THE CITADEL		
	Solicitation Number	**IFB 23019-JD**
	Addendum #	**1**
	Date Issued	**03/27/2023**
	Procurement Officer	**James de Luca, CPPO**
	Phone	**843-953-6861**
	E-Mail Address	**jdeluca@citadel.edu**

SOLICITATION TITLE: IFB 23019-JD 301-308 Mims Ave. Window, Gutters & Downspout Replacement.

TYPE OF ADDENDUM:

☒ Change or clarification to the Solicitation's specifications, requirements, or scope of work.

☐ Questions posed regarding the Solicitation and their respective answers by The Citadel.

DESCRIPTION OF CHANGES: Please amend item 2.9 on page 15 to read as follows:

2.9 The window glazing and exterior caulk surrounding the windows in Mims units 301-304 contain asbestos as noted in attached hazmat report. As part of the window removal and replacement, the contractor will be responsible for properly removing and disposing of the caulk and windows. The windows can be removed intact and disposed of. This is typically done by removing the window entirely, keeping glazing intact, and disposing of as ACM. The identified caulking is on the exterior of the windows and is around the perimeter of each window. This caulking should be removed separately from the windows but can be done at the same time. The removal should take place just before installing the new windows. See installation details below.

The attached hazmat report is added to IFB 23019-JD. No change to the dates of submission.

☐ Other Change:

IMPORTANT NOTICE:

☒ Contractor is required to acknowledge receipt of this Addendum by signing below and returning a copy with its Offer.

Except as provided herein, all terms and conditions of the Solicitation referenced above remain unchanged and in full force and effect.

SIGNATURE OF PERSON AUTHORIZED TO EXECUTE ON BEHALF OF OFFEROR

Signature: _____

Printed Name & Title:_____

Company Name:_____

Date:_____

February 3, 2023

The Citadel, Military College of South Carolina
171 Moultrie Street
Charleston, South Carolina 29409

Attention: Ms. Claire Bowman, Project Manager
cbowman4@citadel.edu

Reference: **Asbestos and Lead-Based Paint Assessment Report**
301-304 Mims Avenue and 305-308 Mims Avenue (Two Structures)
The Citadel
Charleston, South Carolina
S&ME Project No. 22130686

Dear Ms. Bowman:

S&ME, Inc. (S&ME) is pleased to provide this report summarizing the asbestos and lead-based paint assessment we performed at the referenced structures on January 17, 2023. Our services were performed in general accordance with S&ME Proposal No. 22130686 dated December 15, 2022. The following sections include the project background, sampling and analysis procedures, findings and results, and conclusions and recommendations.

This report is provided for the sole use of The Citadel. Use of this report by any other parties will be at such party's sole risk and S&ME, Inc. disclaims liability for any such use or reliance by third parties. The results presented in this report are indicative of conditions only during the time of the assessment and of the specific structure referenced. The information provided in this assessment report should not be used as a bidding document, and field conditions should be verified.

We appreciate the opportunity to provide you with our industrial hygiene services. If you have any questions concerning this report, please call us at (843) 884-0005.

Sincerely,

S&ME, Inc.

James L. McMillan
Project Industrial Hygienist

Terry W. Richburg
Operations Manager - Environmental

Attachment: Asbestos and Lead-Based Paint Assessment Report

Asbestos and Lead-Based Paint Assessment Report
301-304 Mims Avenue, 305-308 Mims Avenue (Two Structures)
The Citadel
Charleston, South Carolina
S&ME Project No. 22130686

Assessment Performed by:

2-3-2023

Josh B. Veloso (SCDHEC Accreditation #BI-001989) Date

Report Prepared by:

2-3-2023

James L. McMillan (SCDHEC Accreditation #BI-01643) Date

PREPARED FOR:

The Citadel, Military College of South Carolina
171 Moultrie Street
Charleston, SC 29409

PREPARED BY:

S&ME, Inc.
620 Wando Park Boulevard
Mt Pleasant, SC 29464

February 3, 2023

Table of Contents

Appendices

Executive Summary

An asbestos and lead-based paint assessment was conducted on January 17, 2023 of two structures located at 301-304 Mims Avenue and 305-308 Mims Avenue on the campus of the Citadel in Charleston, South Carolina. The assessment included the interior and exterior of each structure, excluding roofing materials. The purpose of the assessments was to identify the presence of asbestos containing materials (ACMs) and lead-based paints associated with the structures prior to renovation activities. The assessment also complies with federal, state, and local asbestos requirements regarding identification of ACMs and lead-based paints that may be disturbed due to renovation or demolition.

The structures located at 301-304 Mims Avenue and 305-308 Mims Avenue are similar in size, layout, and construction finishes. Each structure is two-stories, approximately 7,700 square feet in size, and situated on a crawlspace. Interior finishes consist of plaster walls and ceilings, and vinyl and wood floor coverings. Exterior finishes consist of concrete walls and a pitched, terracotta-tile roof. The structures were occupied at the time of assessment.

Asbestos Containing Materials

The suspect ACMs sampled and analyzed as part of the asbestos assessment of 301-304 Mims Avenue consist of spray-applied ceiling texture, plaster, vinyl sheet flooring, mastics associated with rubber cove base, mastic associated with stainless steel sinks, pipe insulation debris, window glazing, window caulking, and mastic associated with heating, ventilation, and air conditioning (HVAC) ducts.

The suspect ACMs sampled and analyzed as part of the assessment of 305-308 Mims Avenue consist of pipe insulation, plaster, vinyl sheet floorings and associated mastics, mastic associated with rubber cove base, mastics associated with stainless steel sinks, floor felt, and mastic associated with HVAC ducts.

Of the representative materials sampled and analyzed as part of this assessment, the identified ACMs are summarized in the table (Table 1) on the following page.

Table 1: Summary of Confirmed ACMs

Material	HA	Location	Asbestos Type	Percent	Condition	Potential for Disturbance	*Approx. Quantity
301-304 Mims Avenue							
Spray-Applied Ceiling Texture	TX	Unit 301 – Living Room and Den	Chrysotile	2	G, F	PD	620 SF
[1]Pipe Insulation Debris	PID1	Crawlspace	Amosite Chrysotile	15 2	SD, F	PD	6 SF
[1]Pipe Insulation Debris	PID2	Crawlspace	Chrysotile	70	SD, F	PD	6 SF
Window Glazing	WG	Exterior Windows	Chrysotile	2	G, F	PD	4,100 LF
Window Caulking	WC	Exterior Windows	Chrysotile	6.6	G, F	PD	1,200 LF
305-308 Mims Avenue							
[1]Pipe Insulation, Elbows, and Debris (3" O.D.)	PI	Unit 305 – Crawlspace	Chrysotile	55	SD, F	PD	4 LF
Sink Mastic (white)	SM2	Units 307 and 308 – Kitchen Stainless Steel Sinks	Chrysotile	2	G, NF	PD	12 SF (2 Sinks)

*The quantities are estimated and should be field verified for bidding purposes.

[1]Asbestos containing pipe insulation debris may be present on other crawlspace areas of each structure. Soils in contact with identified debris should be treated as ACM. Asbestos containing pipe insulation and elbows should be assumed present in wall voids of each structure.

Abbreviations:

HA = homogeneous area SF = square feet LF = linear foot G = good
D = damaged SD = significantly damaged NF = non-friable F = friable
LPD = low potential for disturbance PD = potential for disturbance PSD = potential for sig. disturbance

The identified asbestos-containing spray-applied ceiling texture, window glazing, window caulking, pipe insulation and elbows are classified as friable ACMs, in good condition with a potential for disturbance due to the planned renovation activities. The asbestos-containing pipe insulation debris are classified as friable ACMs, in significantly damaged condition, with a potential for disturbance due to the planned renovation activities. The asbestos-containing sink mastic is classified as a Category I non-friable ACM in good condition, with a potential for disturbance as well. No asbestos was detected in the remaining bulk samples collected and analyzed.

Limited pipe insulation debris was identified in the crawlspace of 301-304 Mims Avenue. Based on the assessment and on-site observations, asbestos containing pipe insulation debris may be present in additional

areas of each crawlspace, and asbestos containing pipe insulation and associated elbows should be assumed present in the wall voids of both structures.

The Environmental Protection Agency (EPA), South Carolina Department of Health and Environmental Control (SCDHEC), and Occupational Safety and Health Administration (OSHA) define a material an ACM if an asbestos content greater than one percent (>1%) is detected in a representative sample.

We recommend proper removal and disposal of the identified ACMs by a SCDHEC licensed asbestos abatement contractor prior to any disturbance, as required by the EPA and SCDHEC. Onsite asbestos air monitoring must be performed by a SCDHEC licensed Air Sampler, prior to, during, and following removal of indoor friable ACMs or indoor non-friable ACMs rendered friable and totaling 160 square feet or greater or 260 linear feet or greater. The SCDHEC also requires a written project design, prepared by a SCDHEC Project Designer, when an asbestos project involves 3,000 square or 1,500 linear feet of friable (regulated) ACMs. Soil in contact with pipe insulation debris should be treated as ACM, and additional debris may be present in various areas of the crawlspaces associated with both structures.

If additional suspect ACMs not addressed in this report are discovered during the planned destructive activities, bulk samples must be collected by a SCDHEC licensed inspector and analyzed for asbestos content prior to disturbance or disposal of the suspect material(s). A copy of this report should also be provided to the contractor(s) working in the facility to assist with compliance with applicable state and federal regulations.

Lead-Based Paint and Materials

A lead-based paint assessment was performed concurrently with the asbestos assessment, of representative painted components associated with the interior and exterior of the referenced structures. The components were analyzed using direct measurement X-Ray Fluorescence (XRF) technology using a Heuresis Pb200i (serial #1852). For the purpose of this assessment, painted surfaces with lead concentrations meeting the SCDHEC disposal limit (0.7 mg/cm^2) are considered lead-based paint.

Of the representative suspect paint and materials tested, the following paint and materials exhibited a lead concentration meeting the SCDHEC disposal limit of 0.7 mg/cm^2:

301 – 304 Mims Avenue

- Interior door casings (white paint on wood) – Intact condition
- Interior window casings, sills, aprons, and sashes (white paint on wood) – Intact condition
- Interior baseboards (white paint on wood) – Intact condition
- Interior ceiling trim (white paint on wood) – Intact condition
- Interior stair risers and stringers (white paint on wood) – Intact condition
- Bathroom cabinetry (white paint on wood) – Intact condition
- Exterior doors and casings (green paint on wood) – Intact condition
- Exterior trim (green paint on wood) – Intact condition
- Glazing on porcelain bathtubs – Intact condition

- Glazing on ceramic wall tile in bathrooms – Intact condition

305 – 308 Mims Avenue

- Interior door casings (white paint on wood) – Intact and deteriorated (Unit 307) condition
- Interior window casings, sills, and aprons (white paint on wood) – Intact and deteriorated condition
- Interior baseboards (white paint on wood) – Intact condition
- Interior ceiling trim (white paint on wood) – Intact condition
- Interior stair risers and stringers (white paint on wood) – Intact condition
- Bathroom cabinetry (white paint on wood) – Intact condition
- Exterior doors and casings (green paint on wood) – Intact condition
- Exterior ceilings and trim (green paint on wood) – intact condition
- Glazing on porcelain bathtubs – Intact condition
- Glazing on ceramic wall tile in bathrooms – Intact condition

The identified paints were in intact to deteriorated condition at the time of assessment. Low levels of lead were also detected which may be applicable to the standards of the OSHA 29 CFR 1926.62 (Lead in Construction), dependent upon the tasks impacting those surfaces.

Prior to renovation activities, the identified building components exhibiting lead-based paint may have the surfaces stabilized and prepared to the extent suitable for the new replacement coatings/finishes, or those lead-based paint coatings may be subject to complete removal by means of a specifically manufactured and marketed product suitable for the chemical removal of lead-based paint. Component removal of the items containing lead-based paint requires disposal in a Class II or Class III landfill.

Accumulations of paint waste (sludge, chips, dust, or flakes) and lead contaminated products must be tested by the Toxicity Characteristic Leachate Procedure (TCLP) to determine if the waste is classified as hazardous, which requires disposal in a Subtitle C (hazardous waste) landfill. Lead waste, at a minimum, must be disposed in a Class II or III landfill.

Destructive actions to paint containing detectable levels of lead (e.g. component removal, demolition, sanding, grinding, burning, paint preparation, etc.) will require the contractor comply with the standards of the OSHA regulation 29 CFR 1926.62 (Lead in Construction), including but not limited to training, initial exposure monitoring, the use of personal protective equipment, and medical surveillance.

This summary is for convenience of the reader and should not be completely relied upon without reviewing the full contents of this report, including appended materials.

1.0 Background

S&ME, Inc. (S&ME) was contracted by the Citadel to perform an asbestos and lead-based paint assessment at 301-304 Mims Avenue and 305-308 Mims Avenue on the campus of the Citadel in Charleston, South Carolina. The assessment was subsequently performed on January 17, 2023, by James McMillan and Josh Veloso, of S&ME. The assessment included the interior and exterior of each structure, excluding roofing materials. The purpose of the assessment is to identify the presence of asbestos containing materials (ACMs) and lead-based paint associated with the referenced structures to support planned renovation activities. The assessment also complies with federal, state, and local asbestos requirements regarding identification of ACMs that may be disturbed due to renovation or demolition.

The asbestos assessment was conducted to assess, sample, and identify ACMs in accordance with regulatory requirements. The identification of ACMs will aid in the prevention of occupational exposures and/or environmental releases of airborne asbestos. Identification of ACMs also complies with Title 40 Code of the Federal Regulations, part 61, and State Regulation 61-86.1 (Standards of Performance for Asbestos Projects) enforced by the South Carolina Department of Health and Environmental Control (SCDHEC), along with Title 29 Code of Federal Regulations, part 1926 enforced by the Occupational Safety and Health Administration (OSHA). The following sections describe the assessment procedures used, results of the suspect ACMs sampled and analyzed, and conclusions and recommendations related to ACMs.

The purpose of the lead-based paint testing was to assess and identify lead-based paint coatings associated with the structure. The identification of these coatings and materials will aid in the compliance of occupational exposure (OSHA) and/or environmental releases of airborne lead dust in accordance with OSHA 29 CFR 1926.62 (Lead in Construction) and provide information to determine proper disposal of lead-based paint coated components and debris in accordance with the SCDHEC and the Environmental Protection Agency (EPA).

2.0 Site and Project Description

2.1 Purpose

The purpose of the assessment was to identify the presence of ACMs and lead-based paint associated with the referenced structures prior to planned renovation activities. The assessment included the interior and exterior of each structure, excluding the roofs. An assessment strategy appropriate for this purpose was presented in our proposal and is described in this report. The report should be interpreted only with regard to the specific location and materials referenced.

2.2 Site Description

The structures located at 301-304 Mims Avenue and 305-308 Mims Avenue are generally similar in size, layout, and interior and exterior finishes. The structures are two-stories, approximately 7,700 square feet in size, and situated on a crawlspace. Interior finishes consist of plaster walls and ceilings, and vinyl and wood floor coverings.

Exterior finishes consist of concrete walls and a pitched, terracotta-tile roof. The structures were occupied at the time of the assessment.

3.0 Assessment Procedures

The identification of ACMs will aid in the prevention of occupational exposures and/or environmental releases of airborne asbestos. Identification of ACMs also complies with Title 40 Code of the Federal Regulations, part 61, and State regulation 61-86.1 enforced by the South Carolina Department of Health and Environmental Control (SCDHEC), along with Title 29 Code of Federal Regulations, part 1926 enforced by the Occupational Safety and Health Administration (OSHA). The following sections describe the assessment procedures used, results of the suspect ACMs sampled and analyzed, and conclusions and recommendations related to ACMs.

3.1 Asbestos Containing Materials

The assessment was performed by observing and sampling suspect ACMs associated with the interior and exterior of the referenced structure, excluding roofing materials. The possibility exists that suspect materials were undetected in inaccessible areas such as wall voids, pipe chases, and flooring overlays. If additional suspect ACMs not identified in this report are discovered during destructive activities, bulk samples must be collected by a SCDHEC licensed inspector and analyzed for asbestos content prior to disturbance or disposal of the suspect materials.

The suspect ACMs were quantified and subject to a physical condition assessment. A sampling strategy was then developed to provide representative samples in accordance with the SCDHEC and EPA. Suspect ACMs observed were classified based on their condition (good, damaged, or significantly damaged) and potential for disturbance. Bulk samples of suspect ACMs were collected by a SCDHEC licensed inspector. The bulk samples were then extracted from suspect ACMs and recorded on a chain of custody record and submitted to our in-house Polarized Light Microscopy (PLM) laboratory. The samples were subsequently analyzed by PLM, and confirmation analysis was performed by Transmission Electron Microscopy (TEM) by *EMSL Analytical*, for non-friable organically bound materials reported negative by PLM. The laboratories are located in Charlotte, North Carolina and are accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), which is administered by the National Institute of Standards and Technology.

Polarized Light Microscopy (PLM)

The suspect materials were analyzed by trained microscopists using PLM techniques coupled with dispersion staining in accordance with EPA Test Method Title 40 Code of Federal Regulations, Chapter I (1-1-87 edition), Part 763, Subpart F-APPENDIX A. This method identifies asbestos mineral fibers based on six optical characteristics: morphology, birefringence, refractive index, extinction angle, sign of elongation and dispersion staining colors. The laboratory analysis reports the specific type of asbestos identified (there are six asbestos minerals) and the percentage of asbestos present.

Transmission Electron Microscopy (TEM)

One representative sample from each suspect non-friable organically bound homogeneous material, which exhibited negative results via PLM analysis, was analyzed by trained microscopists via TEM, in accordance with ASTM E2356 per SCDHEC requirements.

Identified ACMs were categorized based on the Environmental Protection Agency's (EPA) NESHAP regulation categories. A friable ACM is classified as an ACM that can be crumbled to a powder by moderate hand pressure. A non-friable ACM is classified as either Category I or Category II non-friable ACM. Category I and Category II non-friable ACMs are distinguished from each other by their fiber release potential when damaged. Generally, Category I non-friable ACM, which by definition includes intact asbestos-containing roofing materials, gaskets, packing, and resilient floor coverings, is less likely to become friable and release fibers in a damaged state. Category II non-friable ACM include all other non-friable ACMs excluding Category I that have a high probability of being rendered friable during removal activities or demolition. All friable ACM, Category I non-friable ACM that has become friable, Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or 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 are considered to be a Regulated Asbestos-Containing Material (RACM).

3.2 Lead-Based Paint

A lead assessment and testing was performed on representative suspect painted components associated with the interior and exterior of the subject structures. The components were tested using a Heuresis Pb200i (serial #1852) XRF Lead Analyzer. The suspect paint coatings were selected based on the color of the topcoat and the underlying paint layers and/or the substrate on which it was applied. The possibility exists that lead-based paint and glazed finishes are present in inaccessible areas. The SCDHEC defines a lead-based paint as any paint containing lead at concentrations equaling 0.7 mg/cm^2 or greater by XRF testing. For the purpose of the assessment, paint containing 0.7 mg/cm^2 or greater was considered lead-based paint due to the planned demolition and disposal.

The OSHA does not recognize a threshold level of lead for definition purposes, only the airborne concentration of lead a worker is exposed. The current OSHA regulations recognize an airborne action level of 30 micrograms per cubic meter (µg/m^3) during an eight-hour day and a permissible exposure limit of 50 µg/m^3.

4.0 Findings and Results

4.1 Asbestos Containing Materials

The suspect ACMs sampled and analyzed as part of the asbestos assessment at 301-304 Mims Avenue consist of spray-applied ceiling texture, plaster, vinyl sheet floorings, mastics associated with rubber cove base, mastic associated with stainless steel sinks, pipe insulation debris, window glazing, window caulking, and mastic associated with heating, ventilation, and air conditioning (HVAC) ducts.

The suspect ACMs sampled and analyzed as part of the assessment at 305-308 Mims Avenue consist of pipe insulation, plaster, vinyl sheet floorings and associated mastics, mastic associated with rubber cove base, mastics associated with stainless steel sinks, floor felt, and mastic associated with HVAC ducts.

Of the representative materials sampled and analyzed as part of this assessment, the identified ACMs are summarized in the table (Table 2) below.

Table 2: Summary of Confirmed ACMs

Material	HA	Location	Asbestos Type	Percent	Condition	Potential for Disturbance	*Approx. Quantity
301-304 Mims Avenue							
Spray-Applied Ceiling Texture	TX	Unit 301 – Living Room and Den	Chrysotile	2	G, F	PD	620 SF
[1]Pipe Insulation Debris	PID1	Crawlspace	Amosite Chrysotile	15 2	SD, F	PD	6 SF
[1]Pipe Insulation Debris	PID2	Crawlspace	Chrysotile	70	SD, F	PD	6 SF
Window Glazing	WG	Exterior Windows	Chrysotile	2	G, F	PD	4,100 LF
Window Caulking	WC	Exterior Windows	Chrysotile	6.6	G, F	PD	1,200 LF
305-308 Mims Avenue							
[1]Pipe Insulation, Elbows, and Debris (3" O.D.)	PI	Unit 305 – Crawlspace	Chrysotile	55	D, F	PD	4 LF
Sink Mastic (white)	SM2	Units 307 and 308 – Kitchen Stainless Steel Sinks	Chrysotile	2	G, NF	PD	12 SF (2 Sinks)

*The quantities are estimated and should be field verified for bidding purposes.

[1]Asbestos containing pipe insulation debris may be present on other crawlspace areas of each structure. Soils in contact with identified debris should be treated as ACM. Asbestos containing pipe insulation and elbows should be assumed present in wall voids of each structure.

Abbreviations:

HA = homogeneous area SF = square feet LF = linear foot G = good
D = damaged SD = significantly damaged NF = non-friable F = friable
LPD = low potential for disturbance PD = potential for disturbance PSD = potential for sig. disturbance

The identified asbestos-containing spray-applied ceiling texture, window glazing, window caulking, pipe insulation and elbows are classified as friable ACMs, in good condition with a potential for disturbance due to the planned renovation activities. The asbestos-containing pipe insulation debris are classified as friable ACMs, in significantly damaged condition, with a potential for disturbance due to the planned renovation activities. The asbestos-containing sink mastic is classified as a Category I non-friable ACM in good condition with a potential for disturbance as well. No asbestos was detected in the remaining bulk samples collected and analyzed.

Limited pipe insulation debris was identified in the crawlspace of 301-304 Mims Avenue. Based on the assessment and on-site observations, asbestos containing pipe insulation debris may be present in various areas of each crawlspace, and asbestos containing pipe insulation and associated elbows should be assumed present in the wall voids of both structures.

The EPA, SCDHEC, and OSHA define a material an ACM if an asbestos content greater than one percent (>1%) is detected in a representative sample.

A summary of asbestos results is provided in Appendix I, and exhibits the sample number, location, type of material tested, approximate quantity of the material sampled, condition of the material, and corresponding result for each sample. Diagrams of bulk sample locations and identified materials are provided in Appendix II, and copies of the inspectors' SCDHEC licenses are provided in Appendix III. The laboratory analyses and chain-of-custody records are provided in Appendix IV.

4.2 Lead-Based Paint and Materials

Of the representative suspect painted components tested as part of the assessment, the following surfaces and materials exhibited lead concentrations meeting the SCDHEC disposal limit of 0.7 mg/cm^2:

301 – 304 Mims Avenue

- Interior door casings (white paint on wood) – Intact condition
- Interior window casings, sills, aprons, and sashes (white paint on wood) – Intact condition
- Interior baseboards (white paint on wood) – Intact condition
- Interior ceiling trim (white paint on wood) – Intact condition
- Interior stair risers and stringers (white paint on wood) – Intact condition
- Bathroom cabinetry (white paint on wood) – Intact condition
- Exterior doors and casings (green paint on wood) – Intact condition
- Exterior trim (green paint on wood) – Intact condition
- Glazing on porcelain bathtubs – Intact condition
- Glazing on ceramic wall tile in bathrooms – Intact condition

305 – 308 Mims Avenue

- Interior door casings (white paint on wood) – Intact and deteriorated (Unit 307) condition
- Interior window casings, sills, and aprons (white paint on wood) – Intact and deteriorated condition
- Interior baseboards (white paint on wood) – Intact condition

- Interior ceiling trim (white paint on wood) – Intact condition
- Interior stair risers and stringers (white paint on wood) – Intact condition
- Bathroom cabinetry (white paint on wood) – Intact condition
- Exterior doors and casings (green paint on wood) – Intact condition
- Exterior ceilings and trim (green paint on wood) – intact condition
- Glazing on porcelain bathtubs – Intact condition
- Glazing on ceramic wall tile in bathrooms – Intact condition

The identified paints and lead glazings were in intact to deteriorated condition at the time of assessment. Low levels of lead were detected which may be applicable to the standards of the OSHA 29 CFR 1926.62 (Lead in Construction) dependent upon the tasks impacting those surfaces.

A summary of the XRF readings is provided in Appendix V and should be reviewed in full.

5.0 Conclusions and Recommendations

The asbestos and lead-based paint assessment performed on January 17, 2023 of the two structures located at 301-304 Mims Avenue and 305-308 Mims Avenue on the campus of the Citadel in Charleston, South Carolina identified the presence of friable ACMs in good to significantly damaged condition, and Category I non-friable ACMs in good condition, and lead-based paint. Additionally, low levels of lead applicable to the standards of the OSHA were identified.

This report should be provided to the contractor(s) to assist with compliance with applicable State and Federal regulations. This report should not be used as a bidding document, project design or specification for the abatement of hazardous materials.

5.1 Asbestos

Due to the planned demolition activities, we recommend proper removal and disposal of the identified ACMs by a SCDHEC licensed asbestos abatement contractor prior to any disturbance, as required by the EPA and SCDHEC. Onsite asbestos air monitoring must be performed by a SCDHEC licensed Air Sampler, prior to, during, and following removal of indoor friable ACMs or indoor non-friable ACMs rendered friable and totaling 160 square feet or greater or 260 linear feet or greater. The SCDHEC also requires a written project design, prepared by a SCDHEC Project Designer, when an asbestos project involves 3,000 square or 1,500 linear feet of friable (regulated) ACMs. Soil in contact with pipe insulation debris in the crawlspace should be treated as ACM, and additional debris may be present in various areas of the crawlspaces associated with both structures.

If additional suspect ACMs not addressed in this report are discovered during the planned destructive activities, bulk samples must be collected by a SCDHEC licensed inspector and analyzed for asbestos content prior to disturbance or disposal of the suspect material(s).

5.2 Lead-Based Paint

Lead-based paint and lead containing materials, as defined by the SCDHEC, require proper handling and disposal. Prior to renovation activities, the identified building components exhibiting lead-based paint may have the surfaces stabilized and prepared to the extent suitable for the new replacement coatings/finishes, or those lead-based paint coatings may be subject to complete removal by means of a specifically manufactured and marketed product suitable for the chemical removal of lead-based paint. Component removal of the items containing lead-based paint requires disposal in a Class II or Class III landfill.

Accumulations of paint waste (sludge, chips, dust, or flakes) and lead contaminated products must be tested by the Toxicity Characteristic Leachate Procedure (TCLP) to determine if the waste is classified as hazardous, which requires disposal in a Subtitle C (hazardous waste) landfill. Lead waste, at a minimum, must be disposed in a Class II or III landfill.

Destructive actions to paint containing detectable levels of lead (e.g. component removal, demolition, sanding, grinding, burning, paint preparation, etc.) will require the contractor comply with the standards of the OSHA regulation 29 CFR 1926.62 (Lead in Construction), including but not limited to training, initial exposure monitoring, the use of personal protective equipment, and medical surveillance.

Paint coatings may be present that contain low levels of lead that cannot be detected by X-ray fluorescence and may be applicable to OSHA regulations 29 CFR 1926.62. The quantities reported by XRF may be useful in determining the relative risk associated with various demolition tasks, for example disturbances to paints with low lead levels may be less likely to result in airborne lead exposures in excess of the OSHA Action Level.

6.0 Assumptions and Limitations

This report is provided for the sole use of the Citadel. Use of this report by any other parties will be at such party's sole risk, and S&ME disclaims liability for any such use or reliance by third parties. The results presented in this report are indicative of conditions only during the time of the sampling period and of the specific areas referenced. Under no circumstances is this report to be used as a bidding document, or as a project design or specification.

S&ME performed the services in accordance with generally accepted practices of reputable environmental consultants undertaking similar studies at the same time and in the same geographical area. S&ME has endeavored to meet this standard of care. No other warranty, expressed or implied, is intended or made with respect to this report or S&ME's services. Users of this report should consider the scope and limitations related to these services when developing opinions as to risks associated with the site.

This assessment did not include roofing materials. The findings of the asbestos assessment were based largely on visual observations within the amount of time available. The findings do not warrant that all asbestos-containing materials have been identified; suspect asbestos-containing materials may be present in areas not readily accessible to observation. In addition, the actual locations and quantities of materials may vary from those herein. Apparent homogeneous sampling areas may vary in actual asbestos or lead content due to previous renovations,

maintenance, or related operations. The possibility exists that suspect materials were undetected in inaccessible or concealed areas such as under multiple flooring layers, inaccessible crawlspace areas, and inside pipe chases or wall/floor voids. If additional suspect materials are discovered during the planned destructive activities, bulk samples must be sampled and analyzed by qualified entities.

The findings of the lead assessment were based largely on visual observations within the amount of time available, and the specific number of areas analyzed. The findings do not warrant that all painted surfaces or materials containing lead have been identified; different underlying painted surfaces which contain lead could exist under similar top layers. Also, apparent similarly painted surfaces may vary in actual lead content.

Appendices

Appendix I – Summary of Asbestos Results

Table I: Summary of Asbestos Results

HA	Material Description	Material Location	[2]Approx. Quantity	Cat. (F/I/II)	Type	Condition/ Potential for Disturbance	Sample Number	Sample Location	[1]Type and Percent Asbestos
301 - 304 Mims Avenue									
TX	Spray-Applied Ceiling Texture	301 - Living Room and Den	620 SF	F	Sur	G, PD	MA-TX-01	301 Living Room	Chrysotile <1
							MA-TX-02	301 Living Room	**Chrysotile 2**
							MA-TX-03	301 Living Room	**Chrysotile 2**
P	Plaster Skim coat Plaster Basecoat	Throughout Walls and Ceilings		F	Sur	NA	MA-P-01	301 Living Room	ND ND
							MA-P-02	301 Bathroom	ND ND
							MA-P-03	301 Staircase	ND ND
							MA-P-04	302 Closet	ND ND
							MA-P-05	304 Closet	ND ND
							MA-P-06	303 Closet	ND ND
							MA-P-07	303 Kitchen	ND ND
SF1	Vinyl Sheet Flooring (white)	301 and 302 - Office, Kitchen, and Laundry Room	700 SF	NF Cat I	Misc	NA	MA-SF1-01	301 Laundry	ND
							MA-SF1-02	301 Laundry	ND
							[3]MA-SF1-03	302 Kitchen	ND
SF2	Vinyl Sheet Flooring (brown)	302 Kitchen - Bottom Layer	190 SF	NF Cat I	Misc	NA	MA-SF2-01	302 Kitchen	ND
							MA-SF2-02	302 Kitchen	ND
							[3]MA-SF2-03	302 Kitchen	ND

Table I: Summary of Asbestos Results

HA	Material Description	Material Location	[2]Approx. Quantity	Cat. (F/I/II)	Type	Condition/ Potential for Disturbance	Sample Number	Sample Location	[1]Type and Percent Asbestos
SF3	Vinyl Sheet Flooring (grey)	304 - Kitchen and Laundry Room	350 SF	NF Cat I	Misc	NA	MA-SF3-01	304 Laundry	ND
							MA-SF3-02	304 Laundry	ND
							[3]MA-SF3-03	304 Laundry	ND
SF4	Vinyl Sheet Flooring (dark grey)	303 - Office, Kitchen, and Laundry Room	350 SF	NF Cat I	Misc	NA	MA-SF4-01	303 Kitchen	ND
							MA-SF4-02	303 Kitchen	ND
							[3]MA-SF4-03	303 Kitchen	ND
CB	Mastic (tan) associated with Rubber Cove Base	Throughout Laundry Rooms	100 LF	NF Cat I	Misc	NA	MA-CB-01	301 Laundry	ND
							MA-CB-02	304 Laundry	ND
							[3]MA-CB-03	302 Laundry	ND
CB2	Mastic (black) associated with Rubber Cove Base	302 Laundry Room	25 LF	NF Cat I	Misc	NA	MA-CB2-01	302 Laundry	ND
							MA-CB2-02	302 Laundry	ND
							[3]MA-CB2-03	302 Laundry	ND
SM	Mastic (white) associated with Stainless Steel Sinks	Throughout Kitchen Stainless Steel Sinks	24 SF (4 sinks)	NF Cat I	Misc	NA	MA-SM-01	301 Kitchen	ND
							MA-SM-02	301 Kitchen	ND
							[3]MA-SM-03	304 Kitchen	ND
PID1	Pipe Insulation Debris	Southwest Crawlspace	6 SF	F	TSI	SD, PD	MA-PID1-01	Crawlspace	**Amosite 15 Chrysotile 2**
							MA-PID1-02	Crawlspace	*Not Analyzed*
							MA-PID1-03	Crawlspace	*Not Analyzed*
PID2	Pipe Insulation Debris	Southwest Crawlspace	6 SF	F	TSI	SD, PD	MA-PID2-01	Crawlspace	**Chrysotile 70**
							MA-PID2-02	Crawlspace	*Not Analyzed*
							MA-PID2-03	Crawlspace	*Not Analyzed*

Table I: Summary of Asbestos Results

HA	Material Description	Material Location	[2]Approx. Quantity	Cat. (F/I/II)	Type	Condition/ Potential for Disturbance	Sample Number	Sample Location	[1]Type and Percent Asbestos
WG	Window Glazing	Exterior Windows	4,100 LF	F	Misc	G, PD	MA-WG-01	301 Exterior	**Chrysotile 2**
							MA-WG-02	301 Exterior	*Not Analyzed*
							MA-WG-03	301 Exterior	*Not Analyzed*
WC	Window Caulking	Exterior Windows	1,200 LF	F	Misc	G, PD	MA-WC-01	301 Exterior	ND
							MA-WC-02	301 Exterior	ND
							[3]MA-WC-03	301 Exterior	**Chrysotile 6.6**
DM	Mastic (grey) associated with HVAC Ductwork	Exterior HVAC Units	50 SF	NF Cat I	Misc	NA	MA-DM-01	301 Exterior	ND
							MA-DM-02	301 Exterior	ND
							[3]MA-DM-03	301 Exterior	ND
305 - 308 Mims Avenue									
PI	Pipe Insulation, Elbows, and associated Debris (3" O.D.)	305 Crawlspace	4 LF	F	TSI	SD, PD	MAV-PI-01	Crawlspace	**Chrysotile 55**
							MAV-PI-02	Crawlspace	*Not Analyzed*
							MAV-PI-03	Crawlspace	*Not Analyzed*
P	Plaster Skim coat Plaster Basecoat	Throughout Walls and Ceilings		F	Sur	NA	MAV-P-01	305 Kitchen	ND ND
							MAV-P-02	305 Living Room	ND ND
							MAV-P-03	305 Closet	ND ND
							MAV-P-04	306 Closet	ND ND
							MAV-P-05	306 Closet	ND ND
							MAV-P-06	307 Closet	ND ND
							MAV-P-07	308 Closet	ND ND

Table I: Summary of Asbestos Results

HA	Material Description	Material Location	[2]Approx. Quantity	Cat. (F/I/II)	Type	Condition/ Potential for Disturbance	Sample Number	Sample Location	[1]Type and Percent Asbestos
SF1	Vinyl Sheet Flooring (white) Mastic (yellow)	305 - Office and Kitchen	270 SF	NF Cat I	Misc	NA	MAV-SF1-01	305 Kitchen	ND ND
							MAV-SF1-02	305 Kitchen	ND ND
							[3]MAV-SF1-03	305 Kitchen	ND ND
SF2	Vinyl Sheet Flooring (tan)	306 - Office, Kitchen, Laundry Room	360 SF	NF Cat I	Misc	NA	MAV-SF2-01	306 Laundry	ND
							MAV-SF2-02	306 Laundry	ND
							[3]MAV-SF2-03	306 Laundry	ND
SF3	Vinyl Sheet Flooring (grey) Mastic (yellow)	307 - Office, Kitchen, Laundry Room	360 SF	NF Cat I	Misc	NA	MAV-SF3-01	307 Office	ND ND
							MAV-SF3-02	307 Office	ND ND
							[3]MAV-SF3-03	307 Laundry	ND ND
SF4	Vinyl Sheet Flooring (off-white) Mastic (beige)	307 - 2nd Floor Bathroom	32 SF	NF Cat I	Misc	NA	MAV-SF4-01	307 Bathroom	ND ND
							MAV-SF4-02	307 Bathroom	ND ND
							[3]MAV-SF4-03	307 Bathroom	ND ND
SF5	Vinyl Sheet Flooring (brown)	308 - Office, Kitchen, Laundry Room	360 SF	NF Cat I	Misc	NA	MAV-SF5-01	308 Office	ND
							MAV-SF5-02	308 Office	ND
							[3]MAV-SF5-03	308 Laundry	ND
CB	Mastic (tan) associated with Rubber Cove Base	306, 307, and 308 - Laundry Rooms	75 LF	NF Cat I	Misc	NA	MAV-CB-01	306 Laundry	ND
							MAV-CB-02	306 Laundry	ND
							[3]MAV-CB-03	306 Laundry	ND

Table I: Summary of Asbestos Results

HA	Material Description	Material Location	[2]Approx. Quantity	Cat. (F/I/II)	Type	Condition/ Potential for Disturbance	Sample Number	Sample Location	[1]Type and Percent Asbestos
SM	Mastic (black) associated with Stainless Steel Sinks	305 and 306 Kitchen Stainless Steel Sinks	12 SF (2 sinks)	NF Cat I	Misc	NA	MAV-SM-01	305 Kitchen	ND
							MAV-SM-02	305 Kitchen	ND
							[3]MAV-SM-03	306 Kitchen	ND
SM2	Mastic (white) associated with Stainless Steel Sinks	307 and 308 Kitchen Stainless Steel Sinks	12 SF (2 sinks)	NF Cat I	Misc	G, PD	MAV-SM2-01	307 Kitchen	**Chrysotile 2**
							MAV-SM2-02	307 Kitchen	*Not Analyzed*
							MAV-SM2-03	307 Kitchen	*Not Analyzed*
FF	Floor Felt	308 Office - Underneath Plywood	130 SF	NF Cat I	Misc	NA	MAV-FF-01	308 Office	ND
							MAV-FF-02	308 Office	ND
							[3]MAV-FF-03	308 Office	ND
DM1	Mastic (white) associated with HVAC Ductwork	306 - Attic HVAC	150 SF	NF Cat I	Misc	NA	MAV-DM1-01	306 Attic	ND
							MAV-DM1-02	306 Attic	ND
							[3]MAV-DM1-03	306 Attic	ND

LF = linear feet
F= friable
NF = non-friable
Cat I = Category I
Cat II = Category II

Sur = Surfacing
TSI = Thermal System Insulation
G = good
D = damaged
SD = significantly damaged

Misc. = Miscellaneous
PD = potential for disturbance
PSD = potential for significant disturbance
ND = No Asbestos Detected
NA = Not Applicable

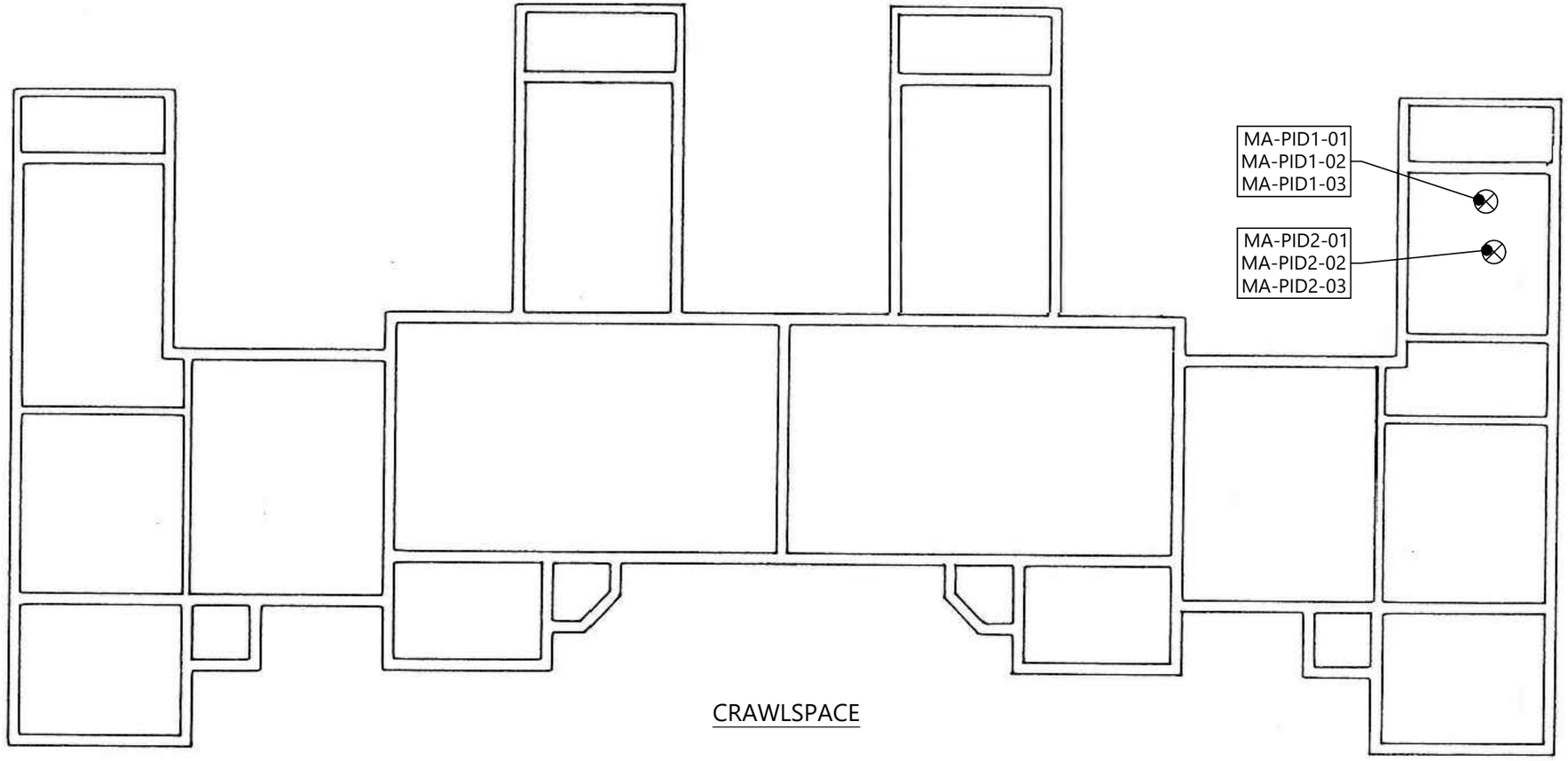
EA = each
Bold = >1% asbestos
O.D. = Outside Diameter

[1]EPA, SCDHEC and OSHA defines a material as asbestos containing if an asbestos content greater than one percent (>1%) is detected in a representative sample

[2]Quantities are estimated, and should not be used for bidding purposes, as field conditions should be verified

[3]Samples analyzed by TEM to confirm negative results reported by PLM analysis

Appendix II – Diagrams of Bulk Sample Locations and Identified Materials



LEGEND

MA-XX-XX BULK SAMPLE LOCATION

ASBESTOS CONTAINING MATERIALS

⊗ PIPE INSULATION DEBRIS
APPROXIMATELY 12 SQUARE FEET

NOTE: BASED ON THE ASSESSMENT AND ONSITE OBSERVATIONS, ASBESTOS CONTAINING PIPE INSULATION DEBRIS MAY BE PRESENT IN ADDITIONAL CRAWLSPACE AREAS. SOIL IN CONTACT WITH PIPE INSULATION DEBRIS SHOULD BE TREATED AS ACM.

ASBESTOS AND LEAD-BASED PAINT ASSESSMENT
CRAWLSPACE

301-304 MIMS AVENUE
THE CITADEL
CHARLESTON, SOUTH CAROLINA

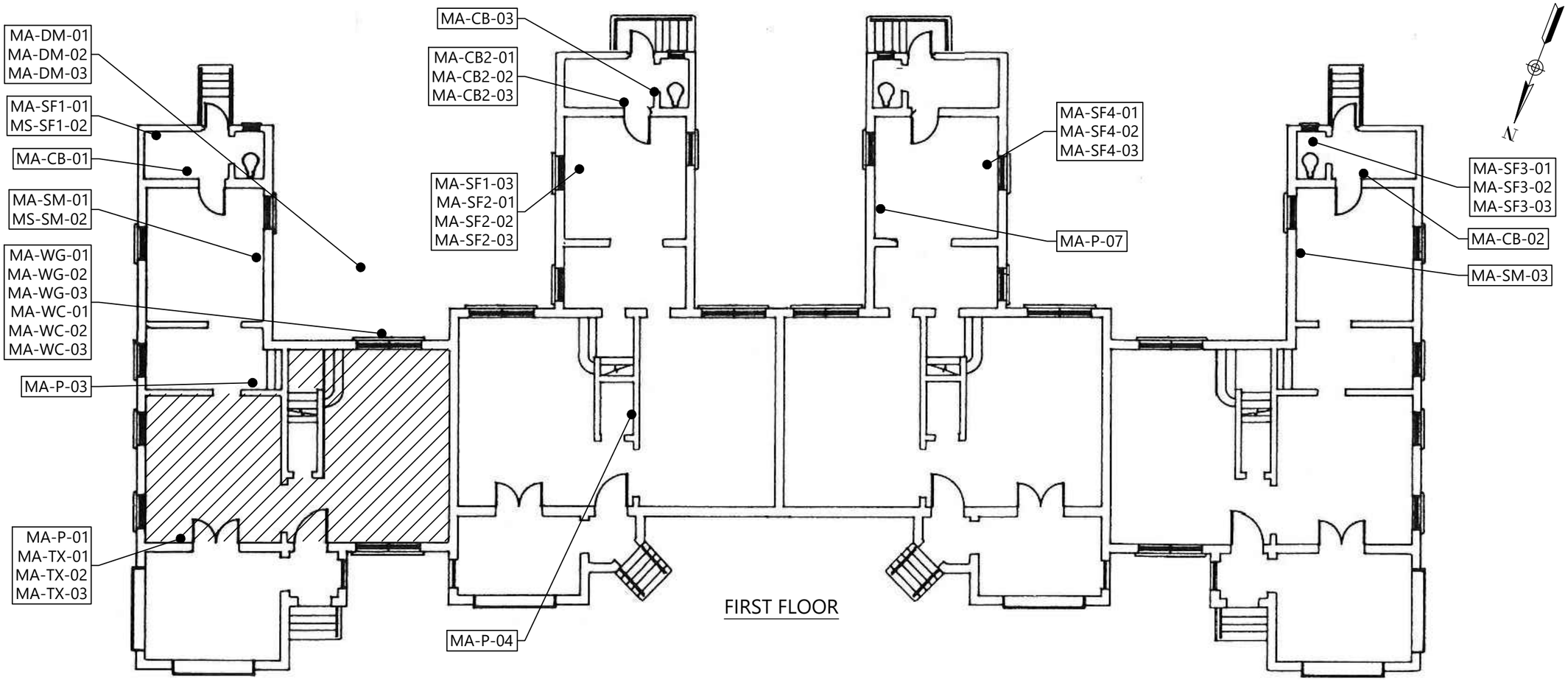
SCALE: NTS

DATE: 2-3-2023

PROJECT NUMBER 22130686

FIGURE NO. 1

T:\Charleston-1130\Projects\2022\22130686_The Citadel_301-308 Mims Ave_Asb LBP Assmt_Charleston SC\ENV\CAD\22130686.dwg



FIRST FLOOR

LEGEND

MA-XX-XX BULK SAMPLE LOCATION

ASBESTOS CONTAINING MATERIALS

SPRAY-APPLIED CEILING TEXTURE
APPROXIMATELY 620 SQUARE FEET

EXTERIOR WINDOW GLAZING ON ALL WINDOWS
APPROXIMATELY 1,650 LINEAR FEET

EXTERIOR WINDOW CAULKING ON ALL WINDOWS
APPROXIMATELY 480 LINEAR FEET

LEAD BASED PAINT (≥ 0.7 mg/cm^2)

- INTERIOR DOOR CASINGS (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR WINDOW CASINGS, SILLS, APRONS, AND SASHES (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR BASEBOARDS (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR CEILING TRIM (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR STAIR RISERS AND STRINGERS (WHITE PAINT ON WOOD) - INTACT CONDITION
- EXTERIOR TRIM (GREEN PAINT ON WOOD) - INTACT CONDITION

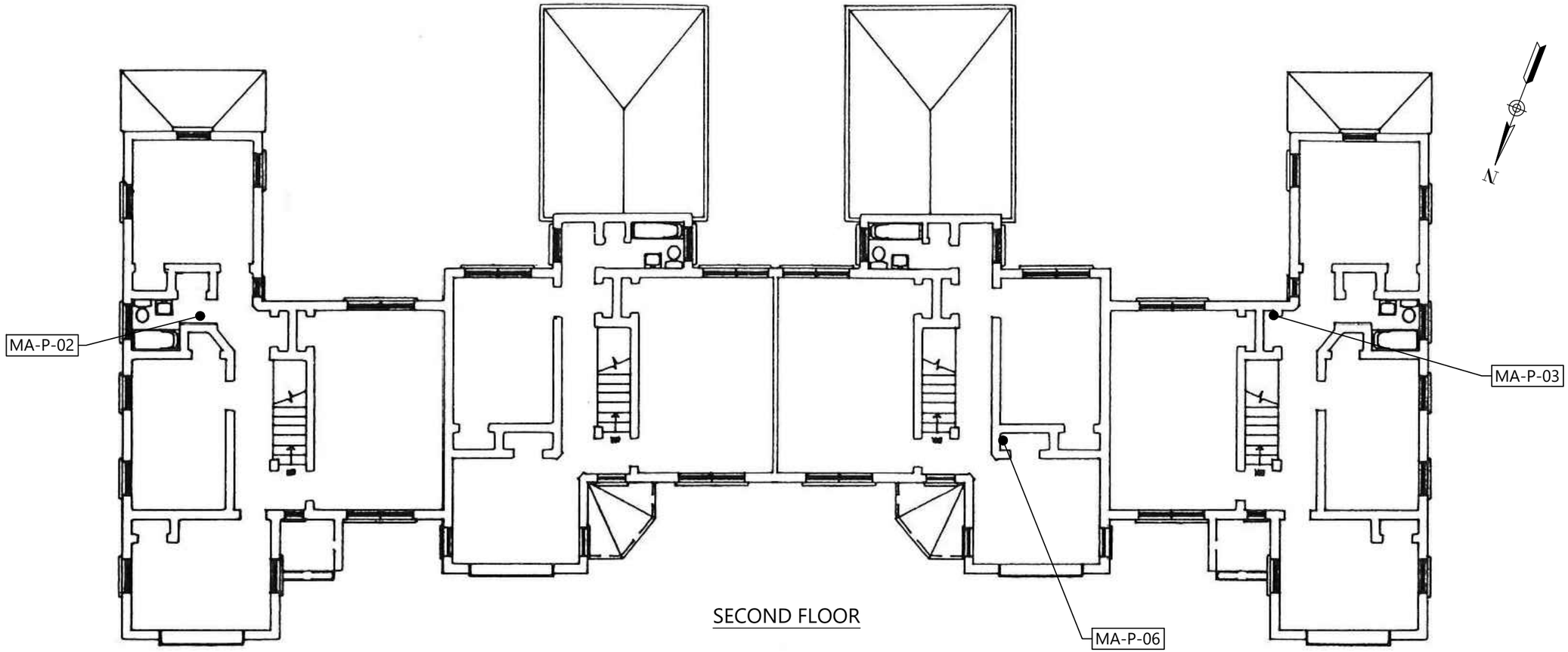
NOTE: ASBESTOS CONTAINING PIPE INSULATION SHOULD BE ASSUMED PRESENT IN WALL VOIDS.

ASBESTOS AND LEAD-BASED PAINT ASSESSMENT
FIRST FLOOR

301-304 MIMS AVENUE
THE CITADEL
CHARLESTON, SOUTH CAROLINA

SCALE: NTS
DATE: 2-3-2023
PROJECT NUMBER: 22130686
FIGURE NO.: 2

T:\Charleston-1130\Projects\2022\22130686_The Citadel_301-308 Mims Ave_Asb LBP Asmt_Charleston SC\ENV\CAD\22130686.dwg



LEGEND

MA-XX-XX BULK SAMPLE LOCATION

ASBESTOS CONTAINING MATERIALS

- EXTERIOR WINDOW GLAZING ON ALL WINDOWS APPROXIMATELY 2,450 LINEAR FEET
- EXTERIOR WINDOW CAULKING ON ALL WINDOWS APPROXIMATELY 720 LINEAR FEET

NOTE: ASBESTOS CONTAINING PIPE INSULATION SHOULD BE ASSUMED PRESENT IN WALL VOIDS.

LEAD BASED PAINT (≥ 0.7 mg/cm²)

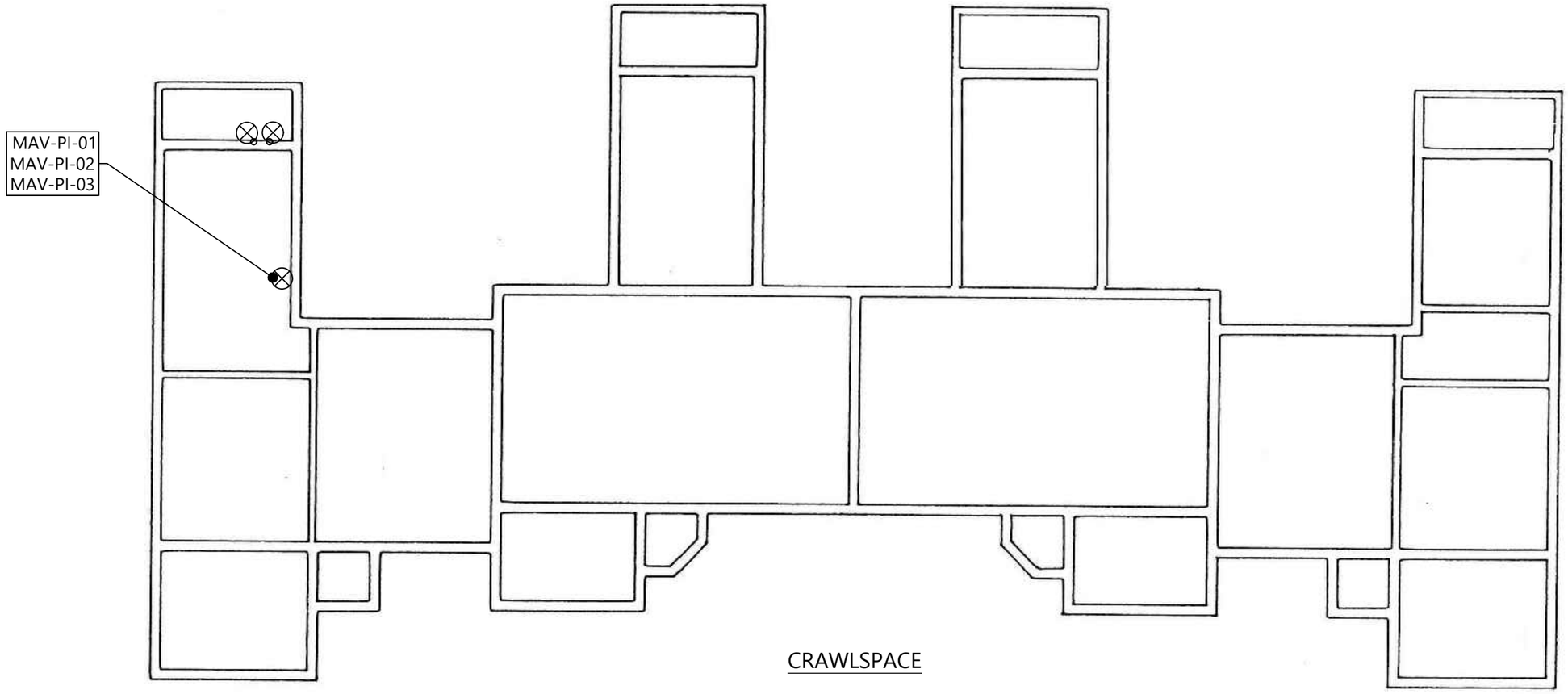
- INTERIOR DOOR CASINGS (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR WINDOW CASINGS, SILLS, APRONS, AND SASHES (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR BASEBOARDS (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR CEILING TRIM (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR STAIR RISERS AND STRINGERS (WHITE PAINT ON WOOD) - INTACT CONDITION
- BATHROOM CABINETRY (WHITE PAINT ON WOOD) - INTACT CONDITION
- GLAZING ON PORCELAIN BATHTUBS - INTACT CONDITION
- GLAZING ON CERAMIC WALL TILE IN BATHROOMS - INTACT CONDITION

ASBESTOS AND LEAD-BASED PAINT ASSESSMENT
SECOND FLOOR

301-304 MIMS AVENUE
THE CITADEL
CHARLESTON, SOUTH CAROLINA

SCALE:	NTS
DATE:	2-3-2023
PROJECT NUMBER	22130686
FIGURE NO.	3

T:\Charleston-1130\Projects\2022\22130686_The Citadel_301-308 Mims Ave_Asb LBP Assmt_Charleston SC\ENV\CAD\22130686.dwg



LEGEND

MAV-XX-XX BULK SAMPLE LOCATION

ASBESTOS CONTAINING MATERIALS

⊗ PIPE INSULATION AND ASSOCIATED DEBRIS
APPROXIMATELY 4 LINEAR FEET

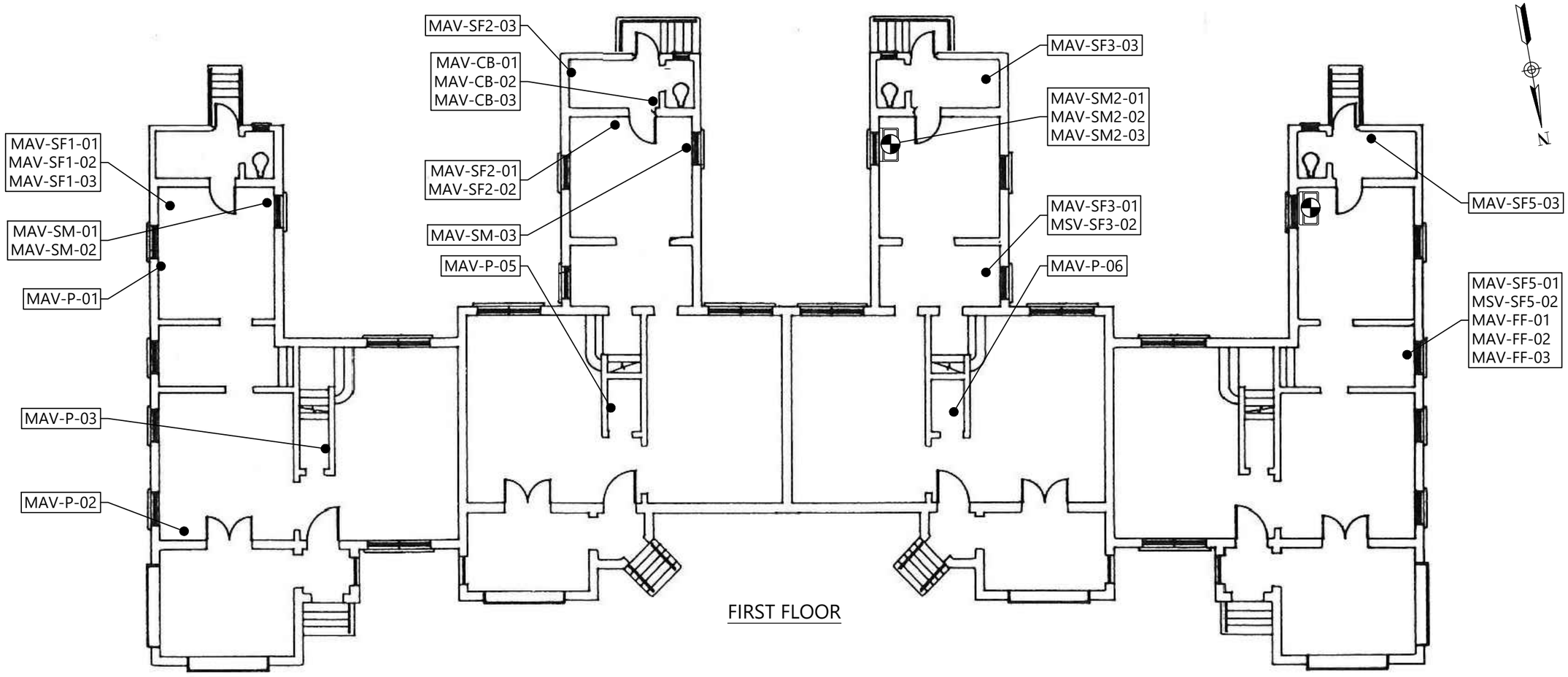
NOTE: BASED ON THE ASSESSMENT AND ONSITE OBSERVATIONS, ASBESTOS CONTAINING PIPE INSULATION DEBRIS MAY BE PRESENT IN ADDITIONAL CRAWLSPACE AREAS. SOIL IN CONTACT WITH PIPE INSULATION DEBRIS SHOULD BE TREATED AS ACM.

ASBESTOS AND LEAD-BASED PAINT ASSESSMENT
CRAWLSPACE

305-308 MIMS AVENUE
THE CITADEL
CHARLESTON, SOUTH CAROLINA

SCALE: NTS
DATE: 2-3-2023
PROJECT NUMBER 22130686
FIGURE NO. 4

T:\Charleston-1130\Projects\2022\22130686_The Citadel_301-308 Mims Ave_Asb LBP Assmt_Charleston SC\ENV\CAD\22130686.dwg



FIRST FLOOR

LEGEND

MAV-XX-XX BULK SAMPLE LOCATION

ASBESTOS CONTAINING MATERIALS

MASTIC (WHITE) ASSOCIATED WITH STAINLESS STEEL SINKS APPROXIMATELY 12 SQUARE FEET

NOTE: ASBESTOS CONTAINING PIPE INSULATION SHOULD BE ASSUMED PRESENT IN WALL VOIDS.

LEAD BASED PAINT (≥ 0.7 mg/cm^2)

- INTERIOR DOOR CASINGS (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR WINDOW CASINGS, SILLS, APRONS, AND SASHES (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR BASEBOARDS (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR CEILING TRIM (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR STAIR RISERS AND STRINGERS (WHITE PAINT ON WOOD) - INTACT CONDITION
- EXTERIOR DOORS AND DOOR CASINGS (GREEN PAINT ON WOOD) - INTACT CONDITION
- EXTERIOR CEILING AND TRIM (GREEN PAINT ON WOOD) - INTACT CONDITION
- EXTERIOR HANDRAIL (GREEN PAINT ON METAL) - INTACT CONDITION

ASBESTOS AND LEAD-BASED PAINT ASSESSMENT
FIRST FLOOR

301-304 MIMS AVENUE
THE CITADEL
CHARLESTON, SOUTH CAROLINA

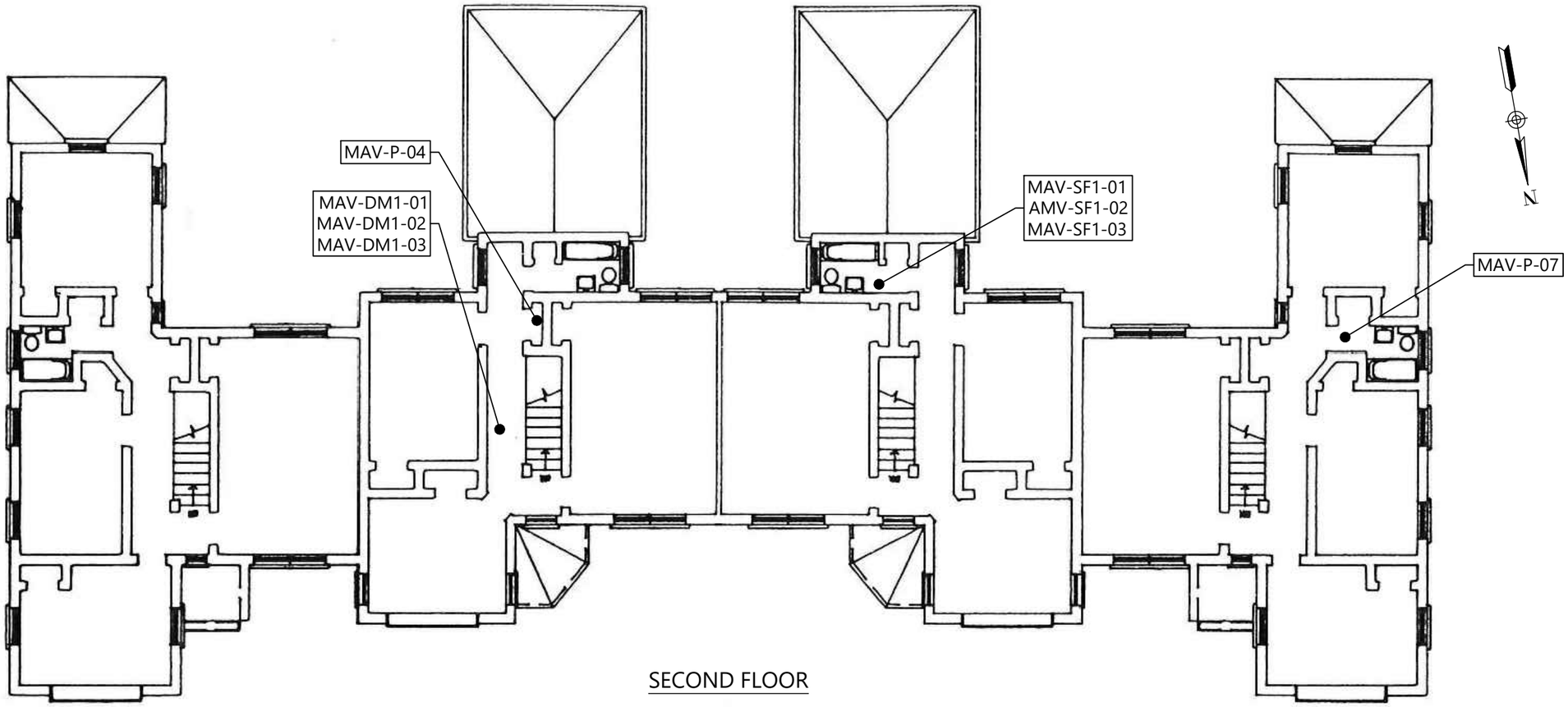
SCALE: NTS

DATE: 2-3-2023

PROJECT NUMBER 22130686

FIGURE NO. 5

T:\Charleston-1130\Projects\2022\22130686_The Citadel_301-308 Mims Ave_Asb LBP Assmt_Charleston SC\ENV\CAD\22130686.dwg



SECOND FLOOR

LEGEND

MAV-XX-XX BULK SAMPLE LOCATION

NOTE: ASBESTOS CONTAINING PIPE INSULATION SHOULD BE ASSUMED PRESENT IN WALL VOIDS.

LEAD BASED PAINT (≥ 0.7 mg/cm^2)

- INTERIOR DOOR CASINGS (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR WINDOW CASINGS, SILLS, APRONS, AND SASHES (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR BASEBOARDS (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR STAIR RISERS AND STRINGERS (WHITE PAINT ON WOOD) - INTACT CONDITION
- GLAZING ON CERAMIC WALL TILE IN BATHROOMS - INTACT CONDITION
- GLAZING ON PORCELAIN BATHTUBS - INTACT CONDITION
- BATHROOM CABINETRY (WHITE PAINT ON WOOD) - INTACT CONDITION
- INTERIOR CEILING TRIM (WHITE PAINT ON WOOD) - INTACT CONDITION

ASBESTOS AND LEAD-BASED PAINT ASSESSMENT
SECOND FLOOR

305-308 MIMS AVENUE
THE CITADEL
CHARLESTON, SOUTH CAROLINA

SCALE:	NTS
DATE:	2-3-2023
PROJECT NUMBER	22130686
FIGURE NO.	6

T:\Charleston-1130\Projects\2022\22130686_The Citadel_301-308 Mims Ave_Asb LBP Assmt_Charleston SC\ENV\CAD\22130686.dwg

Appendix III - Copy of Inspectors' SCDHEC Licenses

South Carolina
Department of Health and Environmental Control

Asbestos License

James McMillan

Air Sampler AS-00539
Building Inspector BI-01643
Project Designer PD-000235

South Carolina
Department of Health and Environmental Control

Asbestos License

Josh Veloso

Air Sampler AS-000640
Building Inspector BI-001989

Appendix IV – Laboratory Analysis Sheets and Chain of Custody Records

9751 Southern Pine Boulevard
Charlotte, NC 28273
704-940-1830 Fax 704-565-4929
NVLAP Lab Code 102075-0

POLARIZED LIGHT MICROSCOPY
Performed by EPA 600/R-93/116 Method

Asbestos Analysis Summary

Client Name Charleston Office
Client Job The Citadel 301-304 Mims Ave

620 Wando Park Blvd.
Mt. Pleasant SC 29464

Date Received 1/19/2023
Date Analyzed 1/23/2023

Job Number 22130686

Lab ID:	Sample #:	Appearance	Comments	Asbestos %/Type	Non-Asbestos Fibrous %/Type	Non-Fibrous %/Type
23-541	MA-TX-01	BEIGE NONFIBROUS		<1 CHRYSOTILE		1 PERLITE 99 OTHER
23-542	MA-TX-02	BEIGE NONFIBROUS		2 CHRYSOTILE		2 PERLITE 96 OTHER
23-543	MA-TX-03	BEIGE NONFIBROUS		2 CHRYSOTILE		2 PERLITE 96 OTHER
23-544A	MA-P-01	BEIGE NONFIBROUS	TEXTURE	ND		100 OTHER

Analyzed by: Jane Wasilewski
Additional Comments: Issued 1/23/23

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.
The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

Job Number 22130686

Lab ID:	*Sample #:*	*Appearance*	*Comments*	*Asbestos %/Type*	*Non-Asbestos Fibrous %/Type*	*Non-Fibrous %/Type*
23-544B	MA-P-01	BEIGE NONFIBROUS	PLASTER	ND	<1 CELLULOSE	100 OTHER
23-545A	MA-P-02	WHITE NONFIBROUS	SKIM COAT	ND		100 OTHER
23-545B	MA-P-02	BEIGE NONFIBROUS	PLASTER	ND	<1 CELLULOSE	100 OTHER
23-546A	MA-P-03	WHITE NONFIBROUS	SKIM COAT	ND		100 OTHER
23-546B	MA-P-03	BEIGE NONFIBROUS	PLASTER	ND		100 OTHER
23-547A	MA-P-04	BEIGE NONFIBROUS	SKIM COAT	ND		100 OTHER

Analyzed by: Jane Wasilewski

Additional Comments: Issued 1/23/23

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.
The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

Job Number 22130686

Lab ID:	*Sample #:*	*Appearance*	*Comments*	*Asbestos %/Type*	*Non-Asbestos Fibrous %/Type*	*Non-Fibrous %/Type*
23-547B	MA-P-04	GREY GRANULAR	PLASTER	ND		100 OTHER
23-548A	MA-P-05	BEIGE NONFIBROUS	SKIM COAT	ND		100 OTHER
23-548B	MA-P-05	GREY GRANULAR	PLASTER	ND		100 OTHER
23-549A	MA-P-06	BEIGE NONFIBROUS	SKIM COAT	ND		100 OTHER
23-549B	MA-P-06	GREY GRANULAR	PLASTER	ND		100 OTHER
23-550A	MA-P-07	WHITE NONFIBROUS	TEXTURE	ND		100 OTHER

Analyzed by: Jane Wasilewski

Additional Comments: Issued 1/23/23

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.
The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

Job Number 22130686

Lab ID:	*Sample #:*	*Appearance*	*Comments*	*Asbestos %/Type*	*Non-Asbestos Fibrous %/Type*	*Non-Fibrous %/Type*
23-550B	MA-P-07	GREY NONFIBROUS	PLASTER	ND		2 PERLITE 98 OTHER
23-551	MA-CB-01	YELLOW NONFIBROUS		ND		100 OTHER
23-552	MA-CB-02	YELLOW NONFIBROUS		ND		100 OTHER
23-554	MA-CB2-01	YW/BLACK NONFIBROUS		ND		100 OTHER
23-555	MA-CB2-02	YW/BLACK NONFIBROUS		ND		100 OTHER
23-557	MA-SF1-01	BEIGE FIBROUS		ND	15 CELLULOSE 2 GLASS	83 OTHER

Analyzed by: Jane Wasilewski

Additional Comments: Issued 1/23/23

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.
The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

Job Number 22130686

Lab ID:	*Sample #:*	*Appearance*	*Comments*	*Asbestos %/Type*	*Non-Asbestos Fibrous %/Type*	*Non-Fibrous %/Type*
23-558	MA-SF1-02	BEIGE FIBROUS		ND	15 CELLULOSE 2 GLASS	83 OTHER
23-560	MA-SF2-01	TAN FIBROUS		ND	10 CELLULOSE 2 GLASS	88 OTHER
23-561	MA-SF2-02	TAN FIBROUS		ND	10 CELLULOSE 2 GLASS	88 OTHER
23-563	MA-SF3-01	BEIGE FIBROUS		ND	10 CELLULOSE 2 GLASS	88 OTHER
23-564	MA-SF3-02	BEIGE FIBROUS		ND	10 CELLULOSE 2 GLASS	88 OTHER
23-566	MA-SF4-01	GREY FIBROUS		ND	10 CELLULOSE 2 GLASS	88 OTHER

Analyzed by: Jane Wasilewski

Additional Comments: Issued 1/23/23

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.
The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

Job Number 22130686

Lab ID:	*Sample #:*	*Appearance*	*Comments*	*Asbestos %/Type*	*Non-Asbestos Fibrous %/Type*	*Non-Fibrous %/Type*
23-567	MA-SF4-02	GREY FIBROUS		ND	10 CELLULOSE 2 GLASS	88 OTHER
23-569	MA-SM-01	BEIGE FIBROUS		ND	8 CELLULOSE	92 OTHER
23-570	MA-SM-02	BEIGE FIBROUS		ND	8 CELLULOSE	92 OTHER
23-572	MA-DM-01	GREY PLIABLE		ND	2 CELLULOSE	98 OTHER
23-573	MA-DM-02	BEIGE PLIABLE		ND	2 SYNTHETIC	98 OTHER
23-575	MA-WC-01	BEIGE PLIABLE		ND		100 OTHER

Analyzed by: Jane Wasilewski

Additional Comments: Issued 1/23/23

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.
The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

Job Number 22130686

Lab ID:	*Sample #:*	*Appearance*	*Comments*	*Asbestos %/Type*	*Non-Asbestos Fibrous %/Type*	*Non-Fibrous %/Type*
23-576	MA-WC-02	BEIGE PLIABLE		ND		100 OTHER
23-578	MA-WG-01	BEIGE NONFIBROUS		2 CHRYSOTILE		98 OTHER
23-581	MA-PID1-01	BEIGE FIBROUS		15 AMOSITE 2 CHRYSOTILE		83 OTHER
23-584	MA-PID2-01	GREY FIBROUS		70 CHRYSOTILE		30 OTHER

Analyzed by: Jane Wasilewski

Additional Comments: Issued 1/23/23

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.
The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

BULK SAMPLE
CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
22130686	The Citadel – Mims Avenue Housing		1-18-23	1800	9:50A 1/19/23
FACILITY 301-304 Mims Avenue		RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
SAMPLER(S) Josh Veloso, James McMillan	**DATE TAKEN** 1/17/2023	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

SAMPLE #	HOMOGENEOUS AREA	MATERIAL TYPE	LAB NUMBER	DATE ANALYZED	ANALYSTS INITIALS	ASBESTOS +	ASBESTOS I	ASBESTOS N/D	ARCHIVE NUMBER	DATE ARCH	ARCHIVERS INITIALS	SPECIAL INSTRUCTIONS
MA-TX-01	TX	Ceiling texture	23-541									PLM
-02	|	|	42									|
-03			43									
MA-P-01	P	Skimcoat and basecoat	44									
-02			45									
-03			46									
-04			47									
-05			48									
-06			49									
-07			50									
MA-CB-01	CB	mastic only	51									POS. STOP
-02	|	|	52									|
-03			553									TEM
			—									
			—									

ALL SAMPLES WILL BE DISPOSED OF NINETY DAYS AFTER ANALYSIS UNLESS OTHERWISE REQUESTED

MATERIAL TYPES

A - <4" Pipe Fitting	G - 9-14" Pipe	M - A.H.U. Exp. Jt.
B - 4-8" Pipe Fitting	H - >14" Pipe	N - Ceiling/Wall Tile
C - 9-14" Pipe Fitting	I - Spray-On/Trowel	O - Fiberboard
D - >14" Pipe Fitting	J - Floor Tile	P - Other (See notes-Front or back)
E - <4" Pipe	K - Tanks/Boiler	
F - 4-8" Pipe	L - A>H>U> Insul.	

PLM TAT - 5 (Days) Hours Same Day
TEM TAT - 3 (Days) Hours Same Day
Do not run TEM if both PLMs are positive

S&ME SFI-002 (REV. 5/93) This document was prepared pursuant to a specific agreement to address the unique requirements of an S&ME client. Prior to further use, an S&ME professional should be contacted for a complete explanation of its preparation and contents.

BULK SAMPLE
CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
22130686	The Citadel – Mims Avenue Housing		1-18-23	1800	1/19/23
FACILITY 301-304 Mims Avenue		RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
SAMPLER(S) Josh Veloso, James McMillan	**DATE TAKEN** 1/17/2023	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

SAMPLE #	HOMOGENEOUS AREA	MATERIAL TYPE	LAB NUMBER	DATE ANALYZED	ANALYSTS INITIALS	ASBESTOS +	ASBESTOS I	ASBESTOS N/D	ARCHIVE NUMBER	DATE ARCH	ARCHIVERS INITIALS	SPECIAL INSTRUCTIONS
MA-CB2-01	CB2	mastic only	23-554									PLM pos. STOP
-02	|	|	55									PLM
-03	|	|	56									TEM
MA-SF1-01	SF1	Sheet flooring only	57									PLM
-02	|	|	58									PLM
-03	|	|	59									TEM
MA-SF2-01	SF2	|	60									PLM
-02	|	|	61									PLM
-03	|	|	62									TEM
MA-SF3-01	SF3	|	63									PLM
-02	|	|	64									PLM
-03	|	|	65									TEM
MA-SF4-01	SF4	|	66									PLM
-02	|	|	67									PLM
-03	|	|	568									TEM

ALL SAMPLES WILL BE DISPOSED OF NINETY DAYS AFTER ANALYSIS UNLESS OTHERWISE REQUESTED

MATERIAL TYPES

A - <4" Pipe Fitting	G – 9-14" Pipe	M – A.H.U. Exp. Jt.
B – 4-8" Pipe Fitting	H – >14" Pipe	N – Ceiling/Wall Tile
C – 9-14" Pipe Fitting	I – Spray-On/Trowel	O – Fiberboard
D – >14" Pipe Fitting	J – Floor Tile	P – Other (See notes-Front or back)
E – <4" Pipe	K– Tanks/Boiler	
F – 4-8" Pipe	L – A>H>U> Insul.	

PLM TAT - 5 (Days) Hours Same Day
TEM TAT - 3 (Days) Hours Same Day
Do not run TEM if both PLMs are positive

S&ME SFI-002 (REV. 5/93) This document was prepared pursuant to a specific agreement to address the unique requirements of an S&ME client. Prior to further use, an S&ME professional should be contacted for a complete explanation of its preparation and contents.

BULK SAMPLE
CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
22130686	The Citadel – Mims Avenue Housing		1-18-23	1800	1/19/23
FACILITY 301-304 Mims Avenue		RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
SAMPLER(S) Josh Veloso, James McMillan	**DATE TAKEN** 1/17/2023	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

SAMPLE #	HOMOGENEOUS AREA	MATERIAL TYPE	LAB NUMBER	DATE ANALYZED	ANALYSTS INITIALS	ASBESTOS +	ASBESTOS I	ASBESTOS N/D	ARCHIVE NUMBER	DATE ARCH	ARCHIVERS INITIALS	SPECIAL INSTRUCTIONS
MA-SM-01	SM	mastic only	23-569									PLM POS. STOP
-02	"	"	70									PLM
-03	"	"	71									TEM
MA-DM-01	DM	"	72									PLM
-02	"	"	73									PLM
-03	"	"	74									TEM
MA-WC-01	WC	window caulking	75									PLM
-02	"	"	76									PLM
-03	"	"	77									TEM
MA-WG-01	WG	window glazing	78									PLM
-02	"	"	79									PLM
-03	"	"	80									TEM
MA-PID1-01	PID1	pipe insulation	81									PLM
-02	"	"	82									"
-03	"	"	583									"

ALL SAMPLES WILL BE DISPOSED OF NINETY DAYS AFTER ANALYSIS UNLESS OTHERWISE REQUESTED

MATERIAL TYPES

A - <4" Pipe Fitting	G - 9-14" Pipe	M - A.H.U. Exp. Jt.
B - 4-8" Pipe Fitting	H - >14" Pipe	N - Ceiling/Wall Tile
C - 9-14" Pipe Fitting	I - Spray-On/Trowel	O - Fiberboard
D - >14" Pipe Fitting	J - Floor Tile	P - Other (See notes-Front or back)
E - <4" Pipe	K- Tanks/Boiler	
F - 4-8" Pipe	L - A>H>U> Insul.	

PLM TAT - 5 Days Hours Same Day
TEM TAT - 3 Days Hours Same Day
Do not run TEM if both PLMs are positive

S&ME SFI-002 (REV. 5/93) This document was prepared pursuant to a specific agreement to address the unique requirements of an S&ME client. Prior to further use, an S&ME professional should be contacted for a complete explanation of its preparation and contents.

BULK SAMPLE
CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
22130686	The Citadel – Mims Avenue Housing		01-18-23	1800	1/19/23
FACILITY 301-304 Mims Avenue		RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
SAMPLER(S) Josh Veloso, James McMillan	**DATE TAKEN** 01/17/2023	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

SAMPLE #	HOMOGENEOUS AREA	MATERIAL TYPE	LAB NUMBER	DATE ANALYZED	ANALYSTS INITIALS	ASBESTOS +	ASBESTOS I N/D	ARCHIVE NUMBER	DATE ARCH	ARCHIVERS INITIALS	SPECIAL INSTRUCTIONS
MA-PID2-01	PID2	Pipe insulation	23-584								PLM Pos. Stop
-02	1	1	85								1 1
-03			586								

ALL SAMPLES WILL BE DISPOSED OF NINETY DAYS AFTER ANALYSIS UNLESS OTHERWISE REQUESTED

MATERIAL TYPES

A - <4" Pipe Fitting	G - 9-14" Pipe	M - A.H.U. Exp. Jt.
B - 4-8" Pipe Fitting	H - >14" Pipe	N - Ceiling/Wall Tile
C - 9-14" Pipe Fitting	I - Spray-On/Trowel	O - Fiberboard
D - >14" Pipe Fitting	J - Floor Tile	P - Other (See notes-Front or back)
E - <4" Pipe	K- Tanks/Boiler	
F - 4-8" Pipe	L - A>H>U> Insul.	

PLM TAT - 5 (Days) Hours Same Day
TEM TAT - 3 (Days) Hours Same Day
Do not run TEM if both PLMs are positive

S&ME SFI-002 (REV. 5/93) This document was prepared pursuant to a specific agreement to address the unique requirements of an S&ME client. Prior to further use, an S&ME professional should be contacted for a complete explanation of its preparation and contents.

EMSL Analytical, Inc.
10801 Southern Loop Blvd Pineville, NC 28134
Tel/Fax: (704) 525-2205 / (704) 525-2382
http://www.EMSL.com / charlottelab@emsl.com

EMSL Order: 412300915
Customer ID: SMEI54
Customer PO: 22130686
Project ID:

Attention: Jane Wasilewski
S&ME, Inc.
9771D Southern Pine Blvd.
Charlotte, NC 28273

Project: 22130686 (301-304 Mims)

Phone: (704) 940-1830
Fax: (704) 565-4929
Received Date: 01/24/2023 12:45 PM
Analysis Date: 01/26/2023
Collected Date:

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
MA-CB-03 *412300915-0001*	Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MA-CB2-03 *412300915-0002*	Mastic	Tan/Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MA-SF1-03 *412300915-0003*	Sheet Floor Only	Beige Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MA-SF2-03 *412300915-0004*	Sheet Floor Only	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MA-SF3-03 *412300915-0005*	Sheet Floor Only	Gray/White Non-Fibrous Heterogeneous	98.9 Other	1.1 Fibrous_Other	No Asbestos Detected
MA-SF4-03 *412300915-0006*	Sheet Floor Only	White/Beige Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MA-SM-03 *412300915-0007*	Mastic	White Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MA-DM-03 *412300915-0008*	Mastic Only	Gray Non-Fibrous Heterogeneous	97.0 Other	3.0 Fibrous_Other	No Asbestos Detected
MA-WC-03 *412300915-0009*	Caulk	Gray/White Non-Fibrous Heterogeneous	86.8 Other	6.6 Fibrous_Other	6.6% Chrysotile

Analyst(s)

Aaron Hartley (9)

Lee Plumley, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 01/26/2023 15:04:23

OrderID: 412300915

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 412300915

EMSL ANALYTICAL, INC.
10801 SOUTHERN LOOP BLVD
PINEVILLE, NC 28134
PHONE: 704-525-2205
FAX: 704-525-2382

Company : S&ME Inc.	**EMSL-Bill to:** ☒ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 9751 Southern Pine Blvd.	*Third Party Billing requires written authorization from third party*
City: Charlotte **State/Province: NC**	**Zip/Postal Code: 28273** **Country:**
Report To (Name): Jane Wasilewski	**Telephone #: 704-940-1830**
Email Address: jwasilewski@smeinc.com	**Fax #:** **Purchase Order:**
Project Name/Number:	**Please Provide Results:** ☐ Fax ☒ Email
U.S. State Samples Taken:	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☑ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☒ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ TEM Qual. via Filtration Technique
- ☐ TEM Qual. via Drop-Mount Technique

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** | **Filter Pore Size (Air Samples):** ☐ 0.8µm ☐ 0.45µm

Samplers Name: | **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
MA-CB-03	Mastic		
MA-CB2-03	Mastic		
MA-SF1-03	sheet Floor only		
MA-SF2-03	sheet Floor only		
MA-SF3-03	Sheet Floor only		
MA-SF4-03	sheet Floor only		
MA-SM-03	Mastic		
MA-DM-03	Mastic only		

Client Sample # (s): - **Total # of Samples:** 9

Relinquished (Client): [signature] **Date:** 1/24/23 **Time:**

Received (Lab): [signature] **Date:** 1/24/23 **Time:** 1245pm U/N

Comments/Special Instructions:
******EMAIL INVOICE TO: smeinc_invoice@concursolutions.com with this contact printed on the invoice:** Terry Rehburg

22-30686 (~~BMM~~-301-304 -Mims)

OrderID: 412300915

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

915

EMSL ANALYTICAL, INC
10801 SOUTHERN LOOP BLVD
PINEVILLE NC, 28134
PHONE: 704-525-2205
FAX: 704-525-2382

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
MA-WC-03	Caulk		

***Comments/Special Instructions:**

9751 Southern Pine Boulevard
Charlotte, NC 28273
704-940-1830 Fax 704-565-4929
NVLAP Lab Code 102075-0

POLARIZED LIGHT MICROSCOPY
Performed by EPA 600/R-93/116 Method

Asbestos Analysis Summary

Client Name Charleston Office
Client Job The Citadel 305-308 Mims Ave

620 Wando Park Blvd.
Mt. Pleasant SC 29464

Date Received 1/19/2023
Date Analyzed 1/23/2023

Job Number 22130686

Lab ID:	Sample #:	Appearance	Comments	Asbestos %/Type	Non-Asbestos Fibrous %/Type	Non-Fibrous %/Type
23-587A	MAV-P-01	BEIGE NONFIBROUS	TEXTURE	ND		100 OTHER
23-587B	MAV-P-01	BEIGE NONFIBROUS	SKIM COAT	ND		100 OTHER
23-587C	MAV-P-01	GREY GRANULAR	PLASTER	ND		100 OTHER
23-588A	MAV-P-02	BEIGE NONFIBROUS	SKIM COAT	ND		100 OTHER

Analyzed by: Jane Wasilewski

Additional Comments: Issued 1/23/23

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.
The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

Job Number 22130686

Lab ID:	*Sample #:*	*Appearance*	*Comments*	*Asbestos %/Type*	*Non-Asbestos Fibrous %/Type*	*Non-Fibrous %/Type*
23-588B	MAV-P-02	GREY GRANULAR	PLASTER	ND	<1 CELLULOSE	100 OTHER
23-589A	MAV-P-03	BEIGE NONFIBROUS	SKIM COAT	ND		100 OTHER
23-589B	MAV-P-03	GREY GRANULAR	PLASTER	ND	<1 CELLULOSE	100 OTHER
23-590A	MAV-P-04	BEIGE NONFIBROUS	SKIM COAT	ND		100 OTHER
23-590B	MAV-P-04	GREY GRANULAR	PLASTER	ND	<1 CELLULOSE	100 OTHER
23-591A	MAV-P-05	BEIGE NONFIBROUS	TEXTURE	ND		100 OTHER

Analyzed by: Jane Wasilewski

Additional Comments: Issued 1/23/23

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.
The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

Job Number 22130686

Lab ID:	*Sample #:*	*Appearance*	*Comments*	*Asbestos %/Type*	*Non-Asbestos Fibrous %/Type*	*Non-Fibrous %/Type*
23-591B	MAV-P-05	BEIGE NONFIBROUS	SKIM COAT	ND		100 OTHER
23-592A	MAV-P-06	BEIGE NONFIBROUS	SKIM COAT	ND		100 OTHER
23-592B	MAV-P-06	GREY GRANULAR	PLASTER	ND		100 OTHER
23-593A	MAV-P-07	BEIGE NONFIBROUS	SKIM COAT	ND		100 OTHER
23-593B	MAV-P-07	GREY GRANULAR	PLASTER	ND	<1 CELLULOSE	100 OTHER
23-594A	MAV-SF1-01	BEIGE FIBROUS	SHEET FLOOR	ND	15 CELLULOSE 2 GLASS	83 OTHER

Analyzed by: Jane Wasilewski

Additional Comments: Issued 1/23/23

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.
The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

Job Number 22130686

Lab ID:	*Sample #:*	*Appearance*	*Comments*	*Asbestos %/Type*	*Non-Asbestos Fibrous %/Type*	*Non-Fibrous %/Type*
23-594B	MAV-SF1-01	YELLOW NONFIBROUIS	MASTIC	ND		100 OTHER
23-595A	MAV-SF1-02	BEIGE FIBROUS	SHEET FLOOR	ND	15 CELLULOSE 2 GLASS	83 OTHER
23-595B	MAV-SF1-02	YELLOW NONFIBROUIS	MASTIC	ND		100 OTHER
23-597	MAV-SF2-01	TAN FIBROUS		ND	10 CELLULOSE 2 GLASS	88 OTHER
23-598	MAV-SF2-02	TAN FIBROUS		ND	10 CELLULOSE 2 GLASS	88 OTHER
23-600A	MAV-SF3-01	GREY FIBROUS	SHEET FLOOR	ND	10 CELLULOSE 2 GLASS	88 OTHER

Analyzed by: Jane Wasilewski

Additional Comments: Issued 1/23/23

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.
The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

Job Number 22130686

Lab ID:	*Sample #:*	*Appearance*	*Comments*	*Asbestos %/Type*	*Non-Asbestos Fibrous %/Type*	*Non-Fibrous %/Type*
23-600B	MAV-SF3-01	YELLOW NONFIBROUS	MASTIC	ND		100 OTHER
23-601A	MAV-SF3-02	GREY FIBROUS	SHEET FLOOR	ND	10 CELLULOSE 2 GLASS	88 OTHER
23-601B	MAV-SF3-02	YELLOW NONFIBROUS	MASTIC	ND		100 OTHER
23-603A	MAV-SF4-01	BEIGE FIBROUS	SHEET FLOOR	ND	10 CELLULOSE 2 GLASS	88 OTHER
23-603B	MAV-SF4-01	YELLOW NONFIBROUS	MASTIC	ND		100 OTHER
23-604A	MAV-SF4-02	BEIGE FIBROUS	SHEET FLOOR	ND	10 CELLULOSE 2 GLASS	88 OTHER

Analyzed by: Jane Wasilewski

Additional Comments: Issued 1/23/23

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.
The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

Job Number 22130686

Lab ID:	*Sample #:*	*Appearance*	*Comments*	*Asbestos %/Type*	*Non-Asbestos Fibrous %/Type*	*Non-Fibrous %/Type*
23-604B	MAV-SF4-02	YELLOW NONFIBROUS	MASTIC	ND		100 OTHER
23-606	MAV-SF5-01	TAN FIBROUS		ND	2 GLASS	98 OTHER
23-607	MAV-SF5-02	TAN FIBROUS		ND	2 GLASS	98 OTHER
23-609	MAV-FF-01	BLACK FIBROUS		ND	80 CELLULOSE	20 OTHER
23-610	MAV-FF-02	BLACK FIBROUS		ND	80 CELLULOSE	20 OTHER
23-612	MAV-CB-01	YELLOW NONFIBROUS		ND		100 OTHER

Analyzed by: Jane Wasilewski

Additional Comments: Issued 1/23/23

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.
The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

Job Number 22130686

Lab ID:	*Sample #:*	*Appearance*	*Comments*	*Asbestos %/Type*	*Non-Asbestos Fibrous %/Type*	*Non-Fibrous %/Type*
23-613	MAV-CB-02	YELLOW NONFIBROUS		ND		100 OTHER
23-615	MAV-SM-01	BLACK NONFIBROUS		ND		100 OTHER
23-616	MAV-SM-02	BLACK NONFIBROUS		ND	<1 CELLULOSE	100 OTHER
23-618	MAV-SM2-01	PURPLE NONFIBROUS		2 CHRYSOTILE		98 OTHER
23-621	MAV-DM1-01	GREY PLIABLE		ND	2 CELLULOSE	98 OTHER
23-622	MAV-DM1-02	GREY PLIABLE		ND	2 CELLULOSE	98 OTHER

Analyzed by: Jane Wasilewski

Additional Comments: Issued 1/23/23

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.
The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

Job Number 22130686

Lab ID:	*Sample #:*	*Appearance*	*Comments*	*Asbestos %/Type*	*Non-Asbestos Fibrous %/Type*	*Non-Fibrous %/Type*
23-624	MAV-PI-01	BEIGE FIBROUS		55 CHRYSOTILE	2 CELLULOSE	43 OTHER

Analyzed by: Jane Wasilewski

Additional Comments: Issued 1/23/23

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.
The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

BULK SAMPLE
CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
22130686	The Citadel – Mims Avenue Housing		1-18-23	1800	9:50 AM 1/19/23
FACILITY		RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
305-308 Mims Avenue					
SAMPLER(S)	**DATE TAKEN**	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Josh Veloso, James McMillan	1/17/2023				

SAMPLE #	HOMOGENEOUS AREA	MATERIAL TYPE	LAB NUMBER	DATE ANALYZED	ANALYSTS INITIALS	ASBESTOS +	ASBESTOS I	ASBESTOS N/D	ARCHIVE NUMBER	DATE ARCH	ARCHIVERS INITIALS	SPECIAL INSTRUCTIONS
MAV-P-01	P	Skimcoat + basecoat	23-587									PLM
-02			88									
-03			89									
-04			90									
-05			91									
-06			92									
-07			93									
MAV-SF1-01	SF1	flooring + MASTIC	94									Pos. Stop
-02			95									
-03			96									TEM
MAV-SF2-01	SF2	sheet flooring only	97									PLM
-02			98									PLM
-03			599									TEM
			—									
			—									

ALL SAMPLES WILL BE DISPOSED OF NINETY DAYS AFTER ANALYSIS UNLESS OTHERWISE REQUESTED

MATERIAL TYPES

A - <4" Pipe Fitting
B - 4-8" Pipe Fitting
C - 9-14" Pipe Fitting
D - >14" Pipe Fitting
E - <4" Pipe
F - 4-8" Pipe
G - 9-14" Pipe
H - >14" Pipe
I - Spray-On/Trowel
J - Floor Tile
K- Tanks/Boiler
L - A>H>U> Insul.
M - A.H.U. Exp. Jt.
N - Ceiling/Wall Tile
O - Fiberboard
P - Other (See notes-Front or back)

PLM TAT - 5 (Days) Hours Same Day
TEM TAT - 3 (Days) Hours Same Day
Do not run TEM if both PLMs are positive

S&ME SFI-002 (REV. 5/93)
This document was prepared pursuant to a specific agreement to address the unique requirements of an S&ME client. Prior to further use, an S&ME professional should be contacted for a complete explanation of its preparation and contents.

BULK SAMPLE
CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
22130686	The Citadel – Mims Avenue Housing		1-18-23	1800	1/19/23
FACILITY 305-308 Mims Avenue		RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
SAMPLER(S) Josh Veloso, James McMillan	**DATE TAKEN** 1/17/2023	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

SAMPLE #	HOMOGENEOUS AREA	MATERIAL TYPE	LAB NUMBER	DATE ANALYZED	ANALYSTS INITIALS	ASBESTOS +	ASBESTOS I	ASBESTOS N/D	ARCHIVE NUMBER	DATE ARCH	ARCHIVERS INITIALS	SPECIAL INSTRUCTIONS
MAV-SF3-01	SF3	flooring + mastic	23-600									PLM pos. stop
-02	"	"	01									PLM
-03	"	"	02									TEM
MAV-SF4-01	SF4	"	03									PLM
-02	"	"	04									PLM
-03	"	"	05									TEM
MAV-SF5-01	SF5	flooring only	06									PLM
-02	"	"	07									PLM
-03	"	"	08									TEM
MAV-FF-01	FF	floor felt	09									PLM
-02	"	"	10									PLM
-03	"	"	11									TEM
MAV-CB-01	CB	mastic only	12									PLM
-02	"	"	13									PLM
-03	"	"	614									TEM

ALL SAMPLES WILL BE DISPOSED OF NINETY DAYS AFTER ANALYSIS UNLESS OTHERWISE REQUESTED

MATERIAL TYPES

A - <4" Pipe Fitting
B - 4-8" Pipe Fitting
C - 9-14" Pipe Fitting
D - >14" Pipe Fitting
E - <4" Pipe
F - 4-8" Pipe
G - 9-14" Pipe
H - >14" Pipe
I - Spray-On/Trowel
J - Floor Tile
K- Tanks/Boiler
L - A>H>U> Insul.
M - A.H.U. Exp. Jt.
N - Ceiling/Wall Tile
O - Fiberboard
P - Other (See notes-Front or back)

PLM TAT - 5 Days Hours Same Day
TEM TAT - 3 Days Hours Same Day
Do not run TEM if both PLMs are positive

S&ME SFI-002 (REV. 5/93) This document was prepared pursuant to a specific agreement to address the unique requirements of an S&ME client. Prior to further use, an S&ME professional should be contacted for a complete explanation of its preparation and contents.

BULK SAMPLE
CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
22130686	The Citadel – Mims Avenue Housing		1-18-23	1800	1/19/23
FACILITY		RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
305-308 Mims Avenue					
SAMPLER(S)	**DATE TAKEN**	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Josh Veloso, James McMillan	1/17/2023				

SAMPLE #	HOMOGENEOUS AREA	MATERIAL TYPE	LAB NUMBER	DATE ANALYZED	ANALYSTS INITIALS	ASBESTOS +	ASBESTOS I	ASBESTOS N/D	ARCHIVE NUMBER	DATE ARCH	ARCHIVERS INITIALS	SPECIAL INSTRUCTIONS
MAV-SM-01	SM	mastic only	23-615									PLM pos. stop
-02	"	"	16									PLM
-03	"	"	17									TEM
MAV-SM2-01	SM2	"	18									PLM
-02	"	"	19									PLM
-03	"	"	20									TEM
MAV-DM1-01	DM1	"	21									PLM
-02	"	"	22									PLM
-03	"	"	23									TEM
MAV-PI-01	PI	pipe insulation	24									PLM
-02	"	"	25									"
-03	"	"	626									"

ALL SAMPLES WILL BE DISPOSED OF NINETY DAYS AFTER ANALYSIS UNLESS OTHERWISE REQUESTED

MATERIAL TYPES

A - <4" Pipe Fitting
B – 4-8" Pipe Fitting
C – 9-14" Pipe Fitting
D – >14" Pipe Fitting
E – <4" Pipe
F – 4-8" Pipe
G – 9-14" Pipe
H – >14" Pipe
I – Spray-On/Trowel
J – Floor Tile
K– Tanks/Boiler
L – A>H>U> Insul.
M – A.H.U. Exp. Jt.
N – Ceiling/Wall Tile
O – Fiberboard
P – Other (See notes-Front or back)

PLM TAT - 5 (Days) Hours Same Day
TEM TAT - 3 (Days) Hours Same Day
Do not run TEM if both PLMs are positive

S&ME SFI-002 (REV. 5/93)
This document was prepared pursuant to a specific agreement to address the unique requirements of an S&ME client. Prior to further use, an S&ME professional should be contacted for a complete explanation of its preparation and contents.

EMSL Analytical, Inc.
10801 Southern Loop Blvd Pineville, NC 28134
Tel/Fax: (704) 525-2205 / (704) 525-2382
http://www.EMSL.com / charlottelab@emsl.com

EMSL Order: 412300914
Customer ID: SMEI54
Customer PO: 22130686
Project ID:

Attention: Jane Wasilewski
S&ME, Inc.
9771D Southern Pine Blvd.
Charlotte, NC 28273

Project: 22130686 (305-308 Mims)

Phone: (704) 940-1830
Fax: (704) 565-4929
Received Date: 01/24/2023 12:45 PM
Analysis Date: 01/26/2023
Collected Date:

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
MAV-SF1-03 *412300914-0001*	Sheet Floor	Beige Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MAV-SF1-03 *412300914-0002*	Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MAV-SF2-03 *412300914-0003*	Sheet Floor Only	Gray Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MAV-SF3-03 *412300914-0004*	Sheet Floor	Gray/White Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MAV-SF3-03 *412300914-0005*	Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MAV-SF4-03 *412300914-0006*	Sheet Floor	White Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MAV-SF4-03 *412300914-0007*	Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MAV-SF5-03 *412300914-0008*	Sheet Floor Only	Beige Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MAV-FF-03 *412300914-0009*	Felt	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MAV-CB-03 *412300914-0010*	Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MAV-SM-03 *412300914-0011*	Mastic	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
MAV-DM1-03 *412300914-0012*	Mastic Only	Gray Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 01/26/2023 15:03:27

OrderID: 412300914

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 412300914

EMSL ANALYTICAL, INC.
10801 SOUTHERN LOOP BLVD
PINEVILLE, NC 28134
PHONE: 704-525-2205
FAX: 704-525-2382

Company : S&ME Inc.	**EMSL-Bill to:** ☒ Same ☐ Different If Bill to Is Different note Instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 9751 Southern Pine Blvd.	
City: Charlotte **State/Province: NC**	**Zip/Postal Code: 28273** **Country:**
Report To (Name): Jane Wasilewski	**Telephone #: 704-940-1830**
Email Address: jwasilewski@smeinc.com	**Fax #:** **Purchase Order:**
Project Name/Number:	**Please Provide Results:** ☐ Fax ☒ Email
U.S. State Samples Taken:	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☒ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

**For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☒ TEM EPA NOB
- ☐ ~~NYS NOB 198.4~~ (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ TEM Qual. via Filtration Technique
- ☐ TEM Qual. via Drop-Mount Technique

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** | **Filter Pore Size (Air Samples):** ☐ 0.8µm ☐ 0.45µm

Samplers Name: | **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
MAV-SF1-03	Sheet Floor		
↓	Mastic		
MAV-SF2-03	sheet Floor only		
MAV-SF3-03	sheet Floor		
↓	Mastic		
MAV-SF4-03	sheet Floor		
↓	Mastic		
MAV-SF5-03	sheet Floor only		

Client Sample # (s): **Total # of Samples:** 12

Relinquished (Client): **Date:** 1/24/23 **Time:**

Received (Lab): **Date:** 1/24/23 **Time:** 1245pm N/N

Comments/Special Instructions:
****EMAIL INVOICE TO: smeinc_invoice@concursolutions.com with this contact printed on the invoice: Terry Ribburg

22130686 (305-308 Mins)

OrderID: 412300914

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 914

EMSL ANALYTICAL, INC
10801 SOUTHERN LOOP BLVD
PINEVILLE NC, 28134
PHONE: 704-525-2205
FAX: 704-525-2382

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
MAV-FF-03	Felt		
MAV-CB-03	Mastic		
MAV-SM-03	Mastic		
MAV-DM1-03	Mastic only		

***Comments/Special Instructions:**

Page 2 of 2 pages

EMSL Analytical, Inc.
10801 Southern Loop Blvd Pineville, NC 28134
Tel/Fax: (704) 525-2205 / (704) 525-2382
http://www.EMSL.com / charlottelab@emsl.com

EMSL Order: 412300914
Customer ID: SMEI54
Customer PO: 22130686
Project ID:

Attention: Jane Wasilewski
S&ME, Inc.
9771D Southern Pine Blvd.
Charlotte, NC 28273

Project: 22130686 (305-308 Mims)

Phone: (704) 940-1830
Fax: (704) 565-4929
Received Date: 01/24/2023 12:45 PM
Analysis Date: 01/26/2023
Collected Date:

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types

Analyst(s)

Aaron Hartley (12)

Lee Plumley, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 01/26/2023 15:03:27

Appendix V – Summary of XRF Lead Analyzer Readings

Summary of Asbestos Results
301-304 & 305-308 Mims Avenue
The Citadel
Charleston, South Carolina

S&ME Project No. 22130686
Date of Testing: January 17, 2023

XLN No.	Site	Floor	Side	Room/Area	Structure	Component	Substrate	Color	Condition	Results	Action Level	Lead	Units
1									Calibration			1.1	mg/cm^2
2									Calibration			1.1	mg/cm^2
3									Calibration			1	mg/cm^2
4	301 Mims	1	A	Storage	Wall		Brick	Beige	Intact	NEG	0.7	0	mg/cm^2
5	***301 Mims***	***1***	***A***	***Storage***	***Door***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***4.2***	***mg/cm^2***
6	301 Mims	1	A	Storage	Ceiling		Concrete	White	Intact	NEG	0.7	0	mg/cm^2
7	***301 Mims***	***1***	***A***	***Bathroom***	***Window***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***3.1***	***mg/cm^2***
8	301 Mims	1	A	Bathroom	Window	Sash	Wood	White	Intact	NEG	0.7	0.2	mg/cm^2
9	301 Mims	1	A	Bathroom	Window	Sash	Wood	White	Intact	NEG	0.7	0	mg/cm^2
10	***301 Mims***	***1***	***A***	***Bathroom***	***Window***	***Sill***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***3.1***	***mg/cm^2***
11	***301 Mims***	***1***	***A***	***Bathroom***	***Window***	***Apron***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***3***	***mg/cm^2***
12	301 Mims	1	A	Bathroom	Baseboard		Wood	White	Intact	NEG	0.7	0.2	mg/cm^2
13	301 Mims	1	C	Bathroom	Door		Wood	White	Intact	NEG	0.7	0	mg/cm^2
14	***301 Mims***	***1***	***C***	***Bathroom***	***Door***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.5***	***mg/cm^2***
15	301 Mims	1	C	Kitchen	Wall		Plaster	Beige	Intact	NEG	0.7	0.6	mg/cm^2
16	301 Mims	1	B	Kitchen	Wall		Plaster	Beige	Intact	NEG	0.7	0.1	mg/cm^2
17	***301 Mims***	***1***	***B***	***Kitchen***	***Window***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***3.2***	***mg/cm^2***
18	***301 Mims***	***1***	***B***	***Kitchen***	***Window***	***Sash***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***5.6***	***mg/cm^2***
19	301 Mims	1	B	Kitchen	Window	Sill	Wood	White	Intact	NEG	0.7	0.4	mg/cm^2
20	301 Mims	1	B	Kitchen	Window	Sill	Wood	White	Intact	NEG	0.7	0.6	mg/cm^2
21	***301 Mims***	***1***	***B***	***Kitchen***	***Window***	***Apron***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.5***	***mg/cm^2***
22	***301 Mims***	***1***	***C***	***Kitchen***	***Door***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***3***	***mg/cm^2***
23	***301 Mims***	***1***	***C***	***Kitchen***	***Door***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.2***	***mg/cm^2***

XLN No.	Site	Floor	Side	Room/Area	Structure	Component	Substrate	Color	Condition	Results	Action Level	Lead	Units
24	***301 Mims***	***1***	***A***	***Kitchen***	***Baseboard***		***Wood***	***White***	***Intact***	***POS***	***0.7***	***3.1***	***mg/cm²***
25	301 Mims	1	A	Den	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm²
26	301 Mims	1	B	Den	Wall		Plaster	Beige	Intact	NEG	0.7	0.2	mg/cm²
27	301 Mims	1	C	Den	Wall		Plaster	Beige	Intact	NEG	0.7	0.1	mg/cm²
28	301 Mims	1	C	Den	Door		Wood	White	Intact	NEG	0.7	0.2	mg/cm²
29	***301 Mims***	***1***	***C***	***Den***	***Door***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.2***	***mg/cm²***
30	301 Mims	1	C	Den	Ceiling		Plaster	White	Intact	NEG	0.7	0.1	mg/cm²
31	***301 Mims***	***1***	***C***	***Den***	***Ceiling***	***Trim***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***1.4***	***mg/cm²***
32	***301 Mims***	***1***	***C***	***Stairwell***	***Stair***	***Riser***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***1.2***	***mg/cm²***
33	301 Mims	1	C	Stairwell	Stair	Handrail	Wood	White	Intact	NEG	0.7	0	mg/cm²
34	301 Mims	1	C	Stairwell	Stair	Baluster	Wood	White	Intact	NEG	0.7	0.1	mg/cm²
35	301 Mims	1	C	Stairwell	Stair	Baluster	Wood	White	Intact	NEG	0.7	0.2	mg/cm²
36	301 Mims	1	C	Stairwell	Stair	Stringer	Wood	White	Intact	NEG	0.7	0.3	mg/cm²
37	***301 Mims***	***1***	***D***	***Stairwell***	***Door***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***5.1***	***mg/cm²***
38	301 Mims	1	D	Stairwell	Door		Wood	White	Intact	NEG	0.7	0.1	mg/cm²
39	***301 Mims***	***2***	***A***	***Bathroom***	***Cabinet***		***Wood***	***White***	***Intact***	***POS***	***0.7***	***2***	***mg/cm²***
40	***301 Mims***	***2***	***A***	***Bathroom***	***Cabinet***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.2***	***mg/cm²***
41	***301 Mims***	***2***	***C***	***Bathroom***	***Bathtub***		***Porcelain***	***White***	***Intact***	***POS***	***0.7***	***34***	***mg/cm²***
42	***301 Mims***	***2***	***C***	***Bathroom***	***Wall***		***Ceramic***	***White***	***Intact***	***POS***	***0.7***	***5.2***	***mg/cm²***
43	301 Mims	2	C	Bathroom	Floor		Ceramic	White	Intact	NEG	0.7	0.1	mg/cm²
44	301 Mims	2	C	Foyer	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm²
45	301 Mims	2	A	Office	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm²
46	***301 Mims***	***2***	***B***	***Foyer***	***Window***	***Sash***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***5.5***	***mg/cm²***
47	***301 Mims***	***1***	***A***	***Exterior***	***Door***		***Wood***	***Green***	***Intact***	***POS***	***0.7***	***1.6***	***mg/cm²***

XLN No.	Site	Floor	Side	Room/Area	Structure	Component	Substrate	Color	Condition	Results	Action Level	Lead	Units
48	***301 Mims***	***1***	***A***	***Exterior***	***Door***	***Casing***	***Wood***	***Green***	***Intact***	***POS***	***0.7***	***3.4***	***mg/cm²***
49	301 Mims	1	A	Porch	Floor		Concrete	Red	Intact	NEG	0.7	0.1	mg/cm²
50	301 Mims	1	A	Porch	Floor		Concrete	Grey	Intact	NEG	0.7	0.2	mg/cm²
51	***301 Mims***	***1***	***B***	***Porch***	***Ceiling***	***Trim***	***Wood***	***Green***	***Intact***	***POS***	***0.7***	***6.3***	***mg/cm²***
52	301 Mims	1	B	Porch	Ceiling		Concrete	Beige	Intact	NEG	0.7	0	mg/cm²
53	301 Mims	1	B	Porch	Handrail		Metal	Green	Intact	NEG	0.7	0.2	mg/cm²
54	301 Mims	1	B	Porch	Handrail		Metal	Green	Intact	NEG	0.7	0.3	mg/cm²
55	301 Mims	1	C	Exterior	Window	Casing	Wood	Green	Deteriorated	NEG	0.7	0	mg/cm²
56	302 Mims	1	C	Kitchen	Wall		Plaster	Beige	Intact	NEG	0.7	0.6	mg/cm²
57	302 Mims	1	B	Kitchen	Wall		Plaster	Beige	Intact	NEG	0.7	0.2	mg/cm²
58	302 Mims	1	D	Den	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm²
59	302 Mims	1	B	Living Room	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm²
60	302 Mims	1	B	Living Room	Stair	Stringer	Wood	White	Intact	NEG	0.7	0.3	mg/cm²
61	302 Mims	1	B	Living Room	Stair	Baluster	Wood	White	Intact	NEG	0.7	0	mg/cm²
62	302 Mims	1	B	Living Room	Stair	Handrail	Wood	Black	Intact	NEG	0.7	0	mg/cm²
63	302 Mims	1	A	Stairwell	Ceiling		Plaster	White	Intact	NEG	0.7	0	mg/cm²
64	***302 Mims***	***2***	***A***	***Office***	***Window***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***3***	***mg/cm²***
65	***302 Mims***	***2***	***A***	***Office***	***Window***	***Sash***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***5.5***	***mg/cm²***
66	***302 Mims***	***2***	***A***	***Office***	***Window***	***Sill***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***3.6***	***mg/cm²***
67	302 Mims	2	A	Office	Window	Apron	Wood	White	Intact	NEG	0.7	0.1	mg/cm²
68	***302 Mims***	***2***	***A***	***Office***	***Window***	***Apron***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.5***	***mg/cm²***
69	***302 Mims***	***2***	***B***	***Office***	***Door***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***3.2***	***mg/cm²***
70	302 Mims	2	B	Office	Door		Wood	White	Intact	NEG	0.7	0.2	mg/cm²
71	***302 Mims***	***2***	***B***	***Foyer***	***Baseboard***		***Wood***	***White***	***Intact***	***POS***	***0.7***	***1.7***	***mg/cm²***

XLN No.	Site	Floor	Side	Room/Area	Structure	Component	Substrate	Color	Condition	Results	Action Level	Lead	Units
72	303 Mims	1	C	Den	Wall		Plaster	Beige	Intact	NEG	0.7	0.2	mg/cm^2
73	303 Mims	1	A	Den	Wall		Plaster	Beige	Intact	NEG	0.7	0.3	mg/cm^2
74	303 Mims	1	B	Kitchen	Wall		Plaster	Beige	Intact	NEG	0.7	0.2	mg/cm^2
75	303 Mims	1	D	Storage	Wall		Plaster	Beige	Intact	NEG	0.7	0.1	mg/cm^2
76	***303 Mims***	***1***	***B***	***Stairwell***	***Stair***	***Stringer***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.1***	***mg/cm^2***
77	303 Mims	1	B	Stairwell	Stair	Baluster	Wood	Black	Intact	NEG	0.7	0	mg/cm^2
78	303 Mims	2	B	Office	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm^2
79	303 Mims	2	C	Corridor	Wall		Plaster	Beige	Intact	NEG	0.7	0.5	mg/cm^2
80	303 Mims	1	C	Stairwell	Ceiling		Plaster	White	Intact	NEG	0.7	0	mg/cm^2
81	***303 Mims***	***1***	***C***	***Stairwell***	***Ceiling***	***Trim***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.6***	***mg/cm^2***
82	304 Mims	1	A	Kitchen	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm^2
83	304 Mims	1	B	Den	Wall		Plaster	Black	Intact	NEG	0.7	0	mg/cm^2
84	304 Mims	1	C	Den	Door		Wood	White	Intact	NEG	0.7	0.1	mg/cm^2
85	***304 Mims***	***1***	***C***	***Den***	***Door***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***3.3***	***mg/cm^2***
86	***304 Mims***	***1***	***D***	***Stairwell***	***Stair***	***Stringer***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***1.4***	***mg/cm^2***
87	304 Mims	1	D	Stairwell	Stair	Baluster	Wood	White	Intact	NEG	0.7	0.2	mg/cm^2
88	304 Mims	1	D	Stairwell	Stair	Handrail	Wood	White	Intact	NEG	0.7	0.1	mg/cm^2
89	***304 Mims***	***1***	***D***	***Stairwell***	***Stair***	***Riser***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***1.4***	***mg/cm^2***
90	304 Mims	1	D	Stairwell	Ceiling		Plaster	White	Intact	NEG	0.7	0	mg/cm^2
91	304 Mims	2	D	Bathroom	Floor		Ceramic	White	Intact	NEG	0.7	0	mg/cm^2
92	304 Mims	1	A	Exterior	Wall		Concrete	Beige	Intact	NEG	0.7	0.1	mg/cm^2
93	***304 Mims***	***1***	***A***	***Exterior***	***Door***		***Wood***	***Green***	***Intact***	***POS***	***0.7***	***4.9***	***mg/cm^2***
94	***304 Mims***	***1***	***A***	***Exterior***	***Door***	***Casing***	***Wood***	***Green***	***Intact***	***POS***	***0.7***	***4***	***mg/cm^2***
95	304 Mims	1	A	Exterior	Floor		Concrete	Red	Intact	NEG	0.7	0.1	mg/cm^2

XLN No.	Site	Floor	Side	Room/Area	Structure	Component	Substrate	Color	Condition	Results	Action Level	Lead	Units
96	304 Mims	1	A	Exterior	Floor		Concrete	Grey	Intact	NEG	0.7	0	mg/cm^2
97	304 Mims	1	A	Exterior	Handrail		Metal	Green	Intact	NEG	0.7	0.6	mg/cm^2
98	304 Mims	1	A	Exterior	Window	Casing	Wood	Green	Intact	NEG	0.7	0.2	mg/cm^2
99	304 Mims	1	A	Exterior	Window	Sill	Wood	Green	Intact	NEG	0.7	0	mg/cm^2
100									Calibration			0.9	mg/cm^2
101									Calibration			0.9	mg/cm^2
102									Calibration			0.9	mg/cm^2
103	305 Mims	1	A	Exterior	Wall		Brick	Beige	Intact	NEG	0.7	0	mg/cm^2
104	***305 Mims***	***1***	***B***	***Storage***	***Door***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***5***	***mg/cm^2***
105	305 Mims	1	B	Storage	Door		Wood	White	Intact	NEG	0.7	0	mg/cm^2
106	***305 Mims***	***1***	***D***	***Kitchen***	***Window***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.9***	***mg/cm^2***
107	***305 Mims***	***1***	***D***	***Kitchen***	***Window***	***Sill***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***3***	***mg/cm^2***
108	***305 Mims***	***1***	***D***	***Kitchen***	***Window***	***Apron***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***1.8***	***mg/cm^2***
109	305 Mims	1	D	Kitchen	Window	Sash	Wood	White	Intact	NEG	0.7	0	mg/cm^2
110	305 Mims	1	B	Kitchen	Cabinet		Wood	White	Intact	NEG	0.7	0	mg/cm^2
111	305 Mims	1	A	Kitchen	Cabinet		Wood	White	Intact	NEG	0.7	0	mg/cm^2
112	***305 Mims***	***1***	***D***	***Kitchen***	***Baseboard***		***Wood***	***White***	***Intact***	***POS***	***0.7***	***1.5***	***mg/cm^2***
113	305 Mims	1	C	Den	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm^2
114	305 Mims	1	C	Den	Door		Wood	White	Intact	NEG	0.7	0.1	mg/cm^2
115	***305 Mims***	***1***	***C***	***Den***	***Door***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.6***	***mg/cm^2***
116	***305 Mims***	***1***	***D***	***Stairwell***	***Stair***	***Stringer***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2***	***mg/cm^2***
117	305 Mims	1	D	Stairwell	Stair	Baluster	Wood	White	Intact	NEG	0.7	0	mg/cm^2
118	***305 Mims***	***1***	***D***	***Stairwell***	***Stair***	***Riser***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***1.1***	***mg/cm^2***
119	305 Mims	1	A	Stairwell	Ceiling		Plaster	White	Intact	NEG	0.7	0.3	mg/cm^2

XLN No.	Site	Floor	Side	Room/Area	Structure	Component	Substrate	Color	Condition	Results	Action Level	Lead	Units
120	305 Mims	1	A	Stairwell	Ceiling		Plaster	White	Intact	NEG	0.7	0.5	mg/cm^2
121	305 Mims	2	C	Bathroom	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm^2
122	***305 Mims***	***2***	***C***	***Bathroom***	***Wall***		***Ceramic***	***White***	***Intact***	***POS***	***0.7***	***6.3***	***mg/cm^2***
123	305 Mims	2	C	Bathroom	Floor		Ceramic	Beige	Intact	NEG	0.7	0.2	mg/cm^2
124	***305 Mims***	***2***	***C***	***Bathroom***	***Bathtub***		***Porcelain***	***White***	***Intact***	***POS***	***0.7***	***25.5***	***mg/cm^2***
125	305 Mims	2	A	Bathroom	Cabinet		Wood	White	Intact	NEG	0.7	0.1	mg/cm^2
126	305 Mims	2	A	Bathroom	Cabinet		Wood	White	Intact	NEG	0.7	0.2	mg/cm^2
127	***305 Mims***	***2***	***A***	***Bathroom***	***Cabinet***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***4.8***	***mg/cm^2***
128	305 Mims	2	A	Office	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm^2
129	***305 Mims***	***2***	***D***	***Office***	***Door***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.9***	***mg/cm^2***
130	305 Mims	2	D	Office	Door		Wood	White	Intact	NEG	0.7	0.2	mg/cm^2
131	***305 Mims***	***1***	***A***	***Exterior***	***Door***		***Wood***	***Green***	***Intact***	***POS***	***0.7***	***6.3***	***mg/cm^2***
132	***305 Mims***	***1***	***A***	***Exterior***	***Door***	***Casing***	***Wood***	***Green***	***Intact***	***POS***	***0.7***	***5.9***	***mg/cm^2***
133	***305 Mims***	***1***	***A***	***Exterior***	***Ceiling***	***Trim***	***Wood***	***Green***	***Intact***	***POS***	***0.7***	***0.8***	***mg/cm^2***
134	***305 Mims***	***1***	***A***	***Exterior***	***Ceiling***		***Wood***	***Green***	***Intact***	***POS***	***0.7***	***7.6***	***mg/cm^2***
135	305 Mims	1	A	Exterior	Floor		Concrete	Red	Intact	NEG	0.7	0.2	mg/cm^2
136	305 Mims	1	A	Exterior	Floor		Concrete	Grey	Intact	NEG	0.7	0.1	mg/cm^2
137	305 Mims	1	A	Exterior	Wall		Concrete	Beige	Intact	NEG	0.7	0	mg/cm^2
138	***305 Mims***	***1***	***A***	***Exterior***	***Handrail***		***Metal***	***Green***	***Intact***	***POS***	***0.7***	***0.8***	***mg/cm^2***
139	305 Mims	1	A	Exterior	Window	Casing	Metal	Green	Intact	NEG	0.7	0.5	mg/cm^2
140	305 Mims	1	A	Exterior	Window	Sash	Metal	Green	Intact	NEG	0.7	0.1	mg/cm^2
141	306 Mims	1	A	Storage	Wall		Brick	Beige	Intact	NEG	0.7	0.1	mg/cm^2
142	***306 Mims***	***1***	***C***	***Storage***	***Door***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***3.4***	***mg/cm^2***
143	306 Mims	1	D	Kitchen	Cabinet	Door	Wood	White	Intact	NEG	0.7	0	mg/cm^2

XLN No.	Site	Floor	Side	Room/Area	Structure	Component	Substrate	Color	Condition	Results	Action Level	Lead	Units
144	306 Mims	1	D	Kitchen	Cabinet	Casing	Wood	White	Intact	NEG	0.7	0	mg/cm^2
145	306 Mims	1	C	Den	Wall		Plaster	Beige	Intact	NEG	0.7	0.3	mg/cm^2
146	306 Mims	1	B	Den	Wall		Plaster	Beige	Intact	NEG	0.7	0.1	mg/cm^2
147	306 Mims	1	C	Den	Door		Wood	White	Intact	NEG	0.7	0.2	mg/cm^2
148	***306 Mims***	***1***	***C***	***Den***	***Door***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.1***	***mg/cm^2***
149	306 Mims	1	C	Kitchen	Window	Sash	Wood	White	Intact	NEG	0.7	0	mg/cm^2
150	***306 Mims***	***1***	***C***	***Kitchen***	***Baseboard***		***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.6***	***mg/cm^2***
151	306 Mims	1	C	Stairwell	Stair	Baluster	Wood	White	Intact	NEG	0.7	0	mg/cm^2
152	306 Mims	1	C	Stairwell	Stair	Handrail	Wood	White	Intact	NEG	0.7	0	mg/cm^2
153	306 Mims	1	A	Stairwell	Ceiling		Plaster	White	Intact	NEG	0.7	0.3	mg/cm^2
154	***306 Mims***	***1***	***A***	***Stairwell***	***Ceiling***	***Trim***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***4.7***	***mg/cm^2***
155	***306 Mims***	***2***	***A***	***Bathroom***	***Cabinet***	***Door***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.4***	***mg/cm^2***
156	***306 Mims***	***2***	***A***	***Bathroom***	***Cabinet***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.6***	***mg/cm^2***
157	***306 Mims***	***2***	***B***	***Bathroom***	***Window***	***Casing***	***Wood***	***White***	***Deteriorated***	***POS***	***0.7***	***2.2***	***mg/cm^2***
158	***306 Mims***	***2***	***B***	***Bathroom***	***Window***	***Sill***	***Wood***	***White***	***Deteriorated***	***POS***	***0.7***	***3.3***	***mg/cm^2***
159	***306 Mims***	***2***	***B***	***Bathroom***	***Window***	***Apron***	***Wood***	***White***	***Deteriorated***	***POS***	***0.7***	***1.7***	***mg/cm^2***
160	306 Mims	2	B	Bathroom	Window	Sash	Wood	White	Intact	NEG	0.7	0	mg/cm^2
161	306 Mims	2	B	Office	Wall		Plaster	Beige	Intact	NEG	0.7	0.1	mg/cm^2
162	306 Mims	2	D	Office	Wall		Plaster	Beige	Intact	NEG	0.7	0.4	mg/cm^2
163	306 Mims	1	A	Exterior	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm^2
164	***306 Mims***	***1***	***A***	***Exterior***	***Door***		***Wood***	***Green***	***Intact***	***POS***	***0.7***	***5.9***	***mg/cm^2***
165	***306 Mims***	***1***	***A***	***Exterior***	***Door***	***Casing***	***Wood***	***Green***	***Intact***	***POS***	***0.7***	***5.2***	***mg/cm^2***
166	307 Mims	1	A	Kitchen	Wall		Plaster	Green	Intact	NEG	0.7	0.1	mg/cm^2
167	307 Mims	1	C	Kitchen	Wall		Plaster	Green	Intact	NEG	0.7	0	mg/cm^2

XLN No.	Site	Floor	Side	Room/Area	Structure	Component	Substrate	Color	Condition	Results	Action Level	Lead	Units
168	307 Mims	1	C	Kitchen	Wall		Plaster	Beige	Intact	NEG	0.7	0.4	mg/cm^2
169	***307 Mims***	***1***	***D***	***Den***	***Door***	***Casing***	***Wood***	***White***	***Deteriorated***	***POS***	***0.7***	***3.5***	***mg/cm^2***
170	307 Mims	1	C	Living Room	Door		Wood	White	Intact	NEG	0.7	0	mg/cm^2
171	***307 Mims***	***1***	***C***	***Living Room***	***Door***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.6***	***mg/cm^2***
172	***307 Mims***	***1***	***C***	***Living Room***	***Baseboard***		***Wood***	***White***	***Intact***	***POS***	***0.7***	***2***	***mg/cm^2***
173	***307 Mims***	***1***	***A***	***Living Room***	***Window***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***3.1***	***mg/cm^2***
174	307 Mims	1	A	Living Room	Window	Sill	Wood	White	Intact	NEG	0.7	0	mg/cm^2
175	307 Mims	1	A	Living Room	Window	Sill	Wood	White	Intact	NEG	0.7	0	mg/cm^2
176	***307 Mims***	***1***	***A***	***Living Room***	***Window***	***Apron***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***2.9***	***mg/cm^2***
177	***307 Mims***	***1***	***C***	***Stairwell***	***Stair***	***Riser***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***1.7***	***mg/cm^2***
178	307 Mims	1	C	Stairwell	Stair	Baluster	Wood	stained	Intact	NEG	0.7	0	mg/cm^2
179	307 Mims	2	B	Corridor	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm^2
180	307 Mims	2	A	Office	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm^2
181	307 Mims	1	A	Living Room	Ceiling		Plaster	White	Intact	NEG	0.7	0	mg/cm^2
182	308 Mims	1	D	Kitchen	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm^2
183	308 Mims	1	B	Kitchen	Wall		Plaster	Beige	Intact	NEG	0.7	0.3	mg/cm^2
184	***308 Mims***	***1***	***B***	***Living Room***	***Window***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***3.2***	***mg/cm^2***
185	308 Mims	1	B	Living Room	Window	Sill	Wood	White	Intact	NEG	0.7	0.4	mg/cm^2
186	***308 Mims***	***1***	***B***	***Living Room***	***Window***	***Apron***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***1.9***	***mg/cm^2***
187	308 Mims	1	B	Living Room	Window	Sash	Wood	White	Intact	NEG	0.7	0	mg/cm^2
188	***308 Mims***	***1***	***C***	***Living Room***	***Door***		***Wood***	***White***	***Intact***	***POS***	***0.7***	***1.6***	***mg/cm^2***
189	***308 Mims***	***1***	***C***	***Living Room***	***Door***	***Casing***	***Wood***	***White***	***Intact***	***POS***	***0.7***	***4.5***	***mg/cm^2***
190	308 Mims	1	C	Kitchen	Cabinet	Casing	Wood	White	Intact	NEG	0.7	0	mg/cm^2
191	308 Mims	1	C	Kitchen	Cabinet	Door	Wood	White	Intact	NEG	0.7	0	mg/cm^2

XLN No.	Site	Floor	Side	Room/Area	Structure	Component	Substrate	Color	Condition	Results	Action Level	Lead	Units
192	308 Mims	2	A	Corridor	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm^2
193	308 Mims	2	B	Corridor	Wall		Plaster	Beige	Intact	NEG	0.7	0	mg/cm^2
194	308 Mims	2	D	Office	Window	Sash	Wood	White	Intact	NEG	0.7	0	mg/cm^2
195	308 Mims	1	C	Exterior	Wall		Concrete	Black	Intact	NEG	0.7	0	mg/cm^2
196	308 Mims	1	C	Exterior	Window	Casing	Metal	Green	Intact	NEG	0.7	0.3	mg/cm^2
197	304 Mims	1	B	Kitchen	Cabinet	Door	Wood	White	Intact	NEG	0.7	0	mg/cm^2
198	304 Mims	1	B	Kitchen	Cabinet	Casing	Wood	White	Intact	NEG	0.7	0	mg/cm^2
199	303 Mims	1	D	Kitchen	Cabinet	Casing	Wood	White	Intact	NEG	0.7	0	mg/cm^2
200	303 Mims	1	D	Kitchen	Cabinet	Door	Wood	White	Intact	NEG	0.7	0	mg/cm^2
201									Calibration			1	mg/cm^2
202									Calibration			1	mg/cm^2
203									Calibration			0.8	mg/cm^2

The SCDHEC requires special disposal for paint containing lead ≥ 0.7 mg/cm^2

The OSHA does not recognize a concentration of lead for definition purposes, only the airborne concentration a worker is exposed.

Bold = Lead results meeting or exceeding SCDHEC disposal level of 0.7 mg/cm^2