigation, such as behind finished surfaces (plaster/drywall walls, above hard ceilings, etc.); inside mechanical chases, behind mirrored walls, under carpet or tiled floors, etc., was generally conducted in a limited fashion to try to assess inaccessible or concealed materials. The inspection team selected a few representative areas to perform an intrusive evaluation of void spaces within the building or structure. Such inspections were made by creating an opening of sufficient size to determine the presence, condition and quantity of suspect ACM within. Although JSK made an attempt to identify all areas of ACM, an exhaustive investigation of void spaces was not included in the scope of services for this project. There may exist conditions which were unable to be identified within the scope of this survey. JSK did not collect samples from building elements where the intended use would be compromised by testing, such as fire rated doors, vapor barriers, mirror mastics, etc.

Materials which were similar in color, texture, general appearance and which appear to have been installed at the same time were grouped in Homogeneous Sampling Areas. Such materials are termed "homogeneous materials" by the EPA. During this walkthrough, the approximate locations of these homogeneous materials were also noted.

The inspector evaluated the overall condition of the material and determined whether the materials were friable or non-friable by touching the material, where practical. A friable material is defined as any material able to be crushed, crumbled, pulverized or reduced to a powder by hand press when dry.

Each material was further assessed for overall condition. Conditions were rated as good, damaged or significantly damaged. JSK's inspector also identified the EPA classification of the material: Regulated ACM (RACM), Category I non-friable ACM, and Category II non-friable ACM, based on the materials current condition. JSK's inspector provided estimated quantities of the materials identified as ACM, based only on materials that were accessible and exposed.

### **Sampling Procedures**

Following the walkthrough, the Inspector collected samples of suspect materials.

EPA guidelines were used to determine the sampling protocol. Sampling locations were chosen to be representative of the homogeneous sampling area. While an effort was made to collect samples randomly, samples were taken preferentially from areas already damaged or areas which were the least visible to minimize disturbance of the material.

Each sample location was sprayed with amended water and was kept wet during the entire sampling process. Samples were collected by coring through the material from the surface down to the base substrate. All layers of the material were extracted in placed into a sample container for transport to the laboratory. Sample containers were sealed and labeled with a unique sample identification number. Where appropriate, sampled materials were sealed with an encapsulant or covered with tape after sampling. JSK is not responsible for restoring the sampled areas to their pre-sampled condition.

### **Laboratory Analysis**

All samples were analyzed at Aerobiology Laboratory located at 43760 Trade Center Place, Suite 100, Sterling, VA. The Aerobiology Laboratory is a National Voluntary Laboratory Accreditation Program (NVLAP) Accredited and an American Industrial Hygiene Association (AIHA) Accredited Laboratory. A copy of the Laboratory's Accreditation certificate is included in Appendix C.

The samples were analyzed for asbestos on a "positive-stop" basis by polarized light microscopy (PLM) in accordance with the "EPA Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116 July 1993). Analysis was performed by visually observing the bulk samples with a stereoscope followed by slide preparation(s) for microscopic examination and identification.

Using a stereoscope, the microscopist visually estimated relative amounts of each constituent by determining the volume of each constituent in proportion to the total volume of the sample. Next, the samples were mounted on slides and then analyzed for asbestos (chrysotile, amosite, crocidolite, anthophyllite, actinolite/tremolite), and fibrous non-asbestos constituents (mineral wool, fiberglass, cellulose, etc.). Asbestos was identified by refractive indices, morphology, color, pleochroism, birefringence, extinction characteristics, and signs of elongation. The same characteristics were used to identify the non-asbestos constituents.

The EPA method allows samples which are visually determined to have less than 10% asbestos to be quantified using a Point Count procedure. An ocular reticule (cross hair or point array) is used to visually superimpose a point or points on the microscope field of view. A total of 400 points superimposed on either asbestos fibers or non-asbestos matrix material must be counted over at least eight different preparations of representative subsamples. If an asbestos fiber and matrix particle overlap so that a point is superimposed on their visual intersection, a point is scored for both categories. Point counting provides a quantification of the area percent asbestos. No samples were point counted for this survey.

### 4.3 LEAD-BASED PAINT SURVEY METHODOLOGY

#### Survey Methodology

JSK inspected all accessible areas of the subject property building. The survey was conducted in general accordance with HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (HUD 1995). The JSK inspector used an LPA-1 XRF Spectrum Analyzer manufactured by RMD to perform the LBP testing. The LPA-1 is an XRF spectral analyzing system for quantitative measurement of lead in paint on various substrates. In each interior area of the building, XRF testing was performed on representative components with painted, stained, or varnished surfaces. Representative components are considered those in the same room, type of component, substrate, and visible color of paint. The inspector also assessed the general condition of the painted surfaces, according to the following guidelines:

- Good indicates there is no damage to the paint
- Fair indicates that the paint is cracking but not peeling
- Poor indicates that the paint is cracked and peeling

#### Sampling Methodology

Paint containing greater than or equal to 1.0 mg/cm<sup>2</sup> (or 0.5 percent by weight) lead by XRF testing or by laboratory analysis is considered LBP. The JSK inspector operated the XRF device in “Quick Mode” for testing (standardized in accordance with the equipment instruction manual) and programmed the unit with an action level of 1.0 mg/cm<sup>2</sup>. In “Quick Mode,” the XRF device seeks the shortest time period to assure a definitive measurement with 95 percent confidence (2 sigma). The LPA-1 analyzer concludes a measurement once the 2-sigma confidence level is achieved, typically between 2 to 4 seconds, depending on the lead content.

XRF calibration checks against known LBP standards were performed on the LPA-1 according to the instrument’s operating guidelines. The quality control readings were used to monitor the performance of the LPA-1. The calibration-check readings were taken before testing began and after the testing was completed using a Standard Reference Material paint film, developed by the National Institute of Standards and Technology. All calibration check readings were within acceptable limits.

XRF testing values were collected by placing the LPA-1 scanner on the surface to be tested and exposing the paint film to gamma radiation. XRF analyzers are usually capable of penetrating up to 3/8 inch of paint to determine lead content. At the conclusion of each test, the shutter closes and the display on the control console shows the lead concentration in mg/cm<sup>2</sup> for manual tabulation. Test readings of 0.9 mg/cm<sup>2</sup> or below are negative for LBP. Test readings of 1.0 mg/cm<sup>2</sup> or above are positive for LBP.

There were no areas where XRF readings were inconclusive, therefore, no paint chip samples were collected for laboratory analysis.

Section 5.2 provides a summary of the LBP survey results for the facility

#### **4.4 OTHER HAZARDOUS MATERIALS SURVEY METHODOLOGY**

##### **Inspection Procedures**

JSK conducted a hazardous material inspection which included a visual inspection to determine the extent and identify hazardous materials. JSK visually inspected for and quantified chemicals found within the buildings, including but not limited to: cleaning chemicals, maintenance chemicals, paints, hydraulic equipment, above ground storage tanks, underground storage tanks, batteries, acids and photographic development; Polychlorinated Biphenyls (PCB) and mercury containing items (ballasts, fluorescent light bulbs, thermostats, smoke detectors, exit signs); blood borne pathogens containers and the identification and quantification of containers/storage vessels associated with the spaces.

No sampling was conducted for hazardous materials within the scope of this investigation.

## 5 FINDINGS

### 5.1 ASBESTOS RESULTS

JSK collected a total of 51 samples from 24 suspect homogenous materials (HM) from the subject property. Table 1 lists the materials that were sampled, along with the results of the inspection and laboratory analysis.

Laboratory analysis indicated the following ACMs at the subject property building:

- **Silver Roof Vent Coating (HM3)** located on the building roof.
- **9" by 9" brown vinyl floor tile with black mastic (HM7)** located all throughout the stairwell (on west side), and throughout Mezzanine Level and portions of the 3<sup>rd</sup> Floor.
- **Gray Pebble Pattern Resilient Sheet Flooring over Brown Vinyl Floor tiling with black mastic (HM10)** located in the Building Main Floor Corridor near Elevator.
- **9" by 9" White Vinyl Floor Tile with Black Mastic (HM18)** located in the Building Mezzanine Floor, Office Space
- **12" by 12" White Mottled Vinyl Floor Tile with Black Mastic and Gray/White Leveling Compound (HM19) (only the black mastic was found to be asbestos-containing)**, located throughout the building 2<sup>nd</sup> floor.
- **9" by 9" Green Vinyl Floor Tile with Black Mastic (HM20)** located throughout the Building stairwell on East Side.
- **Tan carpet glue with black mastic (HM21)** located throughout the Building 3<sup>rd</sup> floor Office Areas.
- **White Setting Bed with Black Mastic (HM22)** located in the Building 3<sup>rd</sup> Floor Break Room on West Side and throughout the 3<sup>rd</sup> floor office areas.
- **12" by 12" Gray/Black Specs Vinyl Floor Tile with Yellow Mastic over Gray Vinyl Floor Tile with Black Mastic over Gray Vinyl Floor Tile with Yellow Mastic over Cream Resilient Floor Sheet with Black Mastic (HM23), (only the black mastic was found to be asbestos-containing)**, located in the Building 3<sup>rd</sup> Floor Office Space on Northwest Corner.
- **Gray Interior Window Glazing (HM24)** located in the interior windows on the 3<sup>rd</sup> floor and throughout the building.

As evidenced from the above results, the black mastic that is present in the flooring throughout the building was found to be asbestos containing. In many locations the flooring has been built up over the years when renovation activities were conducted and the mastic is found within those layers.

JSK did not observe any assumed ACMs within the facility.

The "Report of Bulk Sample Analysis for Asbestos", Sample Location diagram and Photographs are included in the Appendices. Table 1 on the following pages list the suspect asbestos-containing materials observed throughout the building that will be impacted by the demolition operations. Table 1 lists the materials that were sampled, along with the results of the inspection and laboratory analysis. The table also gives a description of the materials, their general locations, condition, friability, EPA NESHAP Category, and estimated quantity for abatement.

## Inaccessible Areas

JSK did not encounter any inaccessible areas.

## Regulatory Guidelines

**ACM Definition** - The EPA & OSHA consider a material to be asbestos-containing if at least one sample from the homogeneous area shows asbestos in an amount greater than 1%.

**Point Count Quantification** - If a material is found to contain less than 10% asbestos via visual estimation, it can be treated as non-ACM per EPA Regulations, if verified to contain 1% or less asbestos by the Point Count Quantification Procedure. If not point counted, a sample in which asbestos was visually detected and estimated (including trace to  $\leq 1\%$ ) must be assumed to be greater than 1% and treated as ACM. Please refer to the laboratory analyses for a more detailed description of the microscopic analysis of individual samples. No samples were quantified by the Point Count Procedure in this Asbestos Survey.

**EPA NESHAP Category** - EPA classifies ACM into the following categories:

- **RACM** is any (a) Friable asbestos material, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.
- **Category I Non-friable ACM** includes packings, gaskets, resilient floor covering, and asphalt roofing products which contain more than one percent asbestos.
- **Category II Non-friable ACM** includes any material, except for a Category I non-friable ACM, which contains more than one-percent asbestos and cannot be reduced to a powder by hand pressure when dry.

**OSHA** – OSHA requires all suspect materials to be analyzed by layer, even materials such as drywall/joint compound, which may sometimes be composited per the EPA. If any layer contains asbestos in a concentration  $>1\%$ , the material is considered an ACM.

OSHA has a classification system (I thru IV) for ACM depending on the type of material and the disturbance as follows:

- **'Class I'** work is defined as activities involving the removal of ACM or presumed ACM (PACM) that is thermal system insulation (TSI) and surfacing materials.
- **'Class II'** activities involve removal of ACM/PACM other than TSI or surfacing material.
- **'Class III'** work includes repair and maintenance operations which are likely to disturb ACM/PACM.
- **'Class IV'** work includes maintenance and custodial activities during which employees contact but do not disturb ACM/PACM.

Materials where asbestos is detected, but where point counting is conducted and determined that the concentration is  $\leq 1\%$  asbestos, are not considered to be ACM by OSHA. However, these materials are considered unclassified asbestos work per OSHA. Some OSHA work control practices and prohibitions will still apply, with the extent

depending on whether the worker's exposure to airborne asbestos exceeds the OSHA permissible exposure limit (PEL).

Additional details of the OSHA asbestos regulations related to the construction industry can be found in 29 CFR part 1926.1101.

## **Quantification**

Quantification of suspect asbestos-containing materials was conducted using visual estimation by a licensed asbestos inspector. This visual estimation was performed in accordance with generally accepted practices in the asbestos industry based on materials that were accessible and exposed. These values are sufficiently accurate for the purpose of documenting the presence of asbestos within its space for the purpose of identifying abatement control conditions or for general policy considerations. Actual quantities may differ between visually estimated values and physical measurements. If a licensed asbestos abatement contractor is engaged to remove asbestos containing materials, the abatement contractor is responsible for verifying reported quantities of ACM.

**TABLE 1 – SUSPECT ACMs SAMPLED – Commercial Office Building, 3108 Columbia Pike, Arlington, VA 22004**

<b>HM NUMBER (SAMPLE NUMBERS)</b>	<b>MATERIAL DESCRIPTION</b>	<b>MATERIAL SAMPLE LOCATION</b>	<b>F/NF<sup>1</sup></b>	<b>COND.<sup>2</sup></b>	<b>% ASBESTOS &amp; TYPE<sup>3</sup></b>	<b>EPA NESHAP CAT<sup>4</sup></b>	<b>ESTIMATED QUANTITY</b>
HM 1 (HM1-1 to HM1-2)	Built up Roof Field	Building Roof	NF	Good	NAD	N/A	N/A
HM 2 (HM2-1 to HM2-2)	White/Black Curbing/Flashing	Building Roof	NF	Good	NAD	N/A	N/A
<b>HM 3 (HM3-1 to HM3-2)</b>	<b>Silver Roof Vent Coating</b>	<b>Building Roof</b>	<b>NF</b>	<b>Good</b>	<b>3% CH</b>	<b>Cat I NF</b>	<b>25 SF</b>
HM 4 (HM4-1 to HM4-2)	Black Vent Pipe Mastic	Building Roof	NF	Good	NAD	N/A	N/A
HM 5 (HM5-1 to HM5-3)	Gray Spray-on Fire Proofing	Building Basement, Boiler Room, Corridor, Electrical Room	F	Good	NAD	N/A	N/A
HM 6 (HM6-1 to HM6-2)	Cream Pipe Insulation Mastic	Building Basement, Boiler Room, Corridor	NF	Good	NAD	N/A	N/A
<b>HM 7 (HM7-1 to HM7-2)</b>	<b>9" by 9" brown vinyl floor tile with black mastic</b>	<b>Building Stairwell, west side; Present all throughout stairwell and throughout Mezzanine Level and portions of 3rd Floor</b>	<b>NF</b>	<b>Good</b>	<b>VFT: 3% CH Mastic: 5% CH</b>	<b>Cat I NF</b>	<b>3,200 SF</b>
HM 8 (HM8-1 to HM8-2)	Gray HVAC Duct Seam Mastic	Building Basement, HVAC Room Number 1	NF	Good	NAD	N/A	N/A
HM 9 (HM9-1 to HM9-2)	Black/Gray/Yellow Mastic	Building Elevator	NF	Good	NAD	N/A	N/A



**TABLE 1 – SUSPECT ACMs SAMPLED – Commercial Office Building, 3108 Columbia Pike, Arlington, VA 22004**

HM NUMBER (SAMPLE NUMBERS)	MATERIAL DESCRIPTION	MATERIAL SAMPLE LOCATION	F/NF <sup>1</sup>	COND. <sup>2</sup>	% ASBESTOS & TYPE <sup>3</sup>	EPA NESHAP CAT <sup>4</sup>	ESTIMATED QUANTITY
HM 10 (HM10-1 to HM10-2)	Gray Pebble Pattern Resilient Sheet Flooring (RSF) over Brown Vinyl Floor tiling with black mastic	Building Main Floor, Corridor near Elevator	NF	Good	RSF: 50% CH VFT: 3% CH Mastic: 4% CH	Cat I NF	250 SF
HM 11 (HM11-1 to HM11-3)	Plaster Gray Base White Skim Coat on Wall	Building Main Floor, Corridor near Elevator, and throughout West Side Stairwell	F	Good	NAD	N/A	N/A
HM 12 (HM12-1 to HM12-2)	12" by 12" Gray Mottled Vinyl Floor Tile with Tan Mastic	Building Main Floor, Flooring in Office Area on West Side of Building	NF	Good	NAD	N/A	N/A
HM 13 (HM13-1 to HM13-2)	4" Gray Vinyl Cove Base with Gray Mastic	Building Main Floor, Flooring in Office Area on West Side of Building	NF	Good	NAD	N/A	N/A
HM 14 (HM14-1 to HM14-2)	Gray Sink Bowl Coating	Building Main Floor, Break Room on West Side, 2nd floor, Break Room on East Side	NF	Good	NAD	N/A	N/A
HM 15 (HM15-1 to HM15-2)	4" Brown Vinyl Cove Base with Brown Mastic	Building Main Floor, Flooring in Some of the Office Area on West Side of Building, and the Central Customer Area	NF	Good	NAD	N/A	N/A

**TABLE 1 – SUSPECT ACMs SAMPLED – Commercial Office Building, 3108 Columbia Pike, Arlington, VA 22004**

HM NUMBER (SAMPLE NUMBERS)	MATERIAL DESCRIPTION	MATERIAL SAMPLE LOCATION	F/NF <sup>1</sup>	COND. <sup>2</sup>	% ASBESTOS & TYPE <sup>3</sup>	EPA NESHAP CAT <sup>4</sup>	ESTIMATED QUANTITY
HM 16 (HM16-1 to HM16-2)	Brown/Tan/Black Floor Mastic	Building Main Floor, Main Customer Area	NF	Good	NAD	N/A	N/A
HM 17 (HM17-1 to HM17-3)	White Drywall with Associated White Joint Compound	Building Main Floor, 2nd Floor, 3rd Floor (Throughout all Building Floors)	F	Good	NAD	N/A	N/A
HM 18 (HM18-1 to HM18-2)	9" by 9" White Vinyl Floor Tile with Black Mastic	Building Mezzanine Floor, Office Space	NF	Good	VFT: 2% CH Mastic: 3% CH	Cat I NF	200 SF
HM 19 (HM19-1 to HM19-2)	12" by 12" White Mottled Vinyl Floor Tile with Black Mastic and Gray/White Leveling Compound	Building 2 <sup>nd</sup> Floor (Throughout the entire 2 <sup>nd</sup> Floor office space)	NF	Good	VFT: NAD Mastic: 5% CH Leveling Compound: NAD	Cat I NF	4,800 SF
HM 20 (HM20-1 to HM20-2)	9" by 9" Green Vinyl Floor Tile with Black Mastic	Building stairwell on East Side (Throughout stairwell)	NF	Good	VFT: 2% CH Mastic: 4% CH	Cat I NF	450 SF
HM 21 (HM21-1 to HM21-2)	Tan carpet glue with black mastic	Building 3rd floor, Throughout the offices	NF	Good	Mastic: 4% CH	Cat I NF	2,500 SF
HM 22 (HM22-1 to HM22-2)	White Setting Bed with Black Mastic	Building 3rd Floor, Break Room on West Side (Throughout 3rd floor Office Areas)	NF	Good	Mastic: 5% CH	Cat I NF	2,250 SF
HM 23 (HM23-1 to HM23-2)	12" by 12" Gray/Black Specs Vinyl Floor Tile with Yellow Mastic over Gray Vinyl Floor Tile	Building 3rd Floor, Office Space on Northwest Corner	NF	Good	RSF: 60% CH Mastic: 4% CH	Cat I NF	350 SF

<b>TABLE 1 – SUSPECT ACMs SAMPLED – Commercial Office Building, 3108 Columbia Pike, Arlington, VA 22004</b>							
<b>HM NUMBER (SAMPLE NUMBERS)</b>	<b>MATERIAL DESCRIPTION</b>	<b>MATERIAL SAMPLE LOCATION</b>	<b>F/NF<sup>1</sup></b>	<b>COND.<sup>2</sup></b>	<b>% ASBESTOS &amp; TYPE<sup>3</sup></b>	<b>EPA NESHAP CAT<sup>4</sup></b>	<b>ESTIMATED QUANTITY</b>
	<b>with Black Mastic over Gray Vinyl Floor Tile with Yellow Mastic over Cream Resilient Sheet Flooring with Black Mastic</b>	<b>(Four Layers of Flooring)</b>					
<b>HM 24 (HM24-1 to HM24-2)</b>	<b>Gray Interior Window Glazing</b>	<b>Throughout Building</b>	<b>F</b>	<b>Poor</b>	<b>Glazing: 3% CH</b>	<b>RACM</b>	<b>80 windows</b>

<sup>1</sup> F = Friable; NF = Non-friable.

<sup>2</sup> Cond. = Condition of Materials: Either good, dam = damaged., sig. dam. = significant damage

<sup>3</sup> NAD = No Asbestos Detected, Ch = Chrysotile, Am = Amosite, DW = Drywall; JW = Joint Compound; VFT = Vinyl Floor Tile; CB = Cove Base; CFT = Ceramic Floor Tile; CWT = Ceramic Wall Tile; LCT = Lay-in Ceiling Tile; RSF = Resilient Sheet Flooring; LF = Linear Feet; SF = Square Feet.

<sup>4</sup> NESHAP Category - Regulated ACM (RACM), Cat I NF=Category I Non-Friable ACM, Cat II NF= Category II Non-Friable ACM.

Sample identification is the HM Number followed by the Sample Number (e.g. HM1 (1-1 to 1-3))

## 5.2 LBP SCREENING RESULTS

JSK visually inspected and tested representative painted, stained, or varnished structural building components accessible at the subject property Building. A total of 132 XRF readings, including calibrations, were performed. This survey was limited in nature and was not intended to be a comprehensive survey of all the painted components within the facility. The condition of the painted surfaces was found to be generally in an intact condition. LBP was detected in just one exterior surface tested within the building.

Painted surfaces were tested using an XRF instrument operated in “Quick Mode.” XRF test readings of 0.9 milligram per square centimeter ( $\text{mg}/\text{cm}^2$ ) or below are negative for lead-based paint. XRF test readings of  $1.0 \text{ mg}/\text{cm}^2$  or above are positive for lead-based paint. Painted surfaces testing greater than  $1 \text{ mg}/\text{cm}^2$  (or 0.5 percent by weight) are considered to be lead-based by USEPA, HUD, and IDPH. XRF test results are included in Appendix C.

As part of the Limited LBP Inspection, painted surfaces were visually examined for general condition and were generally categorized as being in intact or deteriorated condition. The condition of the painted surfaces was found to be generally in an intact condition. However, the exterior painted surfaces were generally in a deteriorated condition. The results of the XRF survey are discussed in more details in Section 5.2. A total of nine (9) XRF readings of component coatings, from the structures, tested had XRF readings equal to or greater than the “positive” classification of  $1.0 \text{ mg}/\text{cm}^2$ . Of these, two were interior components and the remaining 7 were exterior component surfaces. This is summarized below:

### Interior Readings

- Cream wooden stair riser in the stairwell on the east side leading from the 1<sup>st</sup> floor to the 2<sup>nd</sup> floor: Reading of  $5.8 \text{ mg}/\text{cm}^2$ . The paint on this was in a deteriorated condition (10%).
- Cream metal stair riser in the stairwell on the east side leading from the 2<sup>nd</sup> floor to the 3<sup>rd</sup> floor: Reading of  $3.4 \text{ mg}/\text{cm}^2$ . The paint on this was in an intact condition.

### Exterior Readings

- White metal column at the building rear entrance: Reading of  $1.3 \text{ mg}/\text{cm}^2$ . The paint on this was in a deteriorated condition (10%).
- Cream metal I-beam at the building rear entrance: Reading of  $1.7 \text{ mg}/\text{cm}^2$ . The paint on this was in a deteriorated condition (25%).
- Cream metal I-beam at the building front entrance: Reading of  $1.8 \text{ mg}/\text{cm}^2$ . The paint on this was in a deteriorated condition (10%).
- White metal window lintel at the building front entrance: Reading of  $2.1 \text{ mg}/\text{cm}^2$ . The paint on this was in an intact condition.
- White metal column at the building front entrance: Reading of  $1.3 \text{ mg}/\text{cm}^2$ . The paint on this was in a deteriorated condition (20%).
- Cream metal door casing at the building side entrance (East side): Reading of  $1.2 \text{ mg}/\text{cm}^2$ . The paint on this was in a deteriorated condition (10%).
- Cream metal door lintel at the building side entrance (East side): Reading of  $1.7 \text{ mg}/\text{cm}^2$ . The paint on this was in a deteriorated condition (5%).

## Regulatory Guidelines

### LBP Definition –

The EPA and HUD defines "lead-based paint" as any "paint, surface coating that contains lead equal to or exceeding one milligram per square centimeter (1.0 mg/cm<sup>2</sup>) or 0.5% lead by weight."

### EPA – Renovation, Repair and Painting Program

EPA's Lead Renovation, Repair and Painting Rule (RRP Rule) requires that firms performing renovation, repair, and painting projects that disturb lead-based paint in homes, child care facilities and pre-schools built before 1978 have their firm certified by EPA (or an EPA authorized state), use certified renovators who are trained by EPA-approved training providers and follow lead-safe work practices.

### OSHA –

The current OSHA standard (29 CFR 1926.62) for lead exposure in construction has a permissible exposure limit (PEL) of 50 micrograms per cubic meter of air (50 µg/m<sup>3</sup>), measured as an 8-hour time-weighted average (TWA). As with all OSHA health standards, when the PEL is exceeded, the hierarchy of controls requires employers to institute feasible engineering and work practice controls as the primary means to reduce and maintain employee exposures to levels at or below the PEL. When all feasible engineering and work practice controls have been implemented but have proven inadequate to meet the PEL, employers must nonetheless implement these controls and must supplement them with appropriate respiratory protection. The employer also must ensure that employees wear the respiratory protection provided when it is required.

### HUD –

The *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (2012 Edition)* enforce HUD's vision to reduce hazards in housing in a cost-effective manner while protecting the health of children. These guidelines are used by those who are required to identify and control lead paint hazards, as well as property owners, landlords, and child-care center operators. Helpful advice on renovations in older housing, lead-based paint inspections and risk assessments, and where to go for help can be found in the guidelines. The guidelines also outline what users have to do to meet requirements and recommendations; identify training – and if applicable, certification – required for people who conduct the work; and describe how the work should be done.

## 5.3 OTHER HAZARDOUS MATERIALS SURVEY RESULTS

A visual survey for hazardous materials was performed to determine the presence and locations of suspect hazardous materials in the subject building. No materials were found to be suspect within the interior of the subject property.

## Regulatory Guidelines

### Hazard Materials Definition –

By definition, EPA determined that some specific wastes are hazardous. These wastes are incorporated into lists published by the EPA. These lists are organized into three categories:

1. The F-list (non-specific source wastes). This list identifies wastes from common manufacturing and industrial processes, such as solvents that have been used in cleaning or degreasing operations. Because the processes producing these wastes can occur in different sectors of industry, the F-listed wastes are known as wastes from non-specific sources. Wastes included on the F-list can be found in the regulations at 40 CFR §261.31.
2. The K-list (source-specific wastes). This list includes certain wastes from specific industries, such as petroleum refining or pesticide manufacturing. Certain sludges and wastewaters from treatment and production processes in these industries are examples of source-specific wastes. Wastes included on the K-list can be found in the regulations at 40 CFR §261.32.
3. The P-list and the U-list (discarded commercial chemical products). These lists include specific commercial chemical products in an unused form. Some pesticides and some pharmaceutical products become hazardous waste when discarded. Wastes included on the P- and U-lists can be found in the regulations at 40 CFR §261.33.

Waste that have not been specifically listed may still be considered a hazardous waste if exhibits one of the four characteristics defined in 40 CFR Part 261 Subpart C - ignitability (D001), corrosivity (D002), reactivity (D003), and toxicity (D004 - D043).

1. Ignitability - Ignitable wastes can create fires under certain conditions, are spontaneously combustible, or have a flash point less than 60 °C (140 °F). Examples include waste oils and used solvents.
2. Corrosivity - Corrosive wastes are acids or bases (pH less than or equal to 2, or greater than or equal to 12.5) that are capable of corroding metal containers, such as storage tanks, drums, and barrels.
3. Reactivity - Reactive wastes are unstable under "normal" conditions. They can cause explosions, toxic fumes, gases, or vapors when heated, compressed, or mixed with water.

Toxicity - Toxic wastes are harmful or fatal when ingested or absorbed (e.g., containing mercury, lead, etc.). When toxic wastes are land disposed, contaminated liquid may leach from the waste and pollute ground water. Toxicity is defined through a laboratory procedure called the Toxicity Characteristic Leaching Procedure (TCLP) (Method 1311). The TCLP helps identify wastes likely to leach concentrations of contaminants that may be harmful to human health or the environment.

### Polychlorinated Biphenyls (PCB's)

- A visual inspection of a “representative number” of light fixtures and ballasts, and inspection for transformers, hydraulic lifts, etc. was performed to determine the possible presence of PCBs. The visual

inspection was conducted with a Phillips Advanced handheld ballast checker, which indicates whether a ballast is magnetic or electronic. The device is aimed at the light fixture and the LED turns green if the light source is powered by an electronic ballast; or turns orange if powered by an electromagnetic ballast. Electronic ballasts are non-PCB so they can be immediately ruled-out as suspect PCBs. The electromagnetic ballasts may or may not contain PCBs and are considered to be suspect PCB-containing.

## Mercury

- A visual inspection was performed for the purpose of identifying the potential presence, location and estimated quantity of fluorescent light bulbs, mercury thermostats and exit signs. During the assessment, JSK observed and quantified suspect mercury bulbs and mercury vapor lamps associated with fluorescent light fixtures. No sampling was performed of the lamps or bulbs. Reportable quantities of mercury are often found in fluorescent lamps, high intensity discharge lamps and thermostats. Because of this fact, the fluorescent lamps found at the site should be considered a hazardous waste for mercury under the Resource Conservation and Recovery Act (RCRA); 40 CFR 261. Unless Toxic Characteristic Leachate Procedure (TCLP) testing for mercury is performed, the light tubes located at the property should be assumed to exceed the regulatory limit of 0.2 milligrams per liter for mercury. These tubes must be disposed of as mercury containing waste unless testing proves otherwise.

A summary of the hazardous materials and chemicals found at the facility is as follows.

<b>Material</b>	<b>Observed Yes/No</b>	<b>Estimated Quantity</b>	<b>General Location</b>
PCB Fluorescent Light Ballasts	No	N/A	N/A
Fluorescent Light Bulbs	Yes	Main level: 140 Mezzanine: 90 2 <sup>nd</sup> Floor: 90 3 <sup>rd</sup> Floor: 92 Basement: 12	Throughout the subject property on all 3 floors and mezzanine area.
Fire Extinguishers	Yes	Main level: 3 Mezzanine: 4 2 <sup>nd</sup> Floor: 4 3 <sup>rd</sup> Floor: 4 Basement: 3	Throughout the subject property on all 3 floors and mezzanine area.
Pull-down switches		Main level: 3 Mezzanine: 3 2 <sup>nd</sup> Floor: 3 3 <sup>rd</sup> Floor: 2 Basement: 2	Throughout the subject property on all 3 floors and mezzanine area.
Mercury Vapor Lights	No	N/A	N/A
Household Cleaning Chemicals, commercially available	Yes	Few spray bottles	Mostly in the janitorial closet on the Mian level
Wall-mounted radiator units	Yes	About 25	Mostly on the 3 <sup>rd</sup> floor of the Building.
Miscellaneous paint cans and primers	Yes	About 15	Basement

<b>Table 2: Hazardous Materials Summary – Commercial Office Building, 3108 Columbia Pike, Arlington, VA 22004</b>			
<b>Material</b>	<b>Observed Yes/No</b>	<b>Estimated Quantity</b>	<b>General Location</b>
Mercury Thermostats/ Thermometers	Yes	Twp	Building Main Level
Smoke Detectors	Yes	Main level: 4 Mezzanine: 1 2 <sup>nd</sup> Floor: 4 3 <sup>rd</sup> Floor: 0 Basement:	Throughout the subject property on all 3 floors and mezzanine area.
Motion Sensors	Yes	Main level: 1 Mezzanine: 6 2 <sup>nd</sup> Floor: 6 3 <sup>rd</sup> Floor: 6 Basement: 0	Throughout the subject property on all 3 floors and mezzanine area.
Fire/Emergency Lighting	Yes	Main level: 4 Mezzanine: 3 2 <sup>nd</sup> Floor: 5 3 <sup>rd</sup> Floor: 4 Basement: 2	Throughout the subject property on all 3 floors and mezzanine area.
Fire Alarm System	Yes	1	One in the Building Main Level
Domestic Water Heater	Yes	1	Basement of the Building
Old CRT Monitor	Yes	1	One in the Building Main Level



## 6 CONCLUSIONS & RECOMMENDATIONS

### 6.1 CONCLUSIONS

#### Asbestos

ACM was found throughout the 3 floors and mezzanine, and on the roof of the subject property building that will be impacted by the demolition operations.

JSK did not observe any assumed ACMs within the subject property Building.

Materials with low concentrations of asbestos (trace to 1%) were not identified in the subject property Building.

#### Lead-Based Paint Screening

Lead was detected above the regulatory level for an LBP in paint tested in the subject property Building that will be impacted by the demolition operations.

#### PCB Caulking

Samples for PCB caulking and sealants were not collected within the subject property building. As indicated earlier, JSK observed that the windows and the wooden window frames did not have any caulking around them. Therefore, no caulk samples were collected for analysis of PCB's.

#### Suspect Hazardous Materials

Some hazardous materials were identified in the Subject Property Building that will be impacted by the demolition operations.

### 6.2 RECOMMENDATIONS

The following recommendations are provided for the Asbestos, LBP or other Hazardous Materials that were detected or identified during this investigation.

#### Asbestos

JSK found asbestos containing materials during the survey. The identified regulated ACM (RACM) and Cat I and Cat II Non-Friable ACM should be maintained in a good non-damaged condition until the building is demolished.

The identified RACM and other materials containing asbestos (Cat I and Cat II Non-Friable) must be properly removed by a licensed asbestos abatement contractor prior to renovations or demolition that would disturb the material. Federal, State and Local regulations and guidelines should be strictly adhered to when removing the ACM.

Prior to any future maintenance, renovation, or demolition activities, and newly discovered suspect ACMs or previously identified materials that were not sampled in the renovation location should be tested. Any areas that were noted as being inaccessible during this project or any concealed areas, such as behind walls, where suspect ACMs are discovered, will require a survey for ACM.

Prior to the initiation of a project that would involve abatement, a detailed engineering cost estimate and project design is recommended. The engineering cost estimate will incorporate such variables as scheduling and phasing of the project, the size, and extent of the project, seasonal factors, operation factors, and other restrictions, respiratory protection, alternate abatement options, and type of replacement material. An engineering cost estimate would also include professional fees, such as for project design and management, and other expenses, such as on-site air monitoring and construction supervision.

If, during demolition or renovation activities, previously unidentified suspect ACMs are discovered in concealed areas, such as behind walls, they should be sampled for asbestos, or they must be treated as ACM.

### **Lead Paint**

Several approaches can be taken when dealing with LBP and leaded coatings that are intact and in good condition. LBP/leaded coatings can be removed, encapsulated, or enclosed. Worker protection and construction of an airtight containment around the work site, with few exceptions, are required where there is a disturbance. Depending on the abatement technique, airborne lead concentrations may be generated that may exceed the OSHA Lead in Construction Standard (29 CFR 1926.62).

Waste resulting from LBP coated component removal or removal of LBP by chemical stripping/mechanical removal is likely to result in the requirement for disposal in a hazardous waste facility. All lead paint and debris, whether from chemical or mechanical removal from its substrate, or whole component removal, must be tested to determine proper disposal. Waste characterization testing should be performed on all materials prior to making a disposal decision. Materials that are to be disposed of should be tested by the Toxicity Characteristic Leachate Procedure (TCLP) per EPA requirements to determine disposal requirements.

Note: OSHA regulates workers exposure to lead paint concentrations in any detectable amount. Therefore, in order to satisfy OSHA requirements, worker protection and monitoring may be required for work activities that disturb paints that contain lead in any amount. In accordance with the OSHA Construction Standard for Lead (29 CFR 1926.62), it is the contractors' responsibility to protect their workers when an employee may be occupationally exposed to lead.

### **PCB Caulking**

Based on the findings of this assessment, no further action is required for PCBs at the Subject Property.

### **Other Hazardous Materials**

JSK recommends disposing the hazardous materials identified on the site in accordance with applicable regulations. Any unknown containers present on the site need to be verified through testing followed by proper disposal in accordance with applicable regulations.



## **APPENDIX A – REPORT OF BULK SAMPLE ANALYSIS FOR ASBESTOS AND CHAIN OF CUSTODY**

**Certificate of Analysis**

JSK Environmental Services, LLC  
 13130 Peach Leaf Place  
 Fairfax, VA 22030  
 Attn: Nand Kaushik  
**Client Project Name: 22204**



Date Collected: 05/23/22  
 Date Received: 05/23/22  
 Date Analyzed: 05/26/22  
 Date Reported: 05/27/22  
 Project ID: 22018937

**Test Requested: 3002, Asbestos in Bulk Samples**

Method: Polarized Light Microscopy (PLM): EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample; Additional Comments	Homo- geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
HM1-1	22018937-001a	Coated Black Tarry Semi-Fibrous Material	Yes	1	35	ND1	ND1	SYN (15) FBG (10)	75	T, C, B, OP
	22018937-001b	Black Tarry Semi-Fibrous Material	Yes	1	35	ND1	ND1	SYN (10) FBG (10) CELL (5)	75	T, C, B, OP
	22018937-001c	Grey Fibrous Material	Yes	1	10	ND1	ND1	CELL (60) FBG (15)	25	C, OP, Foam
	22018937-001d	White Semi-Fibrous Material	Yes	1	20	ND1	ND1	FBG (20)	80	C, OP, G
HM1-2	22018937-002a	Coated Black Tarry Semi-Fibrous Material	Yes	1	30	ND1	ND1	SYN (15) FBG (20)	65	T, C, B, OP
	22018937-002b	Black Tarry Semi-Fibrous Material	Yes	1	30	ND1	ND1	SYN (15) FBG (10) CELL (5)	70	T, C, B, OP
	22018937-002c	Grey Fibrous Material	Yes	1	10	ND1	ND1	CELL (60) FBG (15)	25	C, OP, Foam
	22018937-002d	White Semi-Fibrous Material	Yes	1	30	ND1	ND1	FBG (20)	80	C, OP, G
HM2-1	22018937-003a	Coated Black Tarry Semi-Fibrous Material	Yes	1	30	ND1	ND1	SYN (10) FBG (15)	75	T, C, B, OP
	22018937-003b	Black Tarry Semi-Fibrous Material	Yes	1	70	ND1	ND1	SYN (10) FBG (10) CELL (3)	77	T, C, B, OP

*Ashley Dodson*  
 Ashley Dodson  
 Laboratory Analyst

*Cathleen Piccione*  
 Cathleen Piccione  
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**Test Requested: 3002, Asbestos in Bulk Samples**

Method: Polarized Light Microscopy (PLM): EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample; Additional Comments	Homo- geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
HM2-2	22018937-004a	Coated Black Tarry Semi-Fibrous Material	Yes	1	30	ND1	ND1	SYN (15) FBG (15)	70	T, C, B, OP
	22018937-004b	Black Tarry Semi-Fibrous Material	Yes	1	70	ND1	ND1	SYN (10) FBG (10) CELL (3)	77	T, C, B, OP
HM3-1	<b>22018937-005</b>	<b>Silver Paint</b>	<b>Yes</b>	<b>1</b>	<b>100</b>	<b>3</b>	<b>ND1</b>	<b>CELL (2)</b>	<b>95</b>	<b>T, C, B, OP</b>
HM3-2	22018937-006	Not Analyzed - Prior Positive								
HM4-1	22018937-007	Black Mastic	Yes	1	100	ND1	ND1		100	T, C, B, OP
HM4-2	22018937-008	Black Mastic	Yes	1	100	ND1	ND1	FBG (1)	99	T, C, B, OP
HM5-1	22018937-009	Grey Fibrous Material	Yes	1	100	ND1	ND1	MW (40)	60	C, OP
HM5-2	22018937-010	Grey Fibrous Material	Yes	1	100	ND1	ND1	MW (40)	60	C, OP
HM5-3	22018937-011	Grey Fibrous Material	Yes	1	100	ND1	ND1	MW (40)	60	C, OP
HM6-1	22018937-012	Off-White Mastic	Yes	1	100	ND1	ND1	WO (3) MW (3)	94	C, B, OP

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**Test Requested: 3002, Asbestos in Bulk Samples**

Method: Polarized Light Microscopy (PLM): EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample; Additional Comments	Homo- geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
HM6-2	22018937-013	Off-White Mastic	Yes	1	100	ND1	ND1	WO (3) MW (2)	95	C, B, OP
HM7-1	<b>22018937-014a</b>	<b>Brown Floor Tile</b>	<b>Yes</b>	<b>1</b>	<b>95</b>	<b>3</b>	<b>ND1</b>		<b>97</b>	<b>C, B, OP</b>
	<b>22018937-014b</b>	<b>Black Mastic</b>	<b>Yes</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>ND1</b>		<b>95</b>	<b>T, C, B, OP</b>
HM7-2	22018937-015	Not Analyzed - Prior Positive								
HM8-1	22018937-016	Grey Mastic	Yes	1	100	ND1	ND1		100	C, B, OP
HM8-2	22018937-017	Grey Mastic	Yes	1	100	ND1	ND1		100	C, B, OP
HM9-1	22018937-018a	Yellow and Dark Grey Mastic	Yes	1	40	ND1	ND1	CELL (2) SYN (1)	97	C, B, OP
	22018937-018b	Grey Non-Fibrous Material	Yes	1	60	ND1	ND1		100	C, B, OP, G
HM9-2	22018937-019a	Yellow and Dark Grey Mastic	Yes	1	25	ND1	ND1	CELL (2)	98	C, B, OP
	22018937-019b	Grey Non-Fibrous Material	Yes	1	75	ND1	ND1		100	C, B, OP, G

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**Test Requested: 3002, Asbestos in Bulk Samples**

Method: Polarized Light Microscopy (PLM); EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample; Additional Comments	Homo- geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
HM10-1	22018937-020a	Beige Sheet Flooring	Yes	1	25	ND1	ND1		100	C, B, OP
	22018937-020b	White Fibrous Backing	Yes	1	25	50	ND1	CELL (2)	48	C, OP
	22018937-020c	Brown Floor Tile	Yes	1	45	3	ND1		97	C, B, OP
	22018937-020d	Black Mastic	Yes	1	5	4	ND1		96	T, C, B, OP
HM10-2	22018937-021	Not Analyzed - Prior Positive								
HM11-1	22018937-022a	White Plaster	Yes	1	80	ND1	ND1		100	C, OP, G
	22018937-022b	Beige Plaster	Yes	1	20	ND1	ND1		100	P, Q, C, OP, G
HM11-2	22018937-023a	White Plaster	Yes	1	30	ND1	ND1		100	C, OP, G
	22018937-023b	Beige Plaster	Yes	1	70	ND1	ND1	CELL (2)	98	P, Q, C, OP, G

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**Test Requested: 3002, Asbestos in Bulk Samples**

Method: Polarized Light Microscopy (PLM): EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample; Additional Comments	Homo- geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
HM11-3	22018937-024a	White Plaster	Yes	1	20	ND1	ND1		100	C, OP, G
	22018937-024b	Beige Plaster	Yes	1	80	ND1	ND1	CELL (1)	99	P, Q, C, OP, G
HM12-1	22018937-025a	Grey Floor Tile	Yes	1	95	ND1	ND1		100	C, B, OP
	22018937-025b	Yellow Mastic	Yes	1	5	ND1	ND1	CELL (2)	98	C, B, OP
HM12-2	22018937-026a	Grey Floor Tile	Yes	1	95	ND1	ND1		100	C, B, OP
	22018937-026b	Yellow Mastic	Yes	1	5	ND1	ND1	CELL (3)	97	C, B, OP
HM13-1	22018937-027a	Brown Cove Base	Yes	1	95	ND1	ND1		100	C, B, OP
	22018937-027b	Light Yellow Mastic	Yes	1	5	ND1	ND1		100	C, B, OP
HM13-2	22018937-028a	Brown Cove Base	Yes	1	95	ND1	ND1		100	C, B, OP
	22018937-028b	Light Yellow Mastic	Yes	1	5	ND1	ND1		100	C, B, OP

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**Test Requested: 3002, Asbestos in Bulk Samples**

Method: Polarized Light Microscopy (PLM): EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample; Additional Comments	Homo- geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
HM14-1	22018937-029	Off-White Semi-Fibrous Material	Yes	1	100	ND1	ND1	CELL (20)	80	C, B, OP
HM14-2	22018937-030	Off-White Semi-Fibrous Material	Yes	1	100	ND1	ND1	CELL (20)	80	C, B, OP
HM15-1	22018937-031a	Grey Cove Base	Yes	1	90	ND1	ND1		100	C, B, OP
	22018937-031b	Brown Mastic	Yes	1	10	ND1	ND1		100	B, OP
HM15-2	22018937-032a	Grey Cove Base	Yes	1	90	ND1	ND1		100	C, B, OP
	22018937-032b	Brown Mastic	Yes	1	10	ND1	ND1		100	B, OP
HM16-1	22018937-033	Black and Yellow Mastic	Yes	1	100	ND1	ND1	SYN (2)	98	C, B, OP
HM16-2	22018937-034	Black and Yellow Mastic	Yes	1	100	ND1	ND1	CELL (1) SYN (1)	98	C, B, OP
HM17-1	22018937-035a	White Drywall	Yes	1	60	ND1	ND1	CELL (15) FBG (2)	83	C, OP, G
	22018937-035b	White Joint Compound	Yes	1	40	ND1	ND1		100	P, C, OP, M

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Sample Identification		Physical Description of Sample; Additional Comments	Homo- geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
HM17-2	22018937-036a	White Drywall	Yes	1	80	ND1	ND1	CELL (15) FBG (1)	84	C, OP, G
	22018937-036b	White Joint Compound	Yes	1	20	ND1	ND1		100	P, C, OP, M
HM17-3	22018937-037a	White Drywall	Yes	1	90	ND1	ND1	CELL (15)	85	C, OP, G
	22018937-037b	White Joint Compound	Yes	1	10	ND1	ND1		100	C, OP, M
HM18-1	<b>22018937-038a</b>	<b>White Floor Tile</b>	<b>Yes</b>	<b>1</b>	<b>95</b>	<b>2</b>	<b>ND1</b>		<b>98</b>	<b>C, B, OP</b>
	<b>22018937-038b</b>	<b>Black Mastic</b>	<b>Yes</b>	<b>1</b>	<b>5</b>	<b>3</b>	<b>ND1</b>		<b>97</b>	<b>T, C, B, OP</b>
HM18-2	22018937-039	Not Analyzed - Prior Positive								
HM19-1	22018937-040a	Off-White Floor Tile	Yes	1	80	ND1	ND1		100	C, B, OP
	<b>22018937-040b</b>	<b>Black Mastic</b>	<b>Yes</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>ND1</b>		<b>95</b>	<b>T, C, B, OP</b>
	22018937-040c	Grey and White Leveling Compound	Yes	1	15	ND1	ND1	CELL (3)	97	C, B, OP, G

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Sample Identification		Physical Description of Sample; Additional Comments	Homo- geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
HM19-2	22018937-041a	Off-White Floor Tile	Yes	1	80	ND1	ND1		100	C, B, OP
	<b>22018937-041b</b>	<b>Black Mastic</b>	<b>Yes</b>	<b>1</b>	<b>5</b>	<b>4</b>	<b>ND1</b>	<b>CELL (2)</b>	<b>94</b>	<b>T, C, B, OP</b>
	22018937-041c	Grey and White Leveling Compound	Yes	1	15	ND1	ND1	CELL (2)	98	C, B, OP, G
HM20-1	<b>22018937-042a</b>	<b>Green Floor Tile</b>	<b>Yes</b>	<b>1</b>	<b>95</b>	<b>2</b>	<b>ND1</b>		<b>98</b>	<b>C, B, OP</b>
	<b>22018937-042b</b>	<b>Black Mastic</b>	<b>Yes</b>	<b>1</b>	<b>5</b>	<b>4</b>	<b>ND1</b>		<b>96</b>	<b>T, C, B, OP</b>
HM20-2	22018937-043	Not Analyzed - Prior Positive								
HM21-1	<b>22018937-044</b>	<b>Black and Yellow Mastic</b>	<b>Yes</b>	<b>1</b>	<b>100</b>	<b>4</b>	<b>ND1</b>		<b>96</b>	<b>T, C, B, OP</b>
HM21-2	22018937-045	Not Analyzed - Prior Positive								
HM22-1	22018937-046a	White Non-Fibrous Material	Yes	1	95	ND1	ND1		100	Q, C, B, OP, G
	<b>22018937-046b</b>	<b>Black Mastic</b>	<b>Yes</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>ND1</b>		<b>95</b>	<b>T, C, B, OP</b>

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**Test Requested: 3002, Asbestos in Bulk Samples**

Method: Polarized Light Microscopy (PLM): EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample; Additional Comments	Homo- geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
HM22-2	22018937-047a	White Non-Fibrous Material	Yes	1	95	ND1	ND1	CELL (1)	99	Q, C, B, OP, G
	22018937-047b	<b>Black Mastic</b>	<b>Yes</b>	<b>1</b>	<b>5</b>	<b>4</b>	<b>ND1</b>	<b>CELL (1)</b>	<b>95</b>	<b>T, C, B, OP</b>

*Ashley Dodson*  
 Ashley Dodson  
 Laboratory Analyst

*Cathleen Piccione*  
 Cathleen Piccione  
 Technical Supervisor

- A = Amosite
- AC = Actinolite
- AN = Anthophyllite
- CR = Crocidolite
- TR = Tremolite
- ND1 = None Detected
- Trace = Less Than 1%
- CELL = Cellulose
- MW = Mineral Wool
- FBG = Fiberglass
- SYN = Synthetic
- WO = Wollastonite
- NTR = Non-Asbestiform TR
- NAC = Non-Asbestiform AC
- FT = Fibrous Talc
- AH = Animal Hair
- Q = Quartz
- C = Carbonates
- V = Vermiculite
- G = Gypsum
- M = Mica
- T = Tar
- P = Perlite
- O = Organic
- B = Binder
- OP = Opaques
- D = Diatoms

**Certificate of Analysis**

JSK Environmental Services, LLC  
 13130 Peach Leaf Place  
 Fairfax, VA 22030  
 Attn: Nand Kaushik  
**Client Project Name: 22204**



Date Collected: 05/23/22  
 Date Received: 05/23/22  
 Date Analyzed: 05/26/22  
 Date Reported: 05/27/22  
 Project ID: 22018937

**Test Requested: 3002, Asbestos in Bulk Samples**

Method: Polarized Light Microscopy (PLM): EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample; Additional Comments	Homo- geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
HM23-1	22018937-048a	Off-White Floor Tile	Yes	1	25	ND1	ND1		100	C, B, OP
	22018937-048b	Yellow Mastic	Yes	1	5	ND1	ND1	CELL (2)	98	C, B, OP
	22018937-048c	Off-White Floor Tile	Yes	1	15	ND1	ND1		100	C, B, OP
	22018937-048d	Clear Mastic	Yes	1	3	ND1	ND1		100	C, B, OP
	22018937-048e	Beige Floor Tile	Yes	1	25	ND1	ND1		100	C, B, OP
	22018937-048f	Yellow Mastic	Yes	1	5	ND1	ND1	CELL (2)	98	C, B, OP
	22018937-048g	Tan Sheet Flooring	Yes	1	7	ND1	ND1		100	C, B, OP
	<b>22018937-048h</b>	<b>Beige Fibrous Backing</b>	<b>Yes</b>	<b>1</b>	<b>10</b>	<b>60</b>	<b>ND1</b>	<b>CELL (1)</b>	<b>39</b>	<b>C, OP</b>
	<b>22018937-048i</b>	<b>Black Mastic</b>	<b>Yes</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>ND1</b>		<b>96</b>	<b>T, C, B, OP</b>
HM23-2	22018937-049	Not Analyzed - Prior Positive								

*Ashley Dodson*  
 Ashley Dodson  
 Laboratory Analyst

*Cathleen Piccione*  
 Cathleen Piccione  
 Technical Supervisor

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 CR = Crocidolite  
 TR = Tremolite  
 ND1 = None Detected  
 Trace = Less Than 1%

CELL = Cellulose  
 MW = Mineral Wool  
 FBG = Fiberglass  
 SYN = Synthetic  
 WO = Wollastonite  
 NTR = Non-Asbestiform TR  
 NAC = Non-Asbestiform AC  
 FT = Fibrous Talc  
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Q = Quartz  
 C = Carbonates  
 V = Vermiculite  
 G = Gypsum  
 M = Mica  
 T = Tar  
 P = Perlite  
 O = Organic  
 B = Binder  
 OP = Opaques  
 D = Diatoms

**Certificate of Analysis**

JSK Environmental Services, LLC  
 13130 Peach Leaf Place  
 Fairfax, VA 22030  
 Attn: Nand Kaushik  
**Client Project Name: 22204**



Date Collected: 05/23/22  
 Date Received: 05/23/22  
 Date Analyzed: 05/26/22  
 Date Reported: 05/27/22  
 Project ID: 22018937

**Test Requested: 3002, Asbestos in Bulk Samples**

Method: Polarized Light Microscopy (PLM): EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample; Additional Comments	Homo- geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
HM24-1	22018937-050	Grey Non-Fibrous Material	Yes	1	100	3	ND1		97	C, B, OP
HM24-2	22018937-051	Not Analyzed - Prior Positive								

*Ashley Dodson*  
 Ashley Dodson  
 Laboratory Analyst

*Cathleen Piccione*  
 Cathleen Piccione  
 Technical Supervisor

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- CR = Crocidolite
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- NAC = Non-Asbestiform AC
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- AH = Animal Hair
- Q = Quartz
- C = Carbonates
- V = Vermiculite
- G = Gypsum
- M = Mica
- T = Tar
- P = Perlite
- O = Organic
- B = Binder
- OP = Opaques
- D = Diatoms

### Certificate of Analysis

JSK Environmental Services, LLC  
13130 Peach Leaf Place  
Fairfax, VA 22030  
Attn: Nand Kaushik  
**Client Project Name: 22204**



Date Collected: 05/23/22  
Date Received: 05/23/22  
Date Analyzed: 05/26/22  
Date Reported: 05/27/22  
Project ID: 22018937

#### General Notes

- ◆ **NDI** indicates no asbestos was detected; the method detection limit is 1%.
- ◆ **Trace or "<1"** indicates asbestos was identified in the sample, but the concentration is less than 1% as determined by the minimum counting standards of CVE (calibrated visual estimate) or point counting. Due to the inherent uncertainty of the quantification techniques employed during analysis, verification of the results by a more accurate and precise method is recommended.
- ◆ All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the mineral grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- ◆ Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under the NESHAPS regulations.
- ◆ Samples identified as inhomogeneous (containing more than one layer) shall be divided into individual layers and each layer tested separately. The results for each individual layer shall be listed separately on the report.
- ◆ These results are submitted pursuant to Aerobiology's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- ◆ Aerobiology Laboratory shall be responsible for all the information provided in the report, except when information is provided by the customer. Aerobiology Laboratory is not responsible for the sampling activity. Data provided by a customer can affect the validity of results and shall be clearly identified. The report shall not be reproduced except in full without the approval of the laboratory to ensure that parts of a report are not taken out of context.
- ◆ Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory will store the samples for a minimum period of 3 months before discarding. A shipping and handling charge will be assessed for the return of any samples.
- ◆ This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- ◆ This test report relates only to the items tested or calibrated.
- ◆ This report is not valid unless it bears the name of a NVLAP-approved signatory.
- ◆ Any reproduction of this document must include the entire document in order for the report to be valid.



22018937  
 22018937



NVLAP Lab Code 200860-0 (CO)  
 NVLAP Lab Code 200829-0 (VA)  
 NVLAP Lab Code 500097-0 (AZ)  
 NVLAP Lab Code 201076-1 (CA)

AHA LAR, LLC  
 ACCREDITED LABORATORY  
 LAB #192683 (CO)  
 LAB #163063 (GA)  
 LAB #102977 (VA)  
 LAB #210229 (AZ)  
 LAB #102747 (NJ)  
 LAB #218981 (CA)

<b>Aerobiology Client</b>		JSK Environmental Services, LLC				
Field Contact	Nand Kaushik				Collected By/Date	Relinquished By/Date:
Reporting Address	1330 Peach Led Place, Fairfax, VA 22030				Relinquished By/Date:	Received By/Date: 5/23/08 @ 8:00am
Billing Address	Same as above				Sampler Type	Andersen <input type="checkbox"/> SAS <input type="checkbox"/>
Phone/Fax	703-980-0573				PO# /Job#:	SampleAire <input type="checkbox"/> Other <input type="checkbox"/>
Reporting Email(s)	nand@jskenvironmental.com				Project Name:	AeroTrap <input type="checkbox"/> BioCulture <input type="checkbox"/>
Routine	24 Hour	Same Day	4 Hour	2 Hour	5 Day (Asbestos Only)	Notes:
<b>SAMPLING LOCATION ZIP CODE</b>					22204	
					CC Info:	

Sample No.	Test Code	Sample Location	Total Volume/Area
1	HM1-1	Built up roof tie on Building Roof	
2	HM1-2		
3	HM2-1	White/Black Curbing/Flashing on Building Roof	
4	HM2-2		
5	HM3-1	Silver Roof Vent Coating on Building Roof	
6	HM3-2		
7	HM4-1	Black vent pipe mastic on Building Roof	
8	HM4-2		
9	HM5-1	Grayspray on fire proofing in Building Basement	
10	HM5-2		
11	HM5-3		
12	HM6-1	Cream pipe insulation mastic in Basement Boiler Room + Corridor	
13	HM6-2		
14	HM7-1	Brown 9"x9" Vinyl Floor tile with black mastic Building Starwell South side	

1054	Direct, Non-viable Spore Trap	1015	Culture - WATER Legionella
1051	Direct, Qualitative - Swab/Tape	1017	Culture - SWAB Legionella
1050	Direct, Qualitative - Bulk	1010	WATER - Potable - E. coli/total coliforms
1005	AIR Culture - Bacterial Count w/ ID's	1012	SWAB - E. coli/total coliforms
1030	AIR Culture - Fungal Count w/ ID's	1028	SWAB - Sewage Screen (E. coli/Enterococcus/fecal coliforms)
1006	SWAB Culture - Bacterial Count w/ ID's	2056	WATER - Heterotrophic Plate Count
1031	SWAB Culture - Fungal Count w/ ID's	3001	ASBESTOS - Point count
1008	BULK Culture - Bacterial Count w/ ID's	3002	ASBESTOS - PLM Analysis
1033	BULK Culture - Fungal Count w/ ID's	3003	ASBESTOS - Particle characterization
1007	WATER Culture - Bacterial Count w/ID's	3004	ASBESTOS - PCM Analysis



Lab Use  
 22018937



AIHA LAP, LLC  
 ACCREDITED LABORATORY  
 19100 S. CENTRAL EXP. WAY  
 SUITE 1100  
 DENVER, CO 80231  
 www.aiaa.com/lap  
 LAB #192683 (CO)  
 LAB #163063 (GA)  
 LAB #102977 (VA)  
 LAB #210229 (AZ)  
 LAB #102747 (NJ)  
 LAB #218981 (CA)

NVLAP Lab Code 200860-0 (CO)  
 NVLAP Lab Code 200829-0 (VA)  
 NVLAP Lab Code 500097-0 (AZ)  
 NVLAP Lab Code 201076-1 (CA)

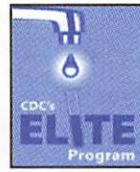
<b>Aerobiology Client</b>					Collected By/Date:	Relinquished By/Date:
Field Contact					Relinquished By/Date:	Received By/Date: <i>3/28/00 8:00pm</i>
Reporting Address					Sampler Type	Andersen <input type="checkbox"/> SAS <input type="checkbox"/>
Billing Address					Sample Aire	AeroTrap <input type="checkbox"/> Other <input type="checkbox"/>
Phone/Fax					PO# /Job#:	
Reporting Email(s)					Project Name:	
Routine	24 Hour	Same Day	4 Hour	2 Hour	5 Day (Asbestos Only)	Notes:
<b>SAMPLING LOCATION ZIP CODE</b>					CC Info:	

	Sample No.	Test Code	Sample Location	Total Volume/Area
15	1 HM7-2	3002	Brown 9"x9" vinyl floor tile with black mastic Building stairwell, South Side	
16	2 HM8-1	↓	Gray HVAC Duct Seam mastic in Building basement HVAC Rooms	
17	3 HM8-2		— 11 — 11 —	
18	4 HM9-1		Black/Grey/yellow floor mastic below carpeting in elevator	
19	5 HM9-2		— 11 — 11 —	
20	6 HM10-1		Gray pebble pattern Resilient Sheet Flooring over Brown VET with black mastic corridor near elevator	
21	7 HM10-2		— 11 —	
22	8 HM11-1		Plaster Gray base white skin coat in Building stairwell	
23	9 HM11-2		— 11 — 11 —	
24	10 HM11-3		— 11 — 11 —	
25	11 HM12-1		Gray mastic 12"x12" vinyl floor tile with tan mastic, Building main level	
26	12 HM12-2		— 11 — 11 —	
27	13 HM13-1		Tan 4" vinyl core base with gray mastic, Building main level	
28	14 HM13-2		— 11 — 11 —	

1054	Direct, Non-viable Spore Trap	1015	Culture - WATER Legionella
1051	Direct, Qualitative - Swab/Tape	1017	Culture - SWAB Legionella
1050	Direct, Qualitative - Bulk	1010	WATER - Potable - E. coli/total coliforms
1005	AIR Culture - Bacterial Count w/ ID's	1012	SWAB - E. coli/total coliforms
1030	AIR Culture - Fungal Count w/ ID's	1028	SWAB - Sewage Screen (E. coli/Enterococcus/fecal coliforms)
1006	SWAB Culture - Bacterial Count w/ ID's	2056	WATER - Heterotrophic Plate Count
1031	SWAB Culture - Fungal Count w/ ID's	3001	ASBESTOS - Point count
1008	BULK Culture - Bacterial Count w/ ID's	3002	ASBESTOS - PLM Analysis
1033	BULK Culture - Fungal Count w/ ID's	3003	ASBESTOS - Particle characterization
1007	WATER Culture - Bacterial Count w/ID's	3004	ASBESTOS - PCM Analysis



Lab Use  
 22018937



VA - 102977 AZ - 210229  
 CA - 218951 CO - 192683  
 NJ - 102747 GA - 163063  
 FL - 228303 IL - 232279

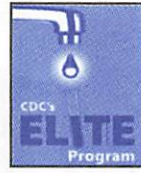
<b>Aerobiology Client</b>					Collected By/Date:	Relinquished By/Date:
Field Contact					Relinquished By/Date:	Received By/Date: 5/23/20 8:00 am
Reporting Address					Sampler Type	Andersen _____ SAS _____
Billing Address					Sample Type	AeroTrap _____ BioCulture _____
Phone/Fax					PO# /Job#:	
Reporting Email(s)					Project Name:	
<input type="checkbox"/> Routine	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> Same Day	<input type="checkbox"/> 4 Hour	<input type="checkbox"/> 2 Hour	Notes:	
<b>SAMPLING LOCATION ZIP CODE</b>					CC Info:	

Sample No.	Test Code	Sample Location	Total Volume/Area
29 1	HM14-1	3002 Gray Sink Bond coating, Break Room on Main Level and 2nd floor.	
30 2	HM14-2		
31 3	HM15-1	Gray 4" vinyl core base with brown mastic, Building main level	
32 4	HM15-2		
33 5	HM16-1	Brown/tan/black vinyl floor mastic in Building main level	
34 6	HM16-2		
35 7	HM17-1	White Drywall with ashite joint compound throughout building	
36 8	HM17-2		
37 9	HM17-3		
38 10	HM18-1	White 9"x9" vinyl floor tile with black mastic in Mezzanine level	
39 11	HM18-2		
40 12	HM19-1	White mastic 12"x12" vinyl floor tile with black mastic/Gray & white level compound throughout 2nd floor	
41 13	HM19-2		
42 14	HM20-1	Green 9"x9" vinyl floor tile with black mastic, building stairwell, north side	

1054	Direct, Non-viable Spore Trap	1015	Culture - WATER Legionella
1051	Direct, Qualitative - Swab/Tape	1017	Culture - SWAB Legionella
1050	Direct, Qualitative - Bulk	1010	WATER - Potable - E. coli/total coliforms
1005	AIR Culture - Bacterial Count w/ ID's	1012	SWAB - E. coli/total coliforms
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1033	BULK Culture - Fungal Count w/ ID's	3003	ASBESTOS - Particle characterization
1007	WATER Culture - Bacterial Count w/ ID's	3004	ASBESTOS - PCM Analysis



Lab Use  
 22018937



VA - 102877 AZ - 210229  
 CA - 216951 CO - 192683  
 NJ - 102747 GA - 163063  
 FL - 228303 IL - 232279

<b>Aerobiology Client</b>					AZ, CA, CO, FL, GA, IL, VA, NJ	AZ, CA, CO, VA
Field Contact					Collected By/Date:	Relinquished By/Date:
Reporting Address					Relinquished By/Date:	Received By/Date: <i>5/23/08 8:00am</i>
Billing Address					Sampler Type	Andersen <input type="checkbox"/> SAS <input type="checkbox"/>
Phone/Fax					Sample Aire	AeroTrap <input type="checkbox"/> Other <input type="checkbox"/>
Reporting Email(s)					PO# /Job#:	BioCulture <input type="checkbox"/>
<input type="checkbox"/> Routine <input type="checkbox"/> 24 Hour <input type="checkbox"/> Same Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Hour					Notes:	
<b>SAMPLING LOCATION ZIP CODE</b>					CC Info:	

	Sample No.	Test Code	Sample Location	Total Volume/Area
43	1 HM 20-2		————— 11 ————— 11 —————	
44	2 HM 21-1	300 2	Tan Carpet glue with black mastic throughout offices on 3rd floor.	
45	3 HM 21-2		————— 11 —————	
46	4 HM 22-1		White setting bed with black mastic in break room on Building 3rd floor	
47	5 HM 22-2		————— 11 ————— 11 —————	
48	6 HM 23-1		Grey black specs, 12"x12" VFT yellow mastic over gray VFT black mastic over gray VFT yellow mastic over cream RSP black mastic 3rd floor	
49	7 HM 23-2		————— 11 ————— 11 —————	
50	8 HM 24-1		Gray rotten on window glazing, throughout.	
51	9 HM 24-2	✓	————— 11 ————— 11 —————	
10				
11				
12				
13				
14				

1054	Direct, Non-viable Spore Trap	1015	Culture - WATER Legionella
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1050	Direct, Qualitative - Bulk	1010	WATER - Potable - E. coli/total coliforms
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1007	WATER Culture - Bacterial Count w/ ID's	3004	ASBESTOS - PCM Analysis

## ACM SURVEY BULK SAMPLE LOG

Site Address: 3108 Columbia Pike, Arlington, VA 22204				Date: May 20, 2022			Page 1 of 5	
Company: JSK Environmental Services, LLC			Tel: (703)-980-0573		Collected by: Nand Kaushik & Mike Allshouse			
Project Site: Office Building Columbia Pike, Arlington County							Project No.: JSK-2022-28	
Sample Number	Type of Material Sampled	Sample Location	Friable	Condition of Material	Accessibility	Photo	Comments	
HM1-1	Built up Roof Field	Building Roof	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM1-2	Built up Roof Field	Building Roof	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM2-1	White/Black Curbing/Flashing	Building Roof	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM2-2	White/Black Curbing/Flashing	Building Roof	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM3-1	Silver Roof Vent Coating	Building Roof	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM3-2	Silver Roof Vent Coating	Building Roof	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM4-1	Black Vent Pipe Mastic	Building Roof	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM4-2	Black Vent Pipe Mastic	Building Roof	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM5-1	Gray Spray-on Fire Proofing	Building Basement, Boiler Room	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM5-2	Gray Spray-on Fire Proofing	Building Basement, Corridor	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Site Address: 3108 Columbia Pike, Arlington, VA 22204				Date: May 20, 2022			Page 1 of 5	
Company: JSK Environmental Services, LLC			Tel: (703)-980-0573		Collected by: Nand Kaushik & Mike Allshouse			
Project Site: Office Building Columbia Pike, Arlington County							Project No.: JSK-2022-28	
Sample Number	Type of Material Sampled	Sample Location	Friable	Condition of Material	Accessibility	Photo	Comments	
HM5-3	Gray Spray-on Fire Proofing	Building Basement, Electrical Room	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM6-1	Cream Pipe Insulation Mastic	Building Basement, Boiler Room	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM6-2	Cream Pipe Insulation Mastic	Building Basement, Corridor	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM7-1	9" by 9" brown vinyl floor tile with black mastic	Building Stairwell, west side	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Present all throughout stairwell and throughout Mezzanine Level and portions of 3 <sup>rd</sup> Floor	
HM7-2	9" by 9" brown vinyl floor tile with black mastic	Building Stairwell, west side	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Present all throughout stairwell and throughout Mezzanine Level and portions of 3 <sup>rd</sup> Floor	
HM8-1	Gray HVAC Duct Seam Mastic	Building Basement, HVAC Room Number 1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM8-2	Gray HVAC Duct Seam Mastic	Building Basement, HVAC Room Number 2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM9-1	Black/Gray/Yellow Mastic	Building Elevator	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM9-2	Black/Gray/Yellow Mastic	Building Elevator	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM10-1	Gray Pebble Pattern Resilient Sheet Flooring over Brown Vinyl Floor tiling with black mastic	Building Main Floor, Corridor near Elevator	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		



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Company: JSK Environmental Services, LLC		Tel: (703)-980-0573		Collected by: Nand Kaushik & Mike Allshouse			
Project Site: Office Building Columbia Pike, Arlington County						Project No.: JSK-2022-28	
Sample Number	Type of Material Sampled	Sample Location	Friable	Condition of Material	Accessibility	Photo	Comments
HM10-2	Gray Pebble Pattern Resilient Sheet Flooring over Brown Vinyl Floor tiling with black mastic	Building Main Floor, Corridor near Elevator	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
HM11-1	Plaster Gray Base White Skim Coat on Wall	Building Main Floor, Corridor near Elevator	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
HM11-2	Plaster Gray Base White Skim Coat on Wall	Building Main Floor, Corridor near Elevator	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
HM11-3	Plaster Gray Base White Skim Coat on Wall	Building Main Floor, Stairwell on West Side	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Throughout West Side Stairwell
HM12-1	12" by 12" Gray Mottled Vinyl Floor Tile with Tan Mastic	Building Main Floor, Flooring in Office Area on West Side of Building	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
HM12-2	12" by 12" Gray Mottled Vinyl Floor Tile with Tan Mastic	Building Main Floor, Flooring in Office Area on West Side of Building	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
HM13-1	4" Gray Vinyl Cove Base with Gray Mastic	Building Main Floor, Flooring in Office Area on West Side of Building	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
HM13-2	4" Gray Vinyl Cove Base with Gray Mastic	Building Main Floor, Flooring in Office Area on West Side of Building	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
HM14-1	Gray Sink Bowl Coating	Building Main Floor, Break Room on West Side	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
HM14-2	Gray Sink Bowl Coating	Building 2 <sup>nd</sup> floor, Break Room on East Side	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

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Company: JSK Environmental Services, LLC		Tel: (703)-980-0573		Collected by: Nand Kaushik & Mike Allshouse				
Project Site: Office Building Columbia Pike, Arlington County							Project No.: JSK-2022-28	
Sample Number	Type of Material Sampled	Sample Location	Friable	Condition of Material	Accessibility	Photo	Comments	
HM15-1	4" Brown Vinyl Cove Base with Brown Mastic	Building Main Floor, Flooring in Some of the Office Area on West Side of Building	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM15-2	4" Brown Vinyl Cove Base with Brown Mastic	Building Main Floor, Flooring in the Central Customer Area	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM16-1	Brown/Tan/Black Floor Mastic	Building Main Floor, Main Customer Area	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM16-2	Brown/Tan/Black Floor Mastic	Building Main Floor, Main Customer Area	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM17-1	White Drywall with Associated White Joint Compound	Building Main Floor	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Throughout all Building Floors	
HM17-2	White Drywall with Associated White Joint Compound	Building 2 <sup>nd</sup> Floor	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Throughout all Building Floors	
HM17-3	White Drywall with Associated White Joint Compound	Building 3 <sup>rd</sup> Floor	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Throughout all Building Floors	
HM18-1	9" by 9" White Vinyl Floor Tile with Black Mastic	Building Mezzanine Floor, Office Space	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM18-2	9" by 9" White Vinyl Floor Tile with Black Mastic	Building Mezzanine Floor, Office Space	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM19-1	12" by 12" White Mottled Vinyl Floor Tile with Black Mastic and Gray/White Leveling Compound	Building 2 <sup>nd</sup> Floor	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Throughout the entire 2 <sup>nd</sup> Floor	

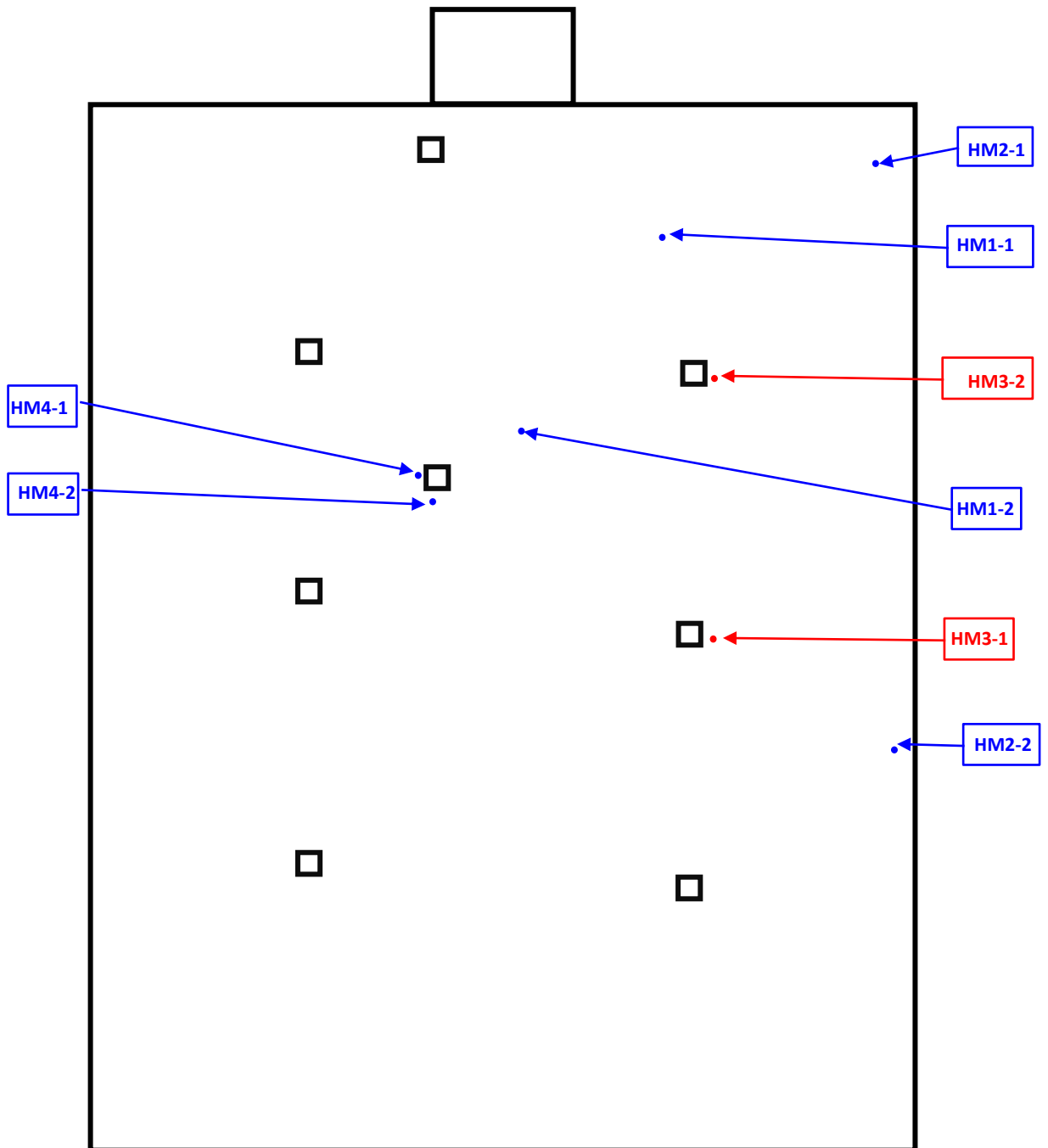
Site Address: 3108 Columbia Pike, Arlington, VA 22204				Date: May 20, 2022			Page 1 of 5
Company: JSK Environmental Services, LLC		Tel: (703)-980-0573		Collected by: Nand Kaushik & Mike Allshouse			
Project Site: Office Building Columbia Pike, Arlington County						Project No.: JSK-2022-28	
Sample Number	Type of Material Sampled	Sample Location	Friable	Condition of Material	Accessibility	Photo	Comments
HM19-2	12" by 12" White Mottled Vinyl Floor Tile with Black Mastic and Gray/White Leveling Compound	Building 2 <sup>nd</sup> Floor	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Throughout the entire 2 <sup>nd</sup> Floor
HM20-1	9" by 9" Green Vinyl Floor Tile with Black Mastic	Building stairwell on East Side	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Throughout stairwell
HM20-2	9" by 9" Green Vinyl Floor Tile with Black Mastic	Building stairwell on East Side	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Throughout stairwell
HM21-1	Tan carpet glue with black mastic	Building 3 <sup>rd</sup> floor, Throughout the offices	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Throughout 3 <sup>rd</sup> floor Office Areas
HM21-2	Tan carpet glue with black mastic	Building 3 <sup>rd</sup> floor, Throughout the offices	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Throughout 3 <sup>rd</sup> floor Office Areas
HM22-1	White Setting Bed with Black Mastic	Building 3 <sup>rd</sup> Floor, Break Room on West Side	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Throughout 3 <sup>rd</sup> floor Office Areas
HM22-2	White Setting Bed with Black Mastic	Building 3 <sup>rd</sup> Floor, Break Room on West Side	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Throughout 3 <sup>rd</sup> floor Office Areas
HM23-1	12" by 12" Gray/Black Specs Vinyl Floor Tile with Yellow Mastic over Gray Vinyl Floor Tile with Black Mastic over Gray Vinyl Floor Tile with Yellow Mastic over Cream Resilient Floor Sheet with Black Mastic	Building 3 <sup>rd</sup> Floor, Office Space on Northwest Corner	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Four Layers of Flooring
HM23-2	12" by 12" Gray/Black Specs Vinyl Floor Tile with Yellow Mastic over Gray Vinyl Floor Tile with Black Mastic over Gray Vinyl Floor Tile with Yellow Mastic over Cream	Building 3 <sup>rd</sup> Floor, Office Space on Northwest Corner	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potentially	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Four Layers of Flooring





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Project Site: Office Building Columbia Pike, Arlington County							Project No.: JSK-2022-28	
Sample Number	Type of Material Sampled	Sample Location	Friable	Condition of Material	Accessibility	Photo	Comments	
	Resilient Floor Sheet with Black Mastic							
HM24-1	Gray Interior Window Glazing	Throughout Building	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Potentially	<input type="checkbox"/> Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
HM24-2	Gray Interior Window Glazing	Throughout Building	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Potentially	<input type="checkbox"/> Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor	<input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

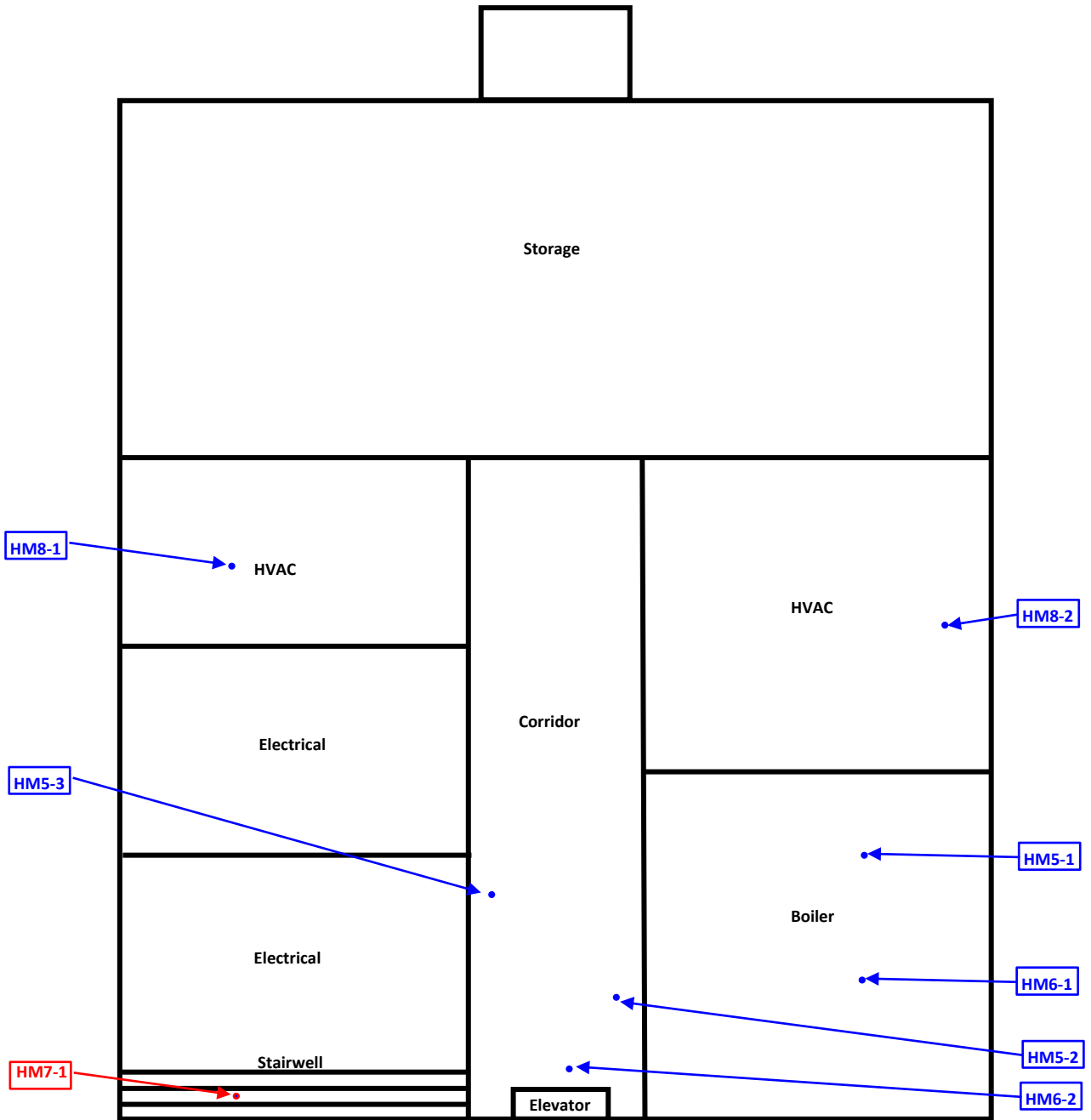
## **APPENDIX B – SITE LAYOUT AND ACM SAMPLE LOCATION DRAWING**

# Figure 1 - Asbestos Sample Location Map, Roof 3108 Columbia Pike, Arlington, VA





	<p><b>LEGEND</b></p> <p><span style="border: 1px solid blue; padding: 2px;">..</span> - Bulk Sample Location (non-ACM)</p> <p><span style="border: 1px solid red; padding: 2px;">..</span> - Bulk Sample Location (ACM)</p>	<p><b>FIGURE 1</b></p> <p>Sample Location Site Map (Not to Scale) Office Building - Roof</p>	<p>JSK Project No. : JSK-2022-28</p> <p><b>3108 Columbia Pike, Arlington, VA</b></p>	<p>N</p> 
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# Figure 2 - Asbestos Sample Location Map, Basement 3108 Columbia Pike, Arlington, VA

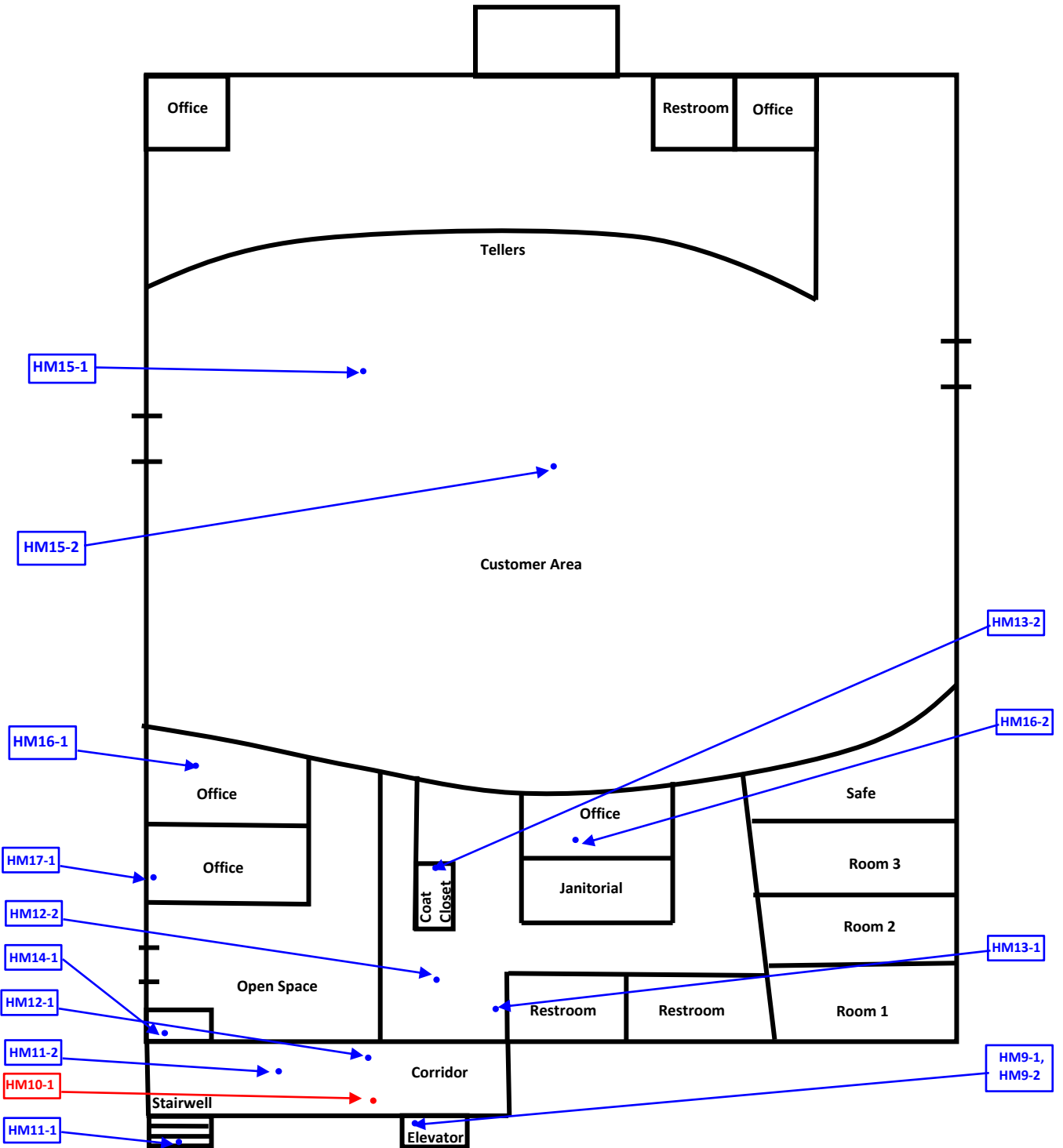




**HM 7 Throughout Stairwell**

**HM 5 Throughout Basement**

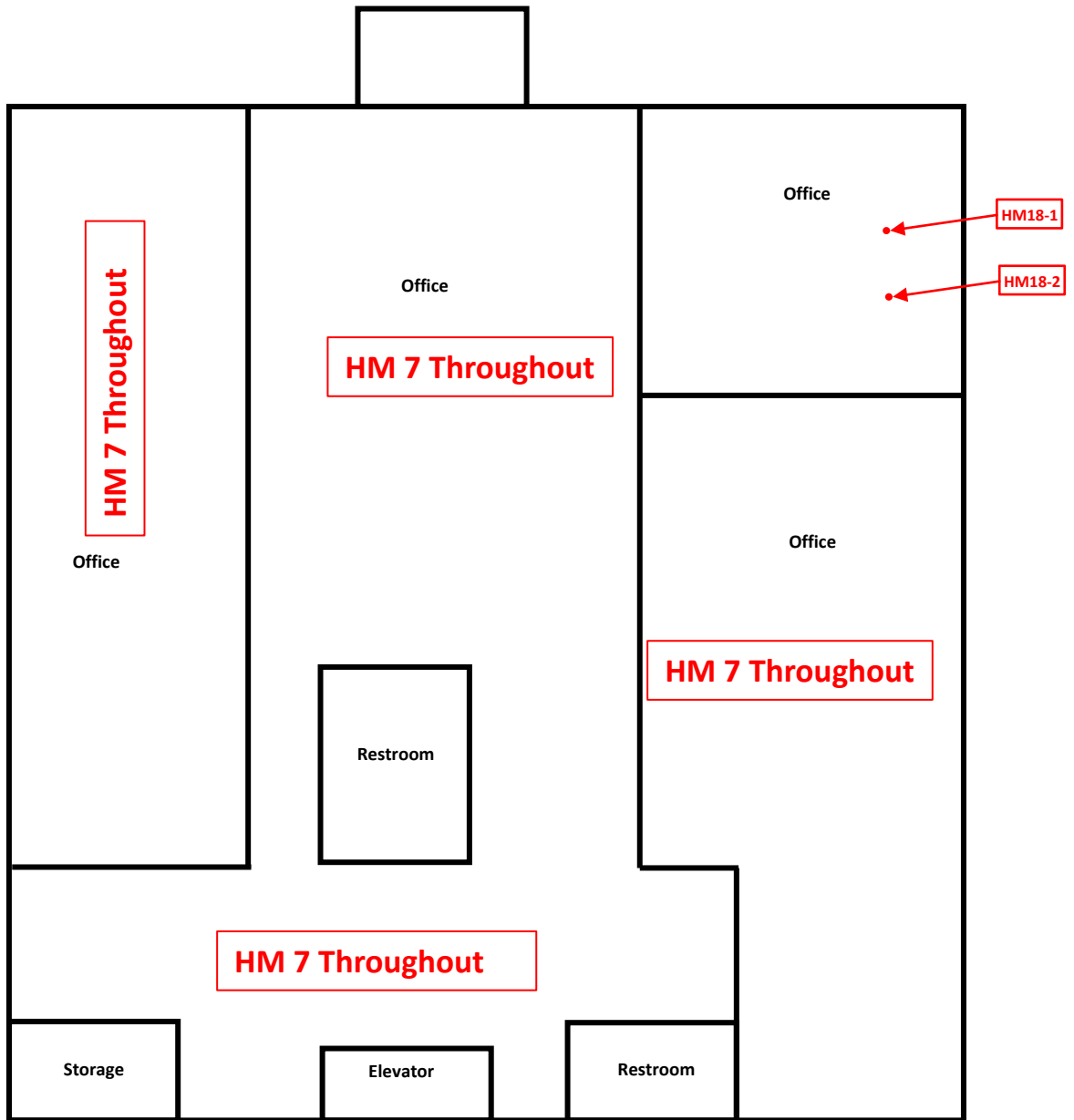
	<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li><span style="border: 1px solid blue; padding: 2px;">..</span> - Bulk Sample Location (non-ACM)</li> <li><span style="border: 1px solid red; padding: 2px;">..</span> - Bulk Sample Location (ACM)</li> </ul>	<p><b>FIGURE 2</b></p> <p>Sample Location Site Map (Not to Scale) Office Building - Basement</p>	<p>JSK Project No. : JSK-2022-28</p> <p><b>3108 Columbia Pike, Arlington, VA</b></p>	<p>N</p> 
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
# Figure 3 - Asbestos Sample Location Map, Main Floor 3108 Columbia Pike, Arlington, VA



 <p><b>JSK</b> Environmental Services, LLC <i>Engineering, Consulting, Remediation</i></p>	<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li><span style="border: 1px solid blue; padding: 2px;">..</span> - Bulk Sample Location (non-ACM)</li> <li><span style="border: 1px solid red; padding: 2px;">..</span> - Bulk Sample Location (ACM)</li> </ul>	<p><b>FIGURE 3</b></p> <p>Sample Location Site Map (Not to Scale) Office Building –Main Floor</p>	<p>JSK Project No. : JSK-2022-28</p> <p><b>3108 Columbia Pike, Arlington, VA</b></p>	<p>N</p> 
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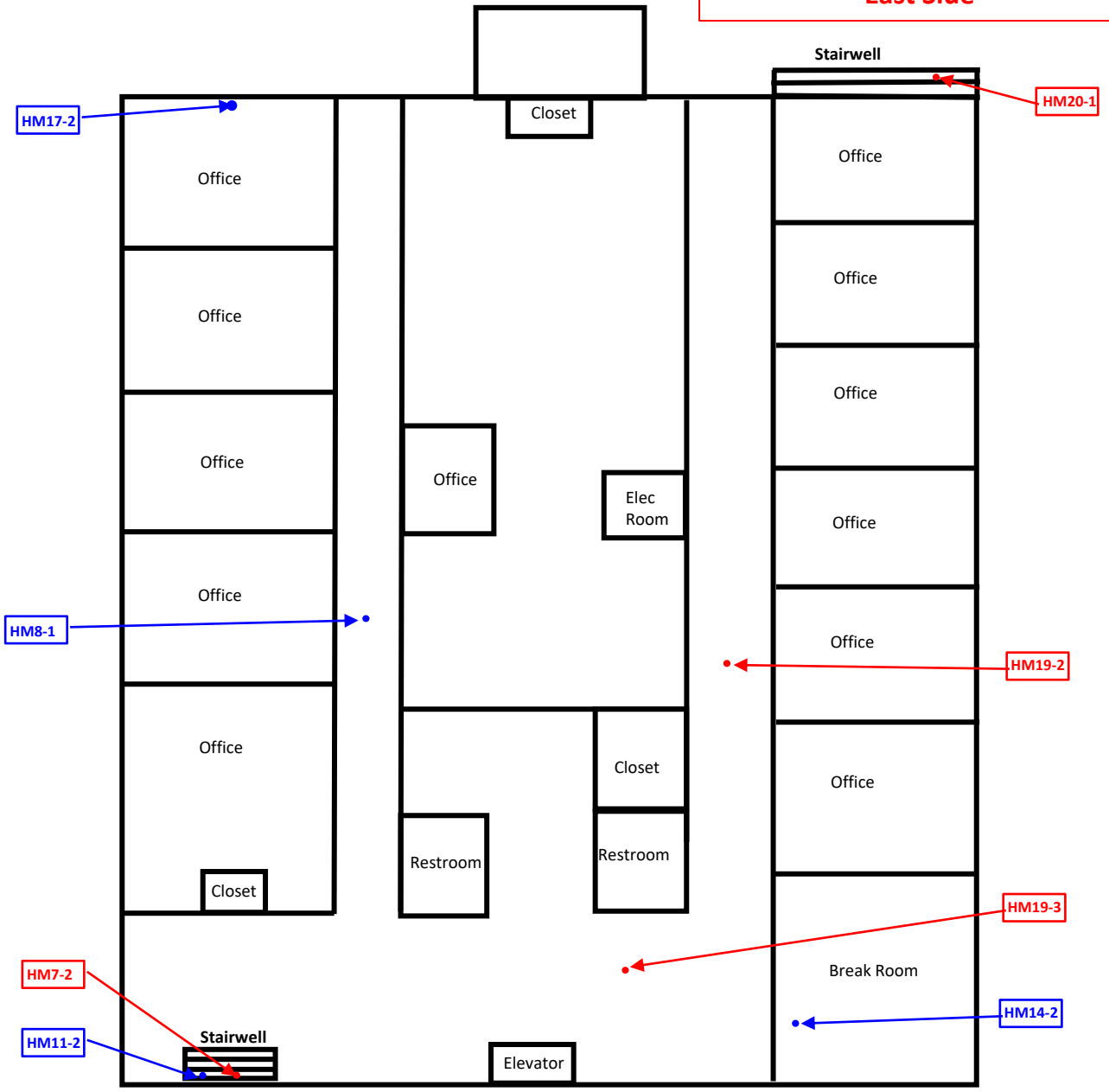
**Figure 4 - Asbestos Sample Location Map, Mezzanine Area  
3108 Columbia Pike, Arlington, VA**





 <p><b>JSK</b> Environmental Services, LLC <i>Engineering, Consulting, Technology</i></p>	<p><b>LEGEND</b></p> <p><span style="border: 1px solid blue; padding: 2px;">..</span> - Bulk Sample Location (non-ACM)</p> <p><span style="border: 1px solid red; padding: 2px;">..</span> - Bulk Sample Location (ACM)</p>	<p><b>FIGURE 4</b> Sample Location Site Map (Not to Scale) Office Building - Mezzanine</p>	<p>JSK Project No. : JSK-2022-28</p> <p><b>3108 Columbia Pike, Arlington, VA</b></p>	<p>N</p> 
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# Figure 5 - Asbestos Sample Location Map, 2<sup>nd</sup> Floor 3108 Columbia Pike, Arlington, VA

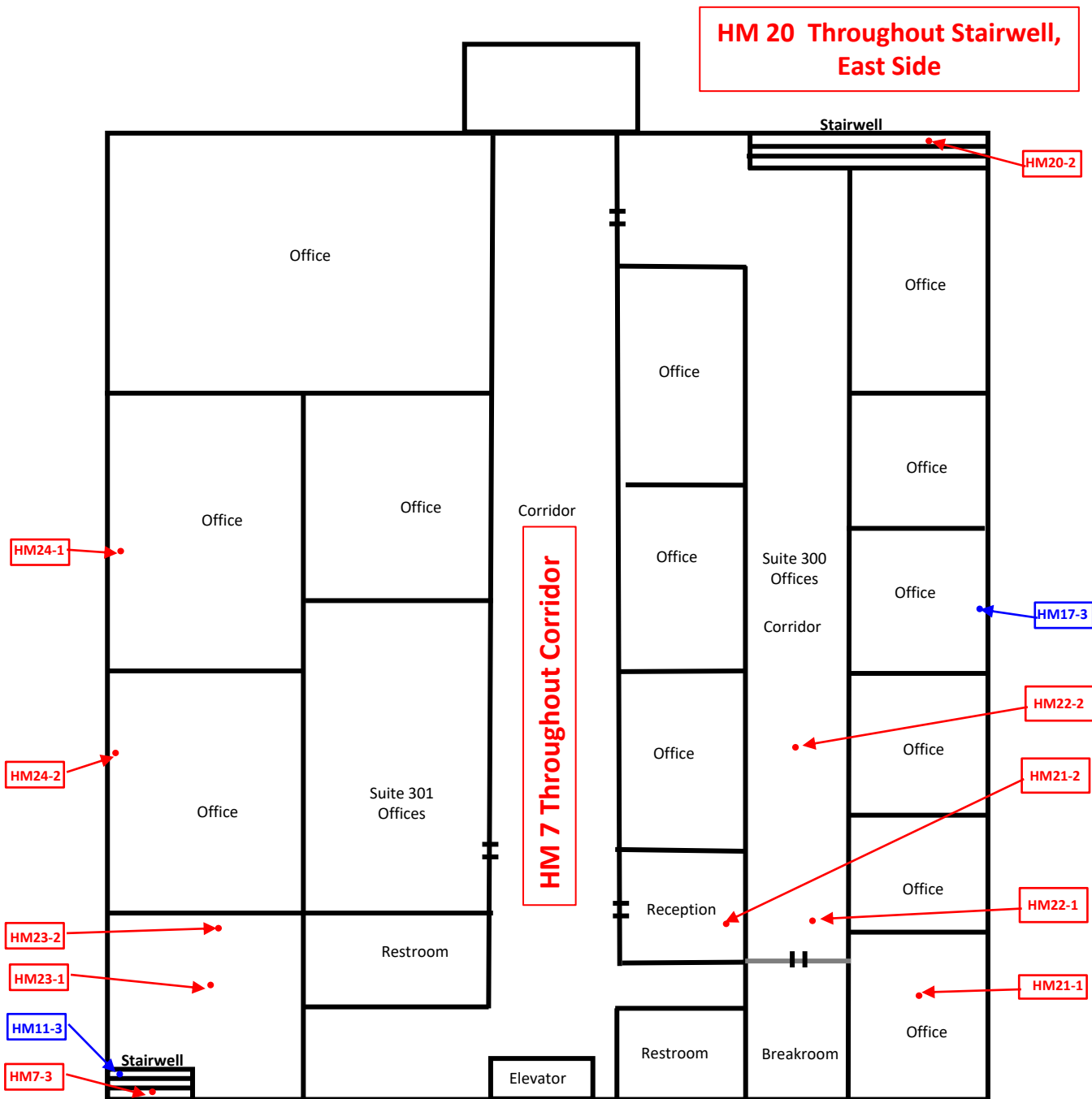
**HM 20 Throughout Stairwell, East Side**





**HM 19 Throughout 2<sup>nd</sup> Floor**

 <p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li><span style="border: 1px solid blue; padding: 2px;">..</span> - Bulk Sample Location (non-ACM)</li> <li><span style="border: 1px solid red; padding: 2px;">..</span> - Bulk Sample Location (ACM)</li> </ul>	<p><b>FIGURE 5</b></p> <p>Sample Location Site Map (Not to Scale) Office Building – 2<sup>nd</sup> Floor</p>	<p>JSK Project No. : JSK-2022-28</p> <p><b>3108 Columbia Pike, Arlington, VA</b></p>	<p>N</p> 
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# Figure 6 - Asbestos Sample Location Map, 3<sup>rd</sup> Floor 3108 Columbia Pike, Arlington, VA



 <p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li><span style="border: 1px solid blue; padding: 2px;">..</span> - Bulk Sample Location (non-ACM)</li> <li><span style="border: 1px solid red; padding: 2px;">..</span> - Bulk Sample Location (ACM)</li> </ul>	<p align="center"><b>FIGURE 6</b></p> <p align="center">Sample Location Site Map (Not to Scale) Office Building – 3<sup>rd</sup> Floor</p>	<p>JSK Project No. : JSK-2022-28</p> <p align="center"><b>3108 Columbia Pike, Arlington, VA</b></p>	<p align="center">N</p> 
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## **APPENDIX C – XRF SURVEY RESULTS FOR LBP ASSESSMENT AND LBP LOCATION DRAWING**

**Table 1: Lead Based Paint Survey XRF Readings**

Project Number: JSK-2022-28  
 Project: Office Building  
 Address: 3108 Columbia Pike  
Arlington, VA 22204  
 XRF Unit Started: 10.10 AM

Date: May 20, 2022  
 Operator: Michael Allshouse  
 XRF Total Readings: 112  
 XRF Unit Ended: 11.15 AM

Reading Date	Reading Number	Interior/ Exterior	Room ID	Structure	Substrate	Color	Paint Condition <sup>(A)</sup>	Reading (mg/cm <sup>2</sup> ) <sup>(B)</sup>	Result <sup>(C)</sup>
05/20/2022	1		Calibration					0.9	Average of 0.9
05/20/2022	2		Calibration					1.0	
05/20/2022	3		Calibration					0.9	
			<b><u>BUILDING MAIN LEVEL (1<sup>ST</sup> FLOOR)</u></b>						
05/20/2022	4	Interior	Customer Area, Back Office Behind Tellers	Wall	Plaster	White	Intact	- 0.1	Negative
05/20/2022	5	Interior	Restroom	Door	Wood	White	Intact	- 0.2	Negative
05/20/2022	6	Interior	Restroom	Door Casing	Metal	White	Intact	0.2	Negative
05/20/2022	7	Interior	Restroom	Ceiling	Plaster	White	Intact	- 0.3	Negative
05/20/2022	8	Interior	Operations Room	Wall	Drywall	Tan	Intact	- 0.1	Negative
05/20/2022	9	Interior	Operations Room	Wall	Plaster	Tan	Intact	- 0.3	Negative
05/20/2022	10	Interior	Customer Room 3	Door Casing	Metal	Cream	Intact	0.4	Negative
05/20/2022	11	Interior	Room with Safe	Wall	Drywall	Tan	Intact	- 0.2	Negative
05/20/2022	12	Interior	Men's Restroom Near Elevator	Door	Wood	Cream	Intact	- 0.1	Negative
05/20/2022	13	Interior	Men's Restroom Near Elevator	Door Casing	Metal	Cream	Intact	- 0.3	Negative
05/20/2022	14	Interior	Janitorial Room	Wall	Drywall	Cream	Intact	0.1	Negative
05/20/2022	15	Interior	Janitorial Room	Shelf	Wood	Tan	Intact	- 0.0	Negative
05/20/2022	16	Interior	Elevator	Door	Metal	Cream	Intact	- 0.2	Negative
05/20/2022	17	Interior	Elevator	Door Casing	Metal	Cream	Intact	- 0.2	Negative
05/20/2022	18	Interior	Elevator	Ceiling	Plaster	Cream	Intact	- 0.2	Negative
05/20/2022	19	Interior	Stairway	Stringer	Metal	Cream	Intact	- 0.1	Negative

Reading Date	Reading Number	Interior/ Exterior	Room ID	Structure	Substrate	Color	Paint Condition <sup>(A)</sup>	Reading (mg/cm <sup>2</sup> ) <sup>(B)</sup>	Result <sup>(C)</sup>
05/20/2022	20	Interior	Stairway	Stair Riser	Wood	Cream	Deteriorated (10%)	5.8	Positive
05/20/2022	21	Interior	Stairway	Wall	Concrete	Cream	Intact	- 0.4	Negative
			<b><u>BUILDING MEZZANINE AREA</u></b>						
05/20/2022	22	Interior	Wall Near Elevator	Wall	Plaster	Cream	Intact	- 0.1	Negative
05/20/2022	23	Interior	Wall Near Elevator	Wall Trim	Wood	White	Intact	0.3	Negative
05/20/2022	24	Interior	Men's Restroom	Door Casing	Metal	White	Intact	- 0.1	Negative
05/20/2022	25	Interior	Men's Restroom	Ceiling	Plaster	Cream	Intact	- 0.2	Negative
05/20/2022	26	Interior	Men's Restroom	Ceiling Trim	Wood	White	Intact	- 0.0	Negative
05/20/2022	27	Interior	Hallway	Wall	Drywall	Yellow	Intact	- 0.1	Negative
05/20/2022	28	Interior	Office to left of Elevator	Wall	Plaster	Yellow	Intact	- 0.2	Negative
05/20/2022	29	Interior	Office to left of Elevator	Crown Molding	Wood	White	Intact	- 0.0	Negative
05/20/2022	30	Interior	Office to left of Elevator	Chair Rail	Wood	White	Intact	- 0.1	Negative
05/20/2022	31	Interior	Office to left of Elevator	Wall Cap	Wood	White	Intact	0.1	Negative
05/20/2022	32	Interior	Office to left of Elevator	Door Casing	Metal	Cream	Intact	- 0.2	Negative
05/20/2022	33	Interior	Janitorial Room	Wall	Drywall	White	Intact	- 0.2	Negative
05/20/2022	34	Interior	Janitorial Room	Door Casing	Wood	White	Intact	- 0.3	Negative
05/20/2022	35	Interior	Office to the Right of Elevator	Wall	Plaster	Cream	Intact	- 0.3	Negative
05/20/2022	36	Interior	In-Between Office	Door	Wood	White	Intact	- 0.2	Negative
05/20/2022	37	Interior	In-Between Office	Door Casing	Wood	White	Intact	- 0.2	Negative
05/20/2022	38	Interior	Elevator at Mezzanine	Door	Metal	Brown	Intact	- 0.2	Negative
05/20/2022	39	Interior	Elevator at Mezzanine	Door Casing	Metal	Brown	Intact	- 0.2	Negative
			<b><u>BUILDING 2<sup>ND</sup> FLOOR</u></b>						
05/20/2022	40	Interior	Men's Restroom	Door	Wood	Cream	Intact	- 0.2	Negative
05/20/2022	41	Interior	Men's Restroom	Door Casing	Wood	Cream	Intact	0.1	Negative
05/20/2022	42	Interior	Men's Restroom	Wall	Plaster	Cream	Intact	- 0.2	Negative
05/20/2022	43	Interior	Near Elevator	Wall	Drywall	Cream	Intact	- 0.1	Negative
05/20/2022	44	Interior	Interior Office	Wall	Drywall	White	Intact	- 0.3	Negative
05/20/2022	45	Interior	Interior Office	I-Beam	Metal	Grey	Intact	- 0.3	Negative
05/20/2022	46	Interior	Interior Office	Door	Wood	White	Intact	0.0	Negative

Reading Date	Reading Number	Interior/ Exterior	Room ID	Structure	Substrate	Color	Paint Condition <sup>(A)</sup>	Reading (mg/cm <sup>2</sup> ) <sup>(B)</sup>	Result <sup>(C)</sup>
05/20/2022	47	Interior	Interior Office	Door Casing	Metal	White	Intact	- 0.0	Negative
05/20/2022	48	Interior	Interior Office	Wall	Drywall	White	Intact	- 0.2	Negative
05/20/2022	49	Interior	Another Different Interior Office	Wall	Plaster	Purple	Intact	- 0.3	Negative
05/20/2022	50	Interior	End Office	Door	Wood	White	Intact	- 0.3	Negative
05/20/2022	51	Interior	End Office	Door Casing	Metal	White	Intact	- 0.1	Negative
05/20/2022	52	Interior	End Office	Wall	Plaster	White	Intact	- 0.2	Negative
05/20/2022	53	Interior	Stairway	Stair Stringer	Metal	Cream	Intact	- 0.3	Negative
<b>05/20/2022</b>	<b>54</b>	<b>Interior</b>	<b>Stairway</b>	<b>Stair Riser</b>	<b>Metal</b>	<b>Cream</b>	<b>Intact</b>	<b>3.4</b>	<b>Positive</b>
05/20/2022	55	Interior	Another Different Interior Office	Door	Wood	White	Intact	- 0.4	Negative
05/20/2022	56	Interior	Another Different Interior Office	Door Casing	Metal	White	Intact	0.2	Negative
05/20/2022	57	Interior	Another Different Interior Office	Wall	Drywall	White	Intact	- 0.1	Negative
05/20/2022	58	Interior	Another Different Interior Office	Wall	Plaster	White	Intact	- 0.2	Negative
05/20/2022	59	Interior	Another Different Interior Office	Door	Wood	White	Intact	- 0.1	Negative
05/20/2022	60	Interior	Another Different Interior Office	Door Casing	Metal	White	Intact	- 0.3	Negative
05/20/2022	61	Interior	Another Different Interior Office	Wall	Plaster	White	Intact	- 0.1	Negative
05/20/2022	62	Interior	Break Room	Door	Wood	White	Intact	- 0.2	Negative
05/20/2022	63	Interior	Break Room	Door Casing	Metal	White	Intact	- 0.2	Negative
05/20/2022	64	Interior	Break Room	Wall	Drywall	White	Intact	0.0	Negative
05/20/2022	65	Interior	Break Room	Wall	Plaster	White	Intact	- 0.3	Negative
			<b>BUILDING 3<sup>RD</sup> FLOOR</b>						
05/20/2022	66	Interior	Men's Restroom	Door Casing	Metal	Cream	Intact	- 0.1	Negative
05/20/2022	67	Interior	Men's Restroom	Wall	Plaster	Cream	Intact	- 0.1	Negative
05/20/2022	68	Interior	Corridor	Wall	Drywall	Cream	Intact	- 0.4	Negative
05/20/2022	69	Interior	Suite 301 office entrance	Door	Wood	White	Intact	- 0.2	Negative
05/20/2022	70	Interior	Suite 301 office entrance	Door Casing	Metal	White	Intact	- 0.1	Negative
05/20/2022	71	Interior	Interior Office	Wall	Drywall	White	Intact	- 0.2	Negative
05/20/2022	72	Interior	Break Room	Door	Wood	White	Intact	- 0.1	Negative
05/20/2022	73	Interior	Break Room	Door Casing	Metal	White	Intact	0.4	Negative
05/20/2022	74	Interior	Break Room	Wall	Plaster	White	Intact	- 0.2	Negative

Reading Date	Reading Number	Interior/Exterior	Room ID	Structure	Substrate	Color	Paint Condition <sup>(A)</sup>	Reading (mg/cm <sup>2</sup> ) <sup>(B)</sup>	Result <sup>(C)</sup>
05/20/2022	75	Interior	Far End Office	Wall	Drywall	White	Intact	- 0.3	Negative
05/20/2022	76	Interior	Far End Office	Wall	Plaster	White	Intact	- 0.3	Negative
05/20/2022	77	Interior	Far End Office	Door	Wood	White	Intact	- 0.1	Negative
05/20/2022	78	Interior	Far End Office	Door Casing	Metal	White	Intact	- 0.2	Negative
05/20/2022	79	Interior	Suite 300 End Office	Wall	Plaster	Mauve	Intact	- 0.2	Negative
05/20/2022	80	Interior	Suite 300 End Office	Wall	Drywall	Mauve	Intact	- 0.3	Negative
05/20/2022	81	Interior	Suite 300 End Office	Door	Wood	White	Intact	0.0	Negative
05/20/2022	82	Interior	Suite 300 End Office	Door Casing	Metal	White	Intact	- 0.2	Negative
05/20/2022	83	Interior	Reception Area	Wall Cap	Wood	White	Intact	- 0.3	Negative
05/20/2022	84	Interior	Reception Area	Wall	Drywall	White	Intact	- 0.3	Negative
05/20/2022	85	Interior	Break Room	Door	Wood	White	Intact	0.1	Negative
05/20/2022	86	Interior	Break Room	Door Casing	Wood	White	Intact	- 0.1	Negative
			<b><u>BUILDING BASEMENT</u></b>						
05/20/2022	87	Interior	Basement Area	Wall	Concrete Masonry	White	Intact	- 0.5	Negative
05/20/2022	88	Interior	Basement Area	Door Casing	Metal	Gray	Deteriorated (50%)	- 0.0	Negative
05/20/2022	89	Interior	Boiler Room	Column	Plaster	White	Deteriorated (25%)	- 0.2	Negative
05/20/2022	90	Interior	Boiler Room	Wall	Brick	White	Deteriorated (10%)	0.0	Negative
05/20/2022	91	Interior	Boiler Room	Panel Box	Metal	White	Deteriorated (65%)	- 0.2	Negative
			<b><u>BUILDING EXTERIOR</u></b>						
<b>05/20/2022</b>	<b>92</b>	<b>Exterior</b>	<b>Building Rear Entrance</b>	<b>Column</b>	<b>Metal</b>	<b>White</b>	<b>Deteriorated (15%)</b>	<b>1.3</b>	<b>Positive</b>
<b>05/20/2022</b>	<b>93</b>	<b>Exterior</b>	<b>Building Rear Entrance</b>	<b>I-Beam</b>	<b>Metal</b>	<b>Cream</b>	<b>Deteriorated (25%)</b>	<b>1.7</b>	<b>Positive</b>
05/20/2022	94	Exterior	Building Rear Entrance	Wall	Brick	Cream	Intact	- 0.5	Negative
05/20/2022	95	Exterior	Building Rear Entrance	Windowsill	Concrete	Tan	Intact	- 0.3	Negative
05/20/2022	96	Exterior	Building Rear Entrance	Wall	Brick	White	Intact	- 0.3	Negative
05/20/2022	97	Exterior	Building Side Entrance (West)	I-Beam	Metal	White	Deteriorated (25%)	- 0.3	Negative

Reading Date	Reading Number	Interior/ Exterior	Room ID	Structure	Substrate	Color	Paint Condition <sup>(A)</sup>	Reading (mg/cm <sup>2</sup> ) <sup>(B)</sup>	Result <sup>(C)</sup>
05/20/2022	98	Exterior	Building Front Entrance	I-Beam	Metal	Cream	Deteriorated (10%)	1.8	Positive
05/20/2022	99	Exterior	Building Front Entrance	Windowsill	Concrete	White	Intact	0.1	Negative
05/20/2022	100	Exterior	Building Front Entrance	Window Lintel	Metal	White	Intact	2.1	Positive
05/20/2022	101	Exterior	Building Front Entrance	Column	Metal	White	Deteriorated (10%)	0.2	Negative
05/20/2022	102	Exterior	Building Front Entrance	Column	Metal	White	Deteriorated (20%)	1.3	Positive
05/20/2022	103	Exterior	Building Side Entrance (East)	Door	Metal	Cream	Deteriorated (10%)	- 0.2	Negative
05/20/2022	104	Exterior	Building Side Entrance (East)	Door Casing	Metal	Cream	Deteriorated (10%)	1.2	Positive
05/20/2022	105	Exterior	Building Side Entrance (East)	Door Lintel	Metal	Cream	Deteriorated (5%)	0.4	Negative
05/20/2022	106	Exterior	Building Side Entrance (East)	Door	Metal	Cream	Deteriorated (10%)	- 0.1	Negative
05/20/2022	107	Exterior	Building Side Entrance (East)	Door Casing	Metal	Cream	Deteriorated (10%)	- 0.2	Negative
05/20/2022	108	Exterior	Building Side Entrance (East)	Door Lintel	Metal	Cream	Deteriorated (5%)	1.7	Positive
05/20/2022	109	Exterior	Building Rear Entrance Canopy	Ceiling	Concrete	White	Deteriorated (20%)	- 0.1	Negative
05/20/2022	110		Calibration					1.1	Average of 1.0
05/20/2022	111		Calibration					1.0	
05/20/2022	112		Calibration					1.0	

Notes:

(A) = Paint Condition: Intact (no damage); Deteriorated (cracked and peeling)

(B) = XRF Lead Results

(C) = Readings shaded in yellow are positive, and are confirmed as lead containing paint because the concentrations exceed 1 mg/cm<sup>2</sup>

Readings above 0.0 are negative and are not defined as lead containing paint but could present a hazardous condition if disturbed causing exposure to workers, according to OSHA regulations.

Difference between Average and Calibration Block at Entry – 0.1

Difference between Average and Calibration Block at Exit – 0.1



## **APPENDIX D – INSPECTOR AND LABORATORY CERTIFICATIONS**



# COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation

9960 Mayland Drive, Suite 400, Richmond, VA 23233

Telephone: (804) 367-8500

EXPIRES ON

03-31-2023

NUMBER

3303004514

## BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS ASBESTOS INSPECTOR LICENSE



NANDKISHORE KAUSHIK  
13130 PEACH LEAF PLACE  
FAIRFAX, VA 22030



*Demetrios J. Mellis*  
Demetrios J. Mellis, Director

Status can be verified at <http://www.dpor.virginia.gov>

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)



COMMONWEALTH of VIRGINIA  
Department of Professional and Occupational Regulation

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS  
ASBESTOS INSPECTOR LICENSE  
NUMBER: 3303004514 EXPIRES: 03-31-2023

NANDKISHORE KAUSHIK  
13130 PEACH LEAF PLACE  
FAIRFAX, VA 22030



(FOLD)

Status can be verified at <http://www.dpor.virginia.gov>

DPOR-PC (02/2017)

(DETACH HERE)



# DPOR License Lookup License Number 3303003902

## License Details

<b>Name</b>	ALLSHOUSE, MICHEAL DAMIEN
<b>License Number</b>	3303003902
<b>License Description</b>	Asbestos Inspector License
<b>Rank</b>	Asbestos Inspector
<b>Address</b>	CHESTER, VA 23831
<b>Initial Certification Date</b>	2013-12-05
<b>Expiration Date</b>	2022-12-31

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DPOR License Lookup build 1,452 (built 2021-09-14 01:36:33).

# DPOR License Lookup License Number 3356001040

## License Details

<b>Name</b>	ALLSHOUSE, MICHEAL DAMIEN
<b>License Number</b>	3356001040
<b>License Description</b>	Lead Risk Assessor License
<b>Rank</b>	Lead Abatement Risk Assessor
<b>Address</b>	CHESTER, VA 23831
<b>Initial Certification Date</b>	2014-02-10
<b>Expiration Date</b>	2022-08-31

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DPOR License Lookup build 1,452 (built 2021-09-14 01:36:33).



## AIHA Laboratory Accreditation Programs, LLC

*acknowledges that*

### **Aerobiology Laboratory Associates, Inc.**

43760 Trade Center Place, Suite 100, Dulles, VA 20166

Laboratory ID: 102977

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 17025:2017 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

#### **LABORATORY ACCREDITATION PROGRAMS**

- |  |                                       |
|--|---------------------------------------|
| <input type="checkbox"/> INDUSTRIAL HYGIENE                    | Accreditation Expires:                |
| <input type="checkbox"/> ENVIRONMENTAL LEAD                    | Accreditation Expires:                |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: March 01, 2021 |
| <input type="checkbox"/> FOOD                                  | Accreditation Expires:                |
| <input type="checkbox"/> 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 17025:2017 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.

*Elizabeth Bair*

Elizabeth Bair  
Chairperson, Analytical Accreditation Board

*Cheryl O. Morton*

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



## AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

**Aerobiology Laboratory Associates, Inc.**

43760 Trade Center Place, Suite 100, Dulles, VA 20166

Laboratory ID: **102977**

Issue Date: 02/28/2019

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.

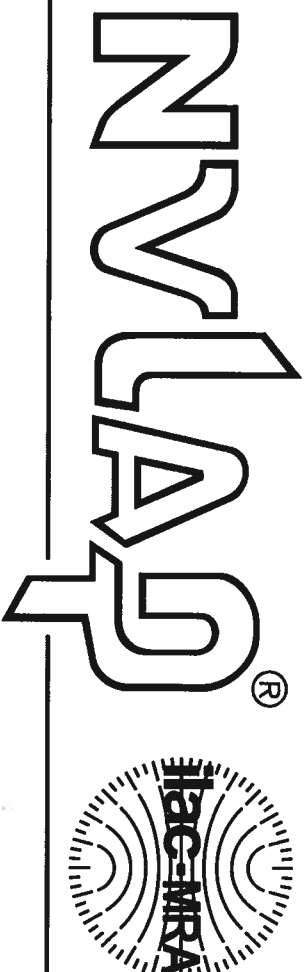
### Environmental Microbiology Laboratory Accreditation Program (EMLAP)

**Initial Accreditation Date: 10/01/2002**

EMLAP Category	Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>	
<b>Fungal</b>	Air - Culturable	SOP 3.2	In-house: Analysis of Culturable Air Samples for Fungi	
	Bulk - Culturable	SOP 3.4	In-house: Analysis of Culturable Bulk Samples for Fungi	
	Surface - Culturable	SOP 3.3	In-house: Analysis of Culturable Surface Samples for Fungi	
	Air - Direct Examination	SOP 3.8	In-house: Analysis of Spore Trap	
	Bulk - Direct Examination	SOP 3.7	In-house: Bulk Direct Analysis	
	Surface - Direct Examination	SOP 3.7	In-house: Surface Direct Analysis	
<b>Bacterial</b>	Air - Culturable	SOP 2.2	In-house: Analysis of Culturable Air Samples for Bacterial	
	Bulk - Culturable	SOP 2.4	In-house: Analysis of Culturable Bulk Samples for Bacterial	
	Surface - Culturable	SOP 2.3	In-house: Analysis of Culturable Surface Samples for Bacterial	
	Legionella		SOP 2.22	CDC 2005 Procedures for the Recovery of Legionella from the Environment
			SOP 2.35	CDC 2005 Procedures for the Recovery of Legionella from the Environment

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

United States Department of Commerce  
National Institute of Standards and Technology



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# Certificate of Accreditation to ISO/IEC 17025:2017

---

NVLAP LAB CODE: 200829-0

**Aerobiology Laboratory Associates, Inc.**  
Dulles, VA

is accredited by the National Voluntary Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:

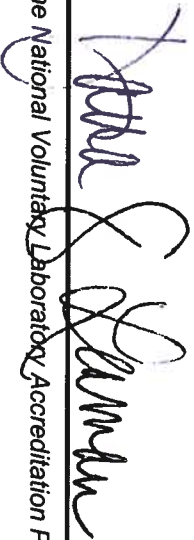
## **Asbestos Fiber Analysis**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to Joint ISO-ILAC-IAF Communiqué dated January 2009).*

2020-04-01 through 2021-03-31

Effective Dates



  
For the National Voluntary Laboratory Accreditation Program

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

**Aerobiology Laboratory Associates, Inc.**

43760 Trade Center Place

Suite 100

Dulles, VA 20166-2119

Ms. Sun Bun Bowling

Phone: 703-648-9150 Fax: 703-648-3919

Email: [sunbun@aerobiology.net](mailto:sunbun@aerobiology.net)

<http://www.aerobiology.net>

**ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 200829-0**

**Bulk Asbestos Analysis**

**Code**

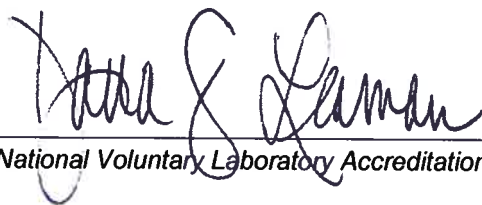
**Description**

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials



For the National Voluntary Laboratory Accreditation Program



## **APPENDIX E – PHOTOGRAPHIC LOG OF ASBESTOS, LBP & HAZARDOUS MATERIALS SAMPLES**



**PHOTOGRAPHIC LOG**  
**(May 20, 2022)**



Homogeneous Material No. 1 – Non-ACM Built up Roof Field located on the roof of the Subject Property



Homogeneous Material No. 2 – Non-ACM White/Black Curbing/Flashing located on the roof of the Subject Property





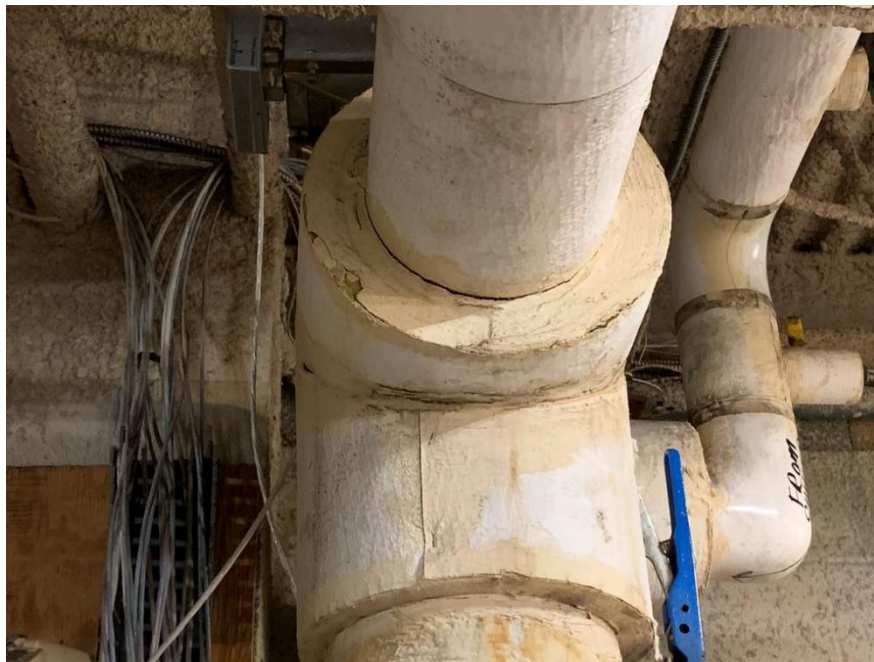
**Homogeneous Material No. 3 – ACM Silver Roof Vent Coating located on the roof of the Subject Property**



**Homogeneous Material No. 4 – Non-ACM Black Vent Pipe Mastic located in the roof of the Subject Property**



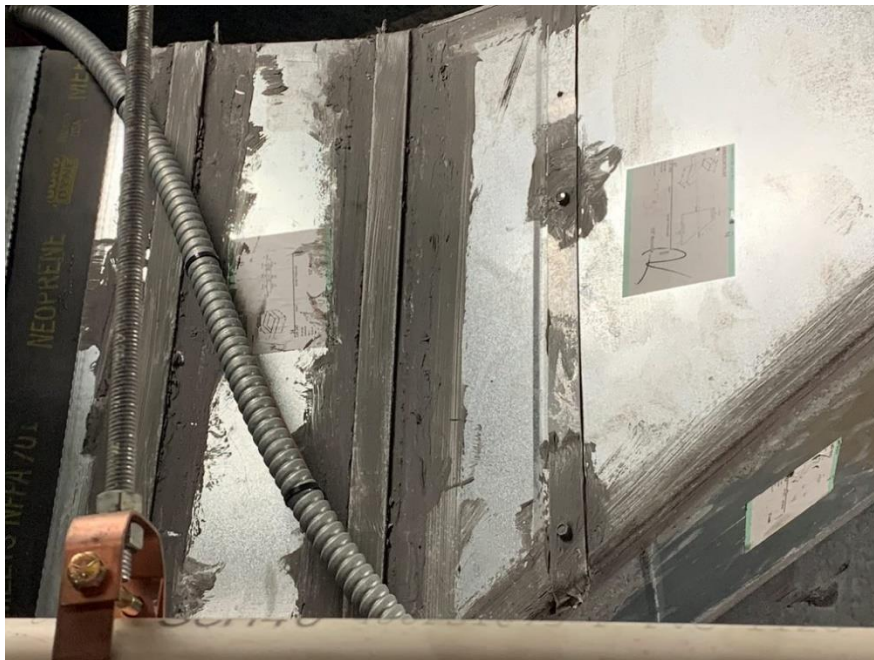
Homogeneous Material No. 5 – Non-ACM Gray Spray-on Fire Proofing located in the Building Basement Corridor, Electrical Room and Boiler Room of the Subject Property



Homogeneous Material No. 6 – Non-ACM Cream Pipe Insulation Mastic located in the Building Basement, Corridor and Boiler Room of the Subject Property



**Homogeneous Material No. 7 –ACM 9” by 9” brown vinyl floor tile with black mastic located in the West Side of the Building Stairwell of the Subject Property**



**Homogeneous Material No. 8 – Non-ACM Gray HVAC Duct Seam Mastic located in the Building Basement, HVAC Room Number 1 and 2 of the Subject property**





Homogeneous Material No. 9 – Non-ACM Black/Gray/Yellow Mastic located in the Building Elevator of the Subject property



Homogeneous Material No. 10 – ACM Gray Pebble Pattern Resilient Sheet Flooring over Brown Vinyl Floor tiling with black mastic located in Building Main Floor, Corridor near Elevator



Homogeneous Material No. 11 – Non-ACM Plaster Gray Base White Skim Coat on Wall located in Building Main Floor, Corridor near Elevator of the Subject Property



Homogeneous Material No. 12 – Non-ACM 12” by 12” Gray Mottled Vinyl Floor Tile with Tan Mastic located in Building Main Floor, Flooring in Office Area on West Side of Building of the Subject Property





Homogeneous Material No. 13 – Non-ACM 4" Gray Vinyl Cove Base with Gray Mastic Located in the Building Main Floor, Flooring in Office Area on West Side of Building of the Subject Property



Homogeneous Material No. 14 – Non-ACM Gray Sink Bowl Coating located in the Building Main Floor, Break Room on West Side and on Building 2<sup>nd</sup> floor, Break Room on East Side of the Subject Property



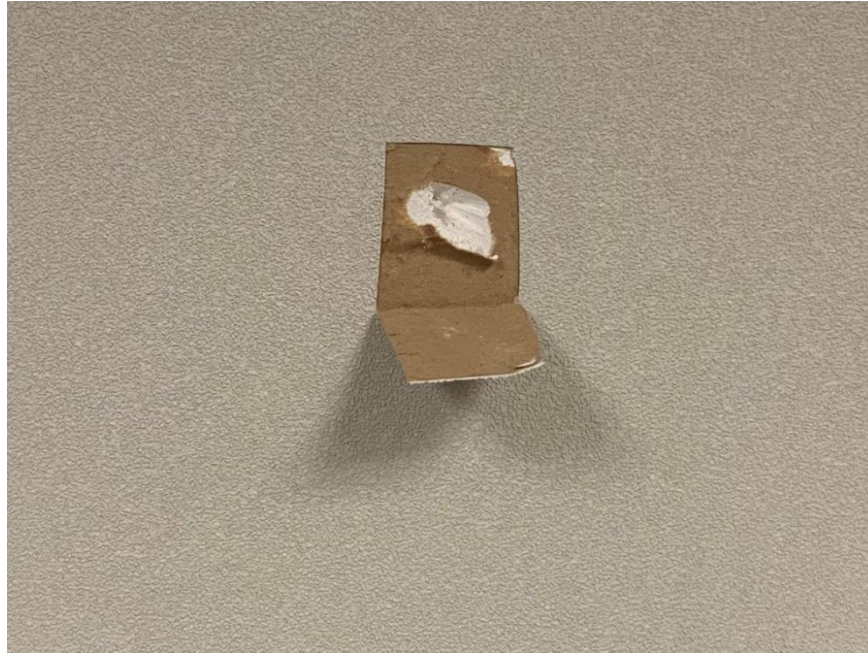


Homogeneous Material No. 15 – Non-ACM 4" Brown Vinyl Cove Base with Brown Mastic Located in the Building Main Floor, Flooring in Some of the Office Area on West Side of Building and Central Customer Area of the Subject Property



Homogeneous Material No. 16 – Non-ACM Brown/Tan/Black Floor Mastic located in the Building Main Floor, Main Customer Area of the Subject Property





**Homogeneous Material No. 17 – Non-ACM White Drywall with Associated White Joint Compound located in the Building Main Floor, 2<sup>nd</sup> Floor and 3<sup>rd</sup> Floor of the Subject Property**



**Homogeneous Material No. 18 – ACM 9" by 9" White Vinyl Floor Tile with Black Mastic located in the Building Mezzanine Floor, Office Space of the Subject Property**



**Homogeneous Material No. 19 – ACM 12” by 12” White Mottled Vinyl Floor Tile with Black Mastic and Gray/White Leveling Compound located throughout the Building 2<sup>nd</sup> Floor Office space of the Subject Property**



**Homogeneous Material No. 20 – ACM 9” by 9” Green Vinyl Floor Tile with Black Mastic located in the building stairwell on East Side**





**Homogeneous Material No. 21 – ACM Tan carpet glue with black mastic Located Throughout the offices on the Building 3<sup>rd</sup> floor of the Subject Property**



**Homogeneous Material No. 22 – ACM White Setting Bed with Black Mastic located in the Building 3<sup>rd</sup> Floor Break Room on West Side and throughout the 3<sup>rd</sup> floor office areas of the Subject Property**



**Homogeneous Material No. 23 – ACM 12” by 12” Gray/Black Specs Vinyl Floor Tile with Yellow Mastic over Gray Vinyl Floor Tile with Black Mastic over Gray Vinyl Floor Tile with Yellow Mastic over Cream Resilient Floor Sheet with Black Mastic located in the Building 3<sup>rd</sup> Floor Office Space on Northwest Corner**



**Homogeneous Material No. 24 – ACM Gray Interior Window Glazing Located in the interior windows on the 3rd floor and throughout the building of the subject property**



**PHOTOGRAPHIC LOG**  
**(May 20, 2022)**



Lead-Containing Paint on the stairwell stair riser on the east side leading from the 1st floor to the 2nd floor.



Lead-Containing Paint on the White metal column at the building rear and front entrance.





Lead-Containing Paint on the cream metal I-beam at the building rear and front entrance.



Lead-Containing Paint on the white metal window lintel at the building front entrance.

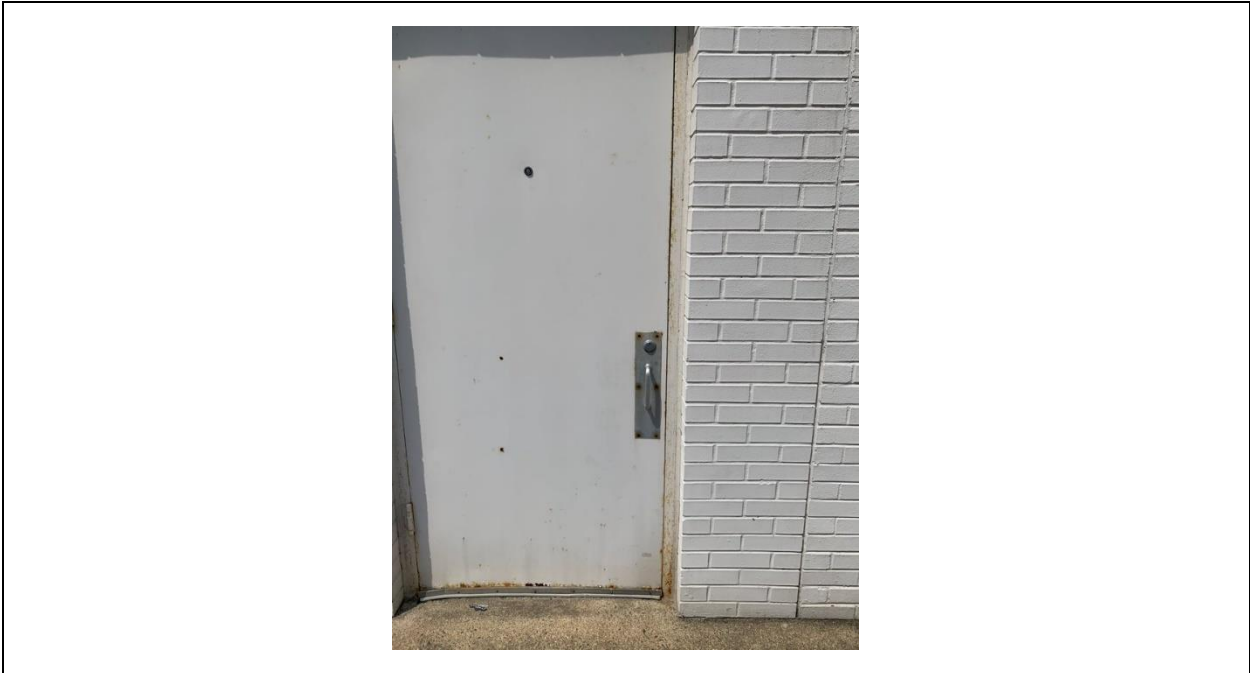


Lead-Containing Paint on the cream metal I-beam at the building front entrance.



Lead-Containing Paint on the white metal column at the building front entrance.





Lead-Containing Paint on the cream metal door casing and door lintel at the building side entrance.

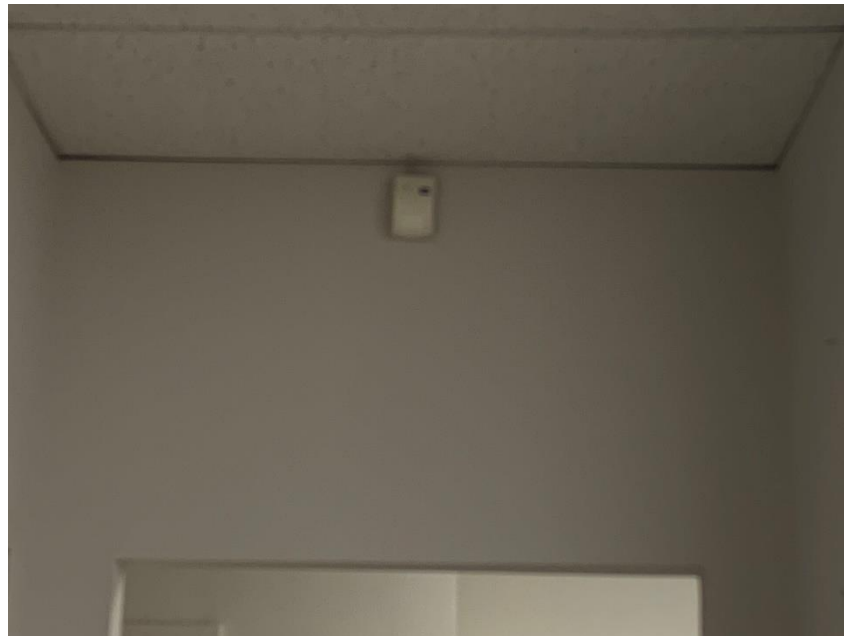


View of the columns and I-Beams at the building rear entrance.

**PHOTOGRAPHIC LOG  
(Other Hazardous Materials)**



Typical Lighted Exit Sign at the subject property building.



Typical Motion Sensor at the subject property building.

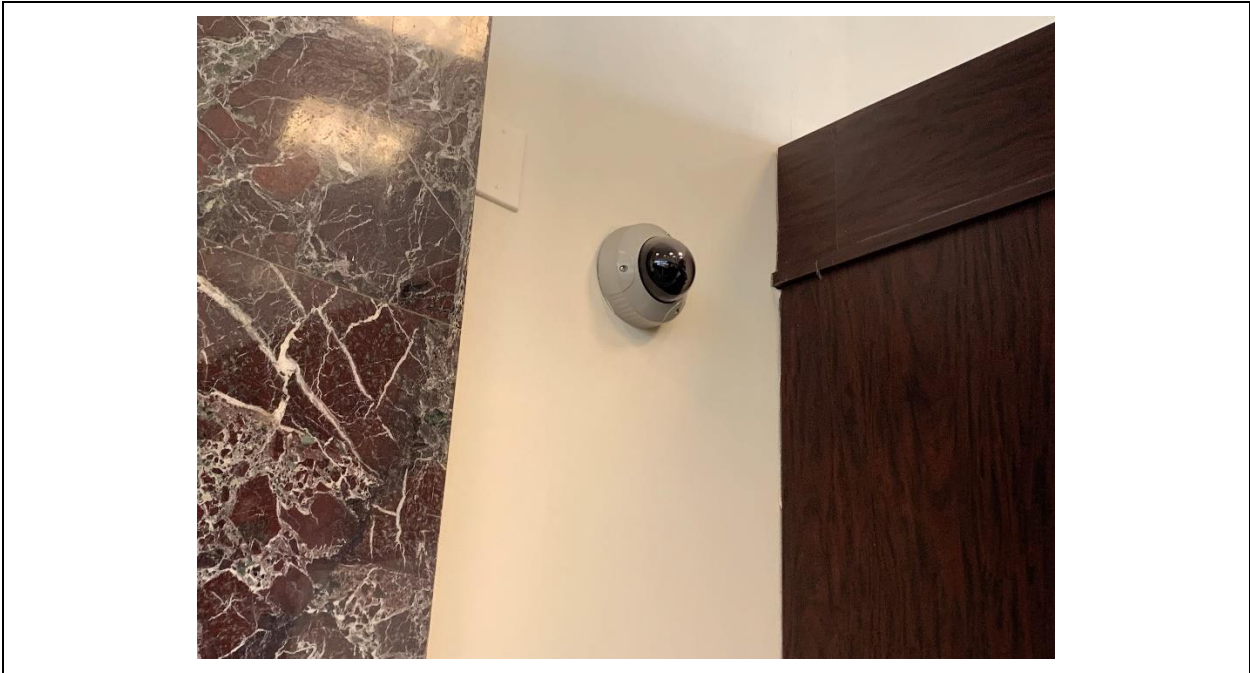


Typical digital thermostat at the subject property building.

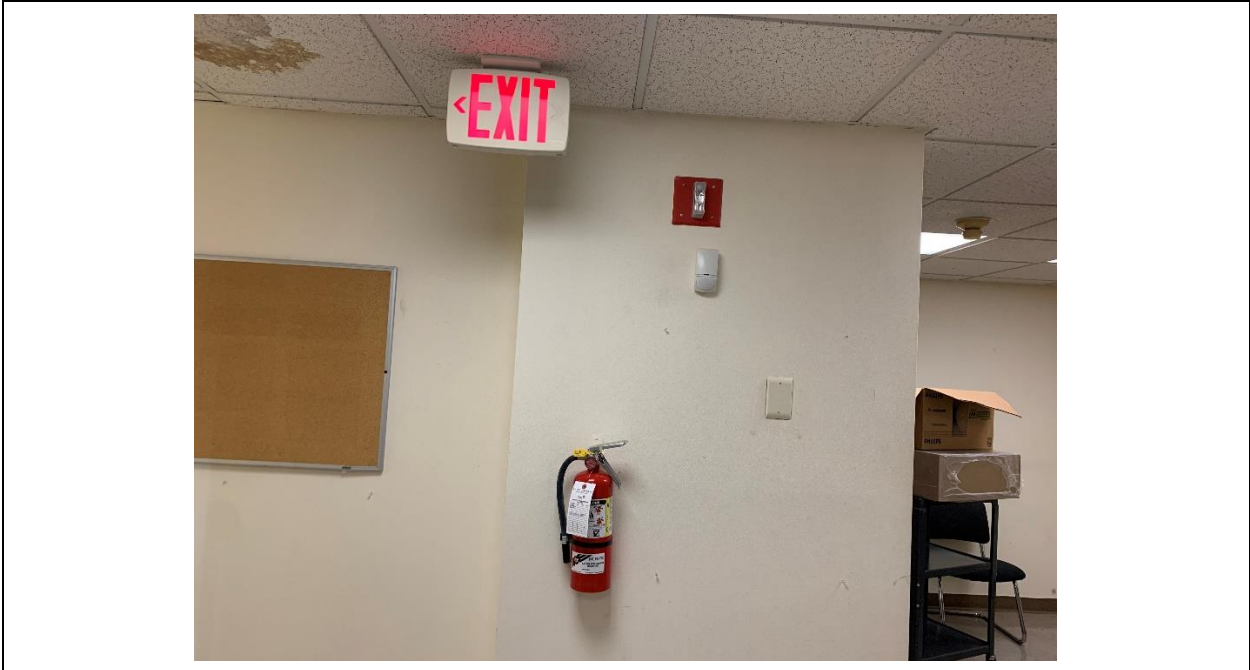


Typical Lighted Exit sign and Fire Emergency Pull-Down station at the subject property building.





Typical Fire Emergency lighting at the subject property building.



Typical Fire Extinguisher and Emergency Fire Strobe Lighting at the subject property building.





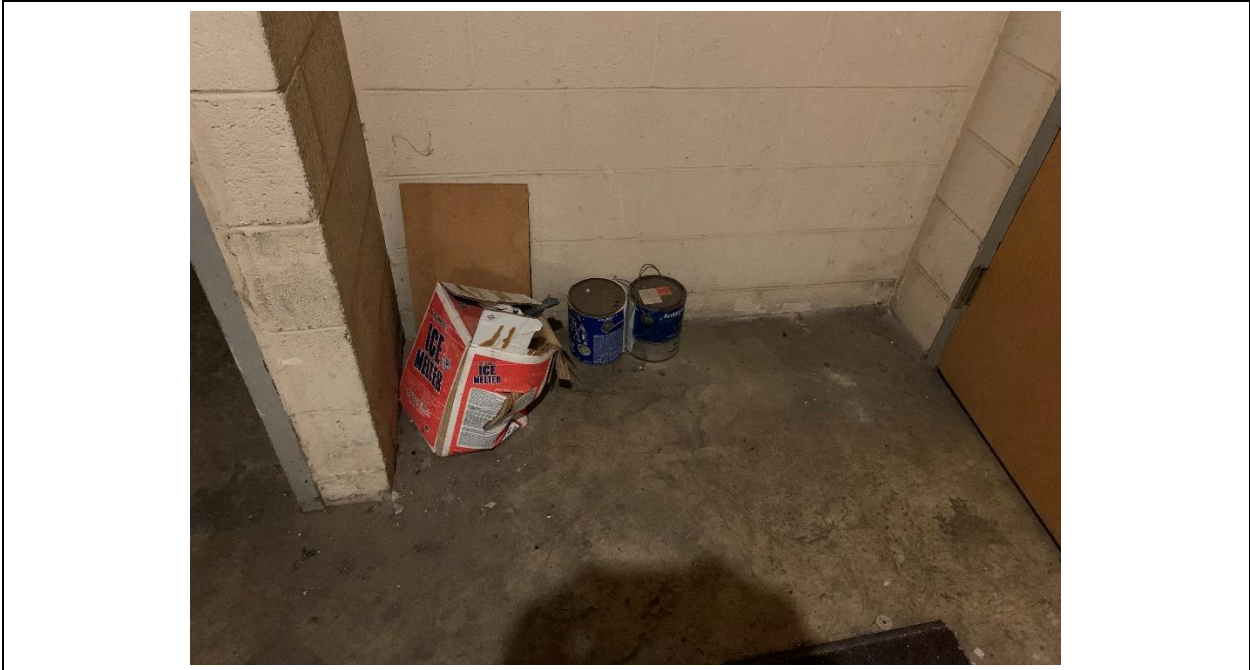
Typical Ceiling-Mounted Smoke Detector at the subject property building.



Wireless Control System components at the subject property building.



Control Box in the elevator room of the subject property building.



Miscellaneous Paint Cans in the Basement of the subject property building.



Domestic water heater (boiler) in the basement of the subject property building.



Fire Control Panel at the subject property building.





Old CRT TV monitor on the Main level of the subject property building.