



Asbestos & Lead Based Paint Assessment

City of Spartanburg
571 Bee Street
Spartanburg, South Carolina 29301

Prepared for:

The City of Spartanburg
440 South Church St., Suite B
Spartanburg, South Carolina 29306

Prepared by:

Apex Environmental Management, Inc.
7 Winchester Court
Mauldin, South Carolina 29662

Project Number: 0521-99

October 29, 2021





Apex Project Number 0521-99

October 29, 2021

Mr. Jeff Tillerson
City of Spartanburg
440 South Church Street, Suite B
Spartanburg, SC 29306

Reference: Asbestos and Lead-Based Paint Assessment Services
571 Bee Street
Spartanburg, South Carolina 29301

Dear Mr. Tillerson:

Apex Environmental Management, Inc. (Apex) is pleased to provide the results of our assessment services for the referenced property.

This report and the associated attachments summarize our evaluation of the conditions observed at the project site. The findings presented by Apex are based upon sampling performed in the subject building. There is a chance that undetected ACM may exist in the building between walls or in other areas that would only be exposed during demolition or structural renovations. Should material be discovered that could potentially contain asbestos during the demolition process, additional samples of the material should be collected by a licensed asbestos inspector and submitted to an accredited laboratory for analytical interpretation. Our recommendations are based on the guidelines presented in EPA and/or OSHA regulations.

Please note that this document is not a specification for asbestos removal. It does not contain means and methods for abatement. Quantities are estimates and contractors must verify amounts prior to bidding or removal. If you are planning an abatement project, please contact Apex to discuss the requirements. Use of this document without the express written consent of Apex is at the sole risk of the user and or/abatement contractor.

The conclusions and/or recommendations contained in this report are based on our understanding of the applicable standards at the time this report was prepared. No warranty, expressed or implied, is made. If you have any questions please feel free to contact us at (864) 404-3210.

Respectfully submitted,
APEX ENVIRONMENTAL MANAGEMENT, INC.

Stephanie Hamby
Project Manager

Tom Oliver
Vice President

Appendices

7 Winchester Court
Mauldin, SC 29662
864.404.3210 office
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ASBESTOS AND LEAD BASED PAINT ASSESSMENT

**CITY OF SPARTANBURG
571 BEE STREET
SPARTANBURG, SOUTH CAROLINA 29301**

APEX PROJECT NO. 0521-99

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SECTION I

Asbestos & Lead Evaluation Report

ASBESTOS EVALUATION REPORT APEX PROJECT NUMBER: 0521-99
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Date:	10/29/2021	Page Number:	1 of 4
Client:	City of Spartanburg	Client Contact:	Mr. Jeff Tillerson
Client Address:	440 South Church Street Suite B Spartanburg, SC 29306	Client Phone Number:	(864) 596-2911
Project:	Asbestos Evaluation and Lead Based Paint Assessment		
Property Address:	571 Bee Street Spartanburg, SC 29301		
Assessor:	Stephanie Hamby	Date of Assessment:	9/15 & 9/29/2021
Company:	Apex Environmental Management 7 Winchester Court Mauldin, SC 29662	Phone Number:	(864) 404-3210
Purpose of Assessment:	Demolition	Age of Structure:	Approximately 100 years
Building Type:	Residential	Number of Stories:	1
Foundation:	Crawlspace, brick and cmu block	Approximate Square Footage	1,100 SF

EXTERIOR BUILDING MATERIALS

- Gable roof with one layer of shingle and felt.
- White transite siding over felt under siding.
- Wooden windows with glazing and caulk.
- Two wooden doors without caulk.
- Wooden door with no caulk.
- Tar on 2 chimneys – assumed positive to be ACM.

INTERIOR BUILDING MATERIALS

- Drywall with joint compound walls and ceiling throughout and under wood paneling.
- Second layer of unfinished drywall scattered throughout.
- Ceiling texture throughout.
- Multiple types & layers of vinyl flooring with & without mastics throughout.
- Vinyl flooring exists under wood in hallway in front of bathroom.
- Floor felt exists under wood in back left room.

SCOPE OF THE SURVEY

The objectives of the asbestos and lead assessment included the following:

- Identification of suspect asbestos-containing material (ACM) and lead based paints (LBP) in readily observable locations. Limited demolition of building finishes was conducted.
- Asbestos survey with sample collection by a South Carolina accredited inspector.
- Suspect ACM analysis by polarized light microscopy (PLM) utilizing EMSL Analytical, Inc. (EMSL) as an NVLAP certified laboratory, their accreditation number is 200841-0.
- Transmission electron microscopy (TEM) analysis of non-friable organically bound materials suspected to contain asbestos and testing negatively by PLM analysis.
- Lead inspection by a lead inspector certified by the Environmental Protection Agency and licensed to conduct LBP surveys in South Carolina.
- In situ analysis of suspected lead based paints by X-ray fluorescence (XRF).
- Presenting the results in a report identifying confirmed ACMs and LBPs.

METHODS

Asbestos Containing Materials

In order to determine if the suspect materials observed during the visual survey contained asbestos, representative bulk samples were collected and placed in sealed packages. Fifty (50) bulk samples were collected during the survey and submitted to EMSL in Pineville, North Carolina for analysis using the EPA recommended method of Polarized Light Microscopy (PLM) coupled with dispersion staining (Method No. EPA 600/M4-82-020, Dec. 1982). EMSL participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Their NVLAP accreditation number is 200841-0. EPA regulations require that multiple samples of each homogeneous material be collected for laboratory analysis. Sixty-one (61) samples were analyzed due to layering by PLM and positive stop methods. In accordance with South Carolina Regulation 61-86.1, non-friable organically bound materials that are reported to be non-asbestos containing by PLM analysis must also be analyzed by Transmission Electron Microscopy (TEM). Nineteen (19) samples were analyzed using TEM.

Lead-Based Paint

Lead painted surfaces were analyzed in place using X-ray fluorescence. Painted surfaces were selected based on color of topcoat, underlying layers and substrate on which it was painted.

RESULTS

Asbestos Results

The EPA defines an asbestos-containing material (ACM) as a material containing more than 1% asbestos. OSHA defines ACM as a material containing detectable amounts of asbestos. Provided below is a general discussion of the asbestos containing materials identified in the residence. A specific *PLM and TEM Data Table* is located in Appendix II of this report and identifies positive materials and designates approximate quantities.

A portion of the front porch floor boards was observed to be damaged. The building was fully assessed; however, if additional ACM is discovered during demolition activities, Apex recommends that work activities stop until the suspect building materials may be sampled and analyzed.

Suspect asbestos containing materials that were identified to be asbestos containing include:

- Approximately 1,700 SF of transite siding.
- Approximately 2,800 SF of drywall walls and ceilings throughout. A second layer of contaminated drywall exists scattered throughout.
- Approximately 6 LF of tar on 1 chimney – assumed positive.

Lead Based Paint

OSHA does not recognize a threshold level of lead for definition purposes, only the presence or absence of lead. The current OSHA regulations recognize an airborne action level of thirty micrograms per cubic meter ($30 \mu\text{g}/\text{m}^3$) during an eight-hour workday and a permissible exposure level of fifty micrograms per cubic meter ($50 \mu\text{g}/\text{m}^3$) for employees.

Currently, EPA defines LBP as paint containing in excess of, or equal to, $1.0 \text{ mg}/\text{cm}^2$. *XRF LBP Data Sheets* providing XRF results for testing combinations can be found in the Appendices at the conclusion of this report. Paint-chip sampling was not required for XRF inconclusive values.

No surfaces were identified in the building that tested in excess of the regulatory definition of LBP.

RECOMMENDATIONS AND DISCUSSION

Asbestos Containing Materials

If the above referenced asbestos materials are to be disturbed by renovations or demolition, the asbestos must be removed in accordance with EPA, State of South Carolina and OSHA asbestos regulations. The State of South Carolina, Department of Health and Environmental Control (DHEC) has specific regulations that must be adhered to during asbestos removal/abatement projects.

APEX recommends the following:

1. Abate the asbestos containing materials in the structure prior to renovation or demolition.
2. Follow applicable asbestos regulations during renovation or demolition of the structure. You should be aware that stringent requirements are imposed upon anyone renovating or demolishing a structure in which ACM will be disturbed. This work must be performed in accordance with OSHA asbestos regulations, 29 CFR 1910 & 1926, and NESHAP asbestos regulations 40 CFR 61, subpart M. South Carolina regulations require the accreditation of personnel who work in the asbestos field and notification and permitting fees for asbestos removal projects. There is a 10 working day notification period required prior to abatement of asbestos in a facility. Failure to take proper precautions and actions to protect human health and the environment can result in penalties, danger to personnel, and construction delays.

Lead-Based Paint

Changes to state and federal regulations have changed the disposal options for LBP waste and LBP residue. LBP waste is defined as material such as wood, brick, metal, etc. that is coated with LBP. LBP residue is defined as residue that is generated from the removal (scraped, chipped, sandblasted, chemical means, etc.) of LBP from a structure. The regulations allow LBP waste from residential and commercial structures to be disposed of in Class 2 (construction and demolition debris) and Class 3 (municipal solid waste or industrial) landfills in South Carolina. The management of LBP residue is based on the source and lead concentration characterized by Toxic Characteristic Leaching Procedures (TCLP) to determine if the waste is classified as hazardous or non-hazardous. LBP residues that have TCLP sample results less than 5 milligrams per liter (mg/L) lead may be disposed of in a Class 3 landfill and is considered to be non-hazardous. LBP residues that have TCLP sample results equal to or greater than 5 mg/L lead should be disposed of in a Subtitle C landfill and is considered to be hazardous. However, the landfills should be contacted to determine their specific disposal requirements.

Occupational Safety and Health Administration Lead Regulations apply to actions initiated on lead containing materials. This regulation applies to lead concentrations greater than the analytical limit of detection. This regulation sets exposure levels on airborne lead and does not reference the percent lead in paint. Therefore, initial personal air monitoring should be conducted on workers performing work on surfaces which have a lead concentration of 0.1 mg/cm² or above to satisfy the OSHA requirements. If a baseline exposure lower than the OSHA Action Level of 30 micrograms per cubic meter (µg/m³) is established, personal air monitoring may be terminated. The full OSHA lead standard should be referenced for compliance.

A copy of this report must be submitted to SCDHEC at least ten (10) working days prior to demolition when applying for a demolition permit.

SECTION II

Asbestos & LBP Data Tables

**ASBESTOS SURVEY FIELD DATA SHEET
PLM & TEM ANALYSIS**

Project Name: COS 571 Bee Street ACM-LBP

Sampled By: T. Oliver & S. Hamby

Project Location: 571 Bee Street, Spartanburg, South Carolina 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 9/15/2021

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	Roof - Throughout	1 layer of shingles, 1 layer of felt	PLM - NAD	Non-Friable	Good	1,320 SF
2			TEM - NAD			
3						
4	Underneath siding	White transite with felt	PLM - 10% chry (transite), NAD - felt	Non-Friable	Good	1,700 SF
5			TEM - NAD (Felt)			
6						
7	Wood windows	White caulk	PLM - NAD	Non-Friable	Damaged	8 EA
8			TEM - NAD			
9						
10	Wood windows	White glaze	PLM - NAD	Non-Friable	Good	8 EA
11			TEM - NAD			
12						
13	Ceiling Throughout	Ceiling Texture	PLM - NAD	Friable	Significantly damaged	665 SF
14						
15						
16	Walls and ceilings	Drywall, joint compound and tape	PLM - 3% chrysotile	Friable	Good	2,800 SF
17						
18						
19						
20	Scattered throughout	Second layer of unfinished drywall	PLM - NAD	Friable	Good	1,500 SF
21						
22						
23						

**ASBESTOS SURVEY FIELD DATA SHEET
PLM & TEM ANALYSIS**

Project Name: COS 571 Bee Street ACM-LBP

Sampled By: T. Oliver & S. Hamby

Project Location: 571 Bee Street, Spartanburg, South Carolina 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 9/15/2021

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
24	Front right room and middle left room	Tan ripple pattern roll vinyl floor & mastic	PLM - NAD	Non-Friable	Good	350 SF
25			TEM - NAD			
26						
27	Kitchen	Black and white square roll vinyl floor & mastic	PLM - NAD	Non-Friable	Good	150 SF
28			TEM - NAD			
29						
30	Kitchen	12"x12" self stick black and white floor tiles	PLM - NAD	Non-Friable	Good	150 SF
31			TEM - NAD			
32						
33	Kitchen under black and white flooring	Tan octagon and diamond roll vinyl floor & mastic	PLM - NAD	Non-Friable	Good	170 SF
34			TEM - NAD			
35						
36	Hallway and threshold between kitchen and front room	Tan square roll vinyl floor with no adhesive	PLM - NAD	Non-Friable	Good	32 SF
37			TEM - NAD			
38						
39	Bathroom	Plain square tan roll vinyl floor with no adhesive	PLM - NAD	Non-Friable	Good	25 SF
40			TEM - NAD			
41						
42	Back left room under top wood floor	Felt paper	PLM - NAD	Non-Friable	Good	155 SF
43			TEM - NAD			
44						

**ASBESTOS SURVEY FIELD DATA SHEET
PLM & TEM ANALYSIS**

Project Name: COS 571 Bee Street ACM-LBP

Sampled By: T. Oliver & S. Hamby

Project Location: 571 Bee Street, Spartanburg, South Carolina 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 9/15/2021

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
45	Back left room closet	Brown pebble roll vinyl floor & mastic	PLM - NAD	Non-Friable	Good	30 SF
46			TEM - NAD			
47						
48	Hallway under think layer of wood	Brown tile with mastic & black felt	PLM - NAD	Non-Friable	Good	20 SF
49			TEM - NAD			
50						
Assumed	1 Chimney	Tar on Chimney	Assumed	Non-Friable	Good	6 LF

NAD = No Asbestos Detected

LF = Linear Feet

EA = Each

Bold = Positive For Asbestos

SF = Square Feet

Chry = Chrysotile

**FIELD DATA SHEET
XRF LBP ANALYSIS**

Project Name: COS 571 Bee Street ACM-LBP

Sampled By: Stephanie Hamby

Project Location: 571 Bee Street, Spartanburg, SC 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 9/29/2021

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)	
1		Standardization			185.00/Pass	
2		Calibration			1.16	
3		Calibration			1.09	
4		Calibration			1.09	
5	Exterior	Front Porch Trim	White	Wood	0.14	
6		Front Porch Floor	Blue	Wood	0.00	
7		Foundation Steps	White	CMU block	0.75	
8		Front Porch Column	Black	Wood	0.00	
9		Front Porch Column	White	Wood	0.00	
10		Front Porch Header	White	Wood	0.00	
11		Front Porch Ceiling	White	Wood	0.00	
12		Front Porch Handrail	White	Wood	0.00	
13		Siding	White	Wood	0.00	
14		Front Porch Door Frame	Black	Metal	0.00	
15		Front Porch Door Jamb	White	Wood	0.00	
16		Front Porch Door	White	Wood	0.00	
17		Interior	Wall	Gray	Drywall	0.00
18			Door - Small	Gray	Wood	0.00
19	Door - Big		Gray	Wood	0.00	
20	Ceiling		Gray	Drywall	0.00	
21	Door		Silver	Wood	0.00	
22	Window Molding		Gold	Wood	0.00	
23	Window Trim		White	Wood	0.08	
24	Wall		White	Drywall	0.00	
25	Door		White	Wood	0.00	
26	Door		White	Wood	0.00	

**FIELD DATA SHEET
XRF LBP ANALYSIS**

Project Name: COS 571 Bee Street ACM-LBP

Sampled By: Stephanie Hamby

Project Location: 571 Bee Street, Spartanburg, SC 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 9/29/2021

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)
27	Interior	Wall	Cream	Drywall	0.00
28		Wall	Peach	Drywall	0.06
29		Wall	Black	Wood	0.53
30		Window Casing	Brown	Wood	0.00
31		Window	Brown	Wood	0.00
32		Fireplace Mantle	White	Brick	Insufficient
33		Fireplace Mantle	White	Brick	0.00

Bold = LBP

FFM = Factory Finished Metal

FFV = Factory Finished Vinyl

SECTION III

Laboratory Analytical Results & Chain of Custody



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: 412109005

Customer ID: AXEM25

Customer PO:

Project ID:

Attention: Stephanie Hamby
Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

Phone: (864) 918-1433

Fax:

Received Date: 09/24/2021 9:50 AM

Analysis Date: 09/30/2021

Collected Date:

Project: 0521-99 571 Bee St.

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1-Shingle <small>412109005-0001</small>	Roof - 1 Shingle, 1 Felt	Brown/Gray/Black Fibrous Heterogeneous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
1-Felt <small>412109005-0001A</small>	Roof - 1 Shingle, 1 Felt	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
2-Shingle <small>412109005-0002</small>	Roof - 1 Shingle, 1 Felt	Black Fibrous Heterogeneous	4% Glass	96% Non-fibrous (Other)	None Detected
2-Felt <small>412109005-0002A</small>	Roof - 1 Shingle, 1 Felt	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
4-Transite <small>412109005-0003</small>	Underneath Wood Siding - White Transite w/ Felt	Gray/White Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
4-Felt <small>412109005-0003A</small>	Underneath Wood Siding - White Transite w/ Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
5-Transite <small>412109005-0004</small>	Underneath Wood Siding - White Transite w/ Felt				Positive Stop (Not Analyzed)
5-Felt <small>412109005-0004A</small>	Underneath Wood Siding - White Transite w/ Felt	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
6-Transite <small>412109005-0005</small>	Underneath Wood Siding - White Transite w/ Felt				Positive Stop (Not Analyzed)
7 <small>412109005-0006</small>	Wood Windows - White Caulk	Tan/White Non-Fibrous Homogeneous	2% Cellulose	10% Ca Carbonate 88% Non-fibrous (Other)	None Detected
8 <small>412109005-0007</small>	Wood Windows - White Caulk	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
10 <small>412109005-0008</small>	Wood Windows - White Glaze	Tan/Beige Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
11 <small>412109005-0009</small>	Wood Windows - White Glaze	Brown/Tan/Beige Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
13 <small>412109005-0010</small>	Ceilings Throughout - Ceiling Texture	Gray/White/Beige Non-Fibrous Homogeneous	<1% Cellulose	30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
14 <small>412109005-0011</small>	Ceilings Throughout - Ceiling Texture	Gray/White/Beige Non-Fibrous Homogeneous	<1% Cellulose	30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
15 <small>412109005-0012</small>	Ceilings Throughout - Ceiling Texture	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected

Initial report from: 10/01/2021 09:13:19



EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

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<http://www.EMSL.com> / charlottelab@emsl.com

EMSL Order: 412109005
Customer ID: AXEM25
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
16-Drywall <small>412109005-0013</small>	Walls & Ceiling - Drywall, J.C.	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
16-Joint Compound <small>412109005-0013A</small>	Walls & Ceiling - Drywall, J.C.	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
16-Tape <small>412109005-0013B</small>	Walls & Ceiling - Drywall, J.C.	Tan Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
17-Drywall <small>412109005-0014</small>	Walls & Ceiling - Drywall, J.C.	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
17-Beige Joint Compound <small>412109005-0014A</small>	Walls & Ceiling - Drywall, J.C.	Beige Non-Fibrous Homogeneous	1% Cellulose	20% Ca Carbonate 76% Non-fibrous (Other)	3% Chrysotile
17-Tape <small>412109005-0014B</small>	Walls & Ceiling - Drywall, J.C.	Tan Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
17-White Joint Compound <small>412109005-0014C</small>	Walls & Ceiling - Drywall, J.C.	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
18-Drywall <small>412109005-0015</small>	Walls & Ceiling - Drywall, J.C.	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
18-Joint Compound <small>412109005-0015A</small>	Walls & Ceiling - Drywall, J.C.	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
18-Tape <small>412109005-0015B</small>	Walls & Ceiling - Drywall, J.C.	Tan Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
19-Drywall <small>412109005-0016</small>	Walls & Ceiling - Drywall, J.C.	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
19-Joint Compound <small>412109005-0016A</small>	Walls & Ceiling - Drywall, J.C.	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
19-Tape <small>412109005-0016B</small>	Walls & Ceiling - Drywall, J.C.	Tan Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
20-Drywall <small>412109005-0017</small>	Walls & Ceiling - Drywall, J.C.	Brown/Gray Fibrous Heterogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
20-Joint Compound <small>412109005-0017A</small>	Walls & Ceiling - Drywall, J.C.	White Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
20-Tape <small>412109005-0017B</small>	Walls & Ceiling - Drywall, J.C.	Beige Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
21 <small>412109005-0018</small>	Scattered Throughout - 2nd Layer of Unfinished Drywall	Brown/Gray Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
22 <small>412109005-0019</small>	Scattered Throughout - 2nd Layer of Unfinished Drywall	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected

Initial report from: 10/01/2021 09:13:19



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: 412109005
Customer ID: AXEM25
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
23 412109005-0020	Scattered Throughout - 2nd Layer of Unfinished Drywall	Brown/White Fibrous Homogeneous	6% Cellulose	94% Non-fibrous (Other)	None Detected
24-Flooring 412109005-0021	Front Right Room and Middle Left Room - Tan Ripple Pattern Roll Vinyl Flooring	Gray/Tan/Beige Fibrous Heterogeneous	30% Cellulose 1% Glass	69% Non-fibrous (Other)	None Detected
24-Mastic 412109005-0021A	Front Right Room and Middle Left Room - Tan Ripple Pattern Roll Vinyl Flooring	Yellow/Gold Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
25-Flooring 412109005-0022	Front Right Room and Middle Left Room - Tan Ripple Pattern Roll Vinyl Flooring	Tan/Beige Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
25-Mastic 412109005-0022A	Front Right Room and Middle Left Room - Tan Ripple Pattern Roll Vinyl Flooring	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
27-Flooring 412109005-0023	Kitchen - Black & White Square Roll Vinyl Flooring	Gray/White/Black Fibrous Heterogeneous	30% Cellulose 1% Glass	69% Non-fibrous (Other)	None Detected
27-Mastic 412109005-0023A	Kitchen - Black & White Square Roll Vinyl Flooring	Yellow Non-Fibrous Homogeneous	3% Cellulose <1% Synthetic	97% Non-fibrous (Other)	None Detected
28-Flooring 412109005-0024	Kitchen - Black & White Square Roll Vinyl Flooring	Tan/Black/Beige Fibrous Heterogeneous	30% Cellulose 3% Synthetic	67% Non-fibrous (Other)	None Detected
28-Mastic 412109005-0024A	Kitchen - Black & White Square Roll Vinyl Flooring	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
30-Beige Self-Stick Tile 412109005-0025	Kitchen - 12x12 Black & White Self Stick Tile	Tan/Beige Non-Fibrous Homogeneous		25% Quartz 75% Non-fibrous (Other)	None Detected
30-Black Self-Stick Tile 412109005-0025A	Kitchen - 12x12 Black & White Self Stick Tile	Gray/Black Non-Fibrous Homogeneous		25% Quartz 75% Non-fibrous (Other)	None Detected
31-Beige Self-Stick Tile 412109005-0026	Kitchen - 12x12 Black & White Self Stick Tile	Beige Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
31-Black Self-Stick Tile 412109005-0026A	Kitchen - 12x12 Black & White Self Stick Tile	Gray/Black Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
33-Flooring 412109005-0027	Kitchen - Under B & W Flooring & 2nd Layer in Hallway - Tan Octagon & Diamond Roll Vinyl Flooring	Gray/Tan/Beige Fibrous Heterogeneous	30% Cellulose 1% Glass	69% Non-fibrous (Other)	None Detected
33-Mastic 412109005-0027A	Kitchen - Under B & W Flooring & 2nd Layer in Hallway - Tan Octagon & Diamond Roll Vinyl Flooring	Yellow Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
34-Flooring 412109005-0028	Kitchen - Under B & W Flooring & 2nd Layer in Hallway - Tan Octagon & Diamond Roll Vinyl Flooring	Tan Fibrous Heterogeneous	30% Cellulose 1% Glass	69% Non-fibrous (Other)	None Detected

Initial report from: 10/01/2021 09:13:19



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: 412109005
Customer ID: AXEM25
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
34-Mastic 412109005-0028A	Kitchen - Under B & W Flooring & 2nd Layer in Hallway - Tan Octagon & Diamond Roll Vinyl Flooring	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
36 412109005-0029	Hallway & Threshold between Kitchen & Front Right Room - Tan Square Pattern Roll Vinyl Flooring	Gray/Tan/Beige Fibrous Heterogeneous	30% Cellulose <1% Glass	70% Non-fibrous (Other)	None Detected
37 412109005-0030	Hallway & Threshold between Kitchen & Front Right Room - Tan Square Pattern Roll Vinyl Flooring	Brown/Gray/Tan Fibrous Heterogeneous	12% Cellulose 1% Glass	87% Non-fibrous (Other)	None Detected
39 412109005-0031	Bathroom - Plain Square Tan Roll Vinyl Flooring	Gray/Tan/Beige Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
40 412109005-0032	Bathroom - Plain Square Tan Roll Vinyl Flooring	Tan Non-Fibrous Heterogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
42 412109005-0033	Back Left Room under Top Wood Flooring - Felt Paper	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
43 412109005-0034	Back Left Room under Top Wood Flooring - Felt Paper	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
45 412109005-0035	Back Left Room Closet - Brown Pebble Pattern Roll Vinyl Flooring	Brown/Tan Fibrous Heterogeneous	30% Cellulose 1% Glass	69% Non-fibrous (Other)	None Detected
46 412109005-0036	Back Left Room Closet - Brown Pebble Pattern Roll Vinyl Flooring	Brown/Tan Fibrous Heterogeneous	30% Cellulose 1% Glass	69% Non-fibrous (Other)	None Detected
48-Flooring 412109005-0037	Hallway under Thin Layer of Wood - Brown Tile w/ Black Felt	Tan/Black Fibrous Heterogeneous	30% Cellulose 1% Synthetic <1% Hair	69% Non-fibrous (Other)	None Detected
48-Mastic 412109005-0037A	Hallway under Thin Layer of Wood - Brown Tile w/ Black Felt	Brown Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
49-Flooring 412109005-0038	Hallway under Thin Layer of Wood - Brown Tile w/ Black Felt	Brown/Tan Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
49-Mastic 412109005-0038A	Hallway under Thin Layer of Wood - Brown Tile w/ Black Felt	Brown Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected

Initial report from: 10/01/2021 09:13:19



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<http://www.EMSL.com> / charlottelab@emsl.com

EMSL Order: 412109005

Customer ID: AXEM25

Customer PO:

Project ID:

Analyst(s)

Ryan Rains (24)

Scott Combs (37)

Lee Plumley, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, Virginia 3333-000228, West Virginia LT000321

Initial report from: 10/01/2021 09:13:19



EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

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<http://www.EMSL.com> / charlottelab@emsl.com

EMSL Order: 412109005

Customer ID: AXEM25

Customer PO:

Project ID:

Attention: Stephanie Hamby
Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

Phone: (864) 918-1433

Fax:

Received Date: 09/24/2021 9:50 AM

Analysis Date: 10/05/2021

Collected Date:

Project: 0521-99 571 Bee St.

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
3-Shingle 412109005-0039	Roof	Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
3-Felt 412109005-0040	Roof	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
6-Felt 412109005-0041	Underneath Wood Siding	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
9 412109005-0042	Wood Windows	Brown/White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
12 412109005-0043	Wood Windows	Brown/Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
26-Flooring 412109005-0044	Front Right Room and Middle Left Room	Gray/Tan/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
26-Mastic 412109005-0045	Front Right Room and Middle Left Room	Yellow/Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
29-Flooring 412109005-0046	Kitchen	Gray/Black/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
29-Mastic 412109005-0047	Kitchen	Yellow/Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
32-Beige Self-Stick Tile 412109005-0048	Kitchen	Tan/Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
32-Black Self-Stick Tile 412109005-0049	Kitchen	Gray/Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
35-Flooring 412109005-0050	Kitchen - Under B & W Flooring & 2nd Layer in Hallway	Gray/Yellow/Gold Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 10/06/2021 08:52:19



EMSL Analytical, Inc.

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<http://www.EMSL.com> / charlottelab@emsl.com

EMSL Order: 412109005
Customer ID: AXEM25
Customer PO:
Project ID:

Attention: Stephanie Hamby Apex Environmental Management 7 Winchester Court Mauldin, SC 29662	Phone: (864) 918-1433 Fax: Received Date: 09/24/2021 9:50 AM Analysis Date: 10/05/2021 Collected Date:
Project: 0521-99 571 Bee St.	

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
35-Mastic 412109005-0051	Kitchen - Under B & W Flooring & 2nd Layer in Hallway	Yellow/Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
38 412109005-0052	Hallway & Threshold between Kitchen & Front Right Room	Gray/Tan/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
41 412109005-0053	Bathroom	Brown/Tan/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
44 412109005-0054	Back Left Room under Top Wood Flooring	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
47 412109005-0055	Back Left Room Closet	Brown/Tan/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
50-Flooring 412109005-0056	Hallway under Thin Layer of Wood	Brown/Tan/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
50-Mastic 412109005-0057	Hallway under Thin Layer of Wood	Brown Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Stephen Bennett (19)

Lee Plumley, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 10/06/2021 08:52:19



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Materials - Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
10801 Southern Loop Blvd

412109005

Pineville, NC 28134
PHONE: (704) 525-2205
EMAIL: charlottelab@EMSL.com

Customer Information	Customer ID:	Billing ID:
	Company Name: Apex Environmental Management	Company Name: Apex Environmental Management
	Contact Name: Stephanie Hamby	Billing Contact: Stephanie Hamby
	Street Address: 7 Winchester Court	Street Address: 7 Winchester Court
	City, State, Zip: Mauldin SC 29662 Country: US	City, State, Zip: Mauldin SC Country: US
	Phone: 864-918-1433	Phone: 864-918-1433
Email(s) for Report: shamby@apex-ehs.com	Email(s) for Invoice:	

Project Information

Project Name/No: 0521-99 571 Bee St Purchase Order:

EMSL LIMS Project ID. (if applicable, EMSL will provide) US State where samples collected: SC State of Connecticut (CT) must select project location:
 Commercial (Taxable) Residential (Non-Taxable)

Sampled By Name: S. Hamby Sampled By Signature: [Signature] Date Sampled: 9-15-21 No. of Samples in Shipment: 50

Turn-Around-Time (TAT)

3 Hour 6 Hour 24 Hour 32 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11.30am.

Test Selection

PLM - Bulk (reporting limit)

PLM EPA 600/R-93/116 (<1%)
 PLM EPA NOB (<1%)
 POINT COUNT
 400 (<0.25%) 1,000 (<0.1%)
 POINT COUNT w/ GRAVIMETRIC
 400 (<0.25%) 1,000 (<0.1%)
 NIOSH 9002 (<1%)
 NYS 198.1 (Friable - NY)
 NYS 198.6 NOB (Non-Friable - NY)
 NYS 198.8 (Vermiculite SM-V)

TEM - Bulk

TEM EPA NOB
 NYS NOB 198.4 (Non-Friable - NY)
 TEM EPA 600/R-93/116 w Milling Prep (0.1%)

Other Tests (please specify)

Positive Stop - Clearly Identified Homogeneous Areas (HA)

Sample Number	HA Number	Sample Location	Material Description
1		Roof	1 Shingle, 1 felt
2			
3			
4		Underneath wood	White transit w/
5		siding	felt
6			
7		wood windows	white caulk
8			
9			

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Method of Shipment: FedEx Sample Condition Upon Receipt:

Relinquished by: S. Hamby Date/Time: 9/16/21 10 AM Received by: [Signature] Date/Time: 9/24/21 9:50 AM

Relinquished by: Date/Time: Received by: F/x 2837 5140 4535 Date/Time:

Controlled Document - Asbestos Bulk R7 9/14/2021

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

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Asbestos Bulk Building Materials - Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
10801 Southern Loop Blvd

EMSL ANALYTICAL INC.
LABORATORY-PRODUCTS-TRAINING

9005

Pineville, NC 28134
PHONE: (704) 525-2205
EMAIL: charlottelab@EMSL.com

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	HA Number	Sample Location	Material Description
10		Wood Windows	White glaze
11		⊥	⊥
12		⊥	⊥
13		Ceilings Throughout	Ceiling Texture
14		⊥	⊥
15		⊥	⊥
16		Walls & ceiling	Drywall, J.C
17		⊥	⊥
18		⊥	⊥
19		⊥	⊥
20		⊥	⊥
21		Scattered Throughout	2nd layer of
22		⊥	unfinished drywall
23		⊥	⊥
24		Front right room and	Tan ripple pattern
25		middle left room	roll vinyl flooring
26		⊥	⊥
27		Kitchen	Black & white
28		⊥	square roll vinyl
29		⊥	flooring
30		Kitchen	12x12 Black & white
31		⊥	self stick tile
32		⊥	⊥

Method of Shipment: Fed Ex		Sample Condition Upon Receipt:	
Relinquished by: A. King	Date/Time: 9-16-21 12AM	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - Asbestos Bulk R7 09/14/2021

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EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Bulk Building Materials - Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
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Pineville, NC 28134
PHONE: (704) 525-2205
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9005

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	HA Number	Sample Location	Material Description
33		Kitchen - under B&W	Tan Octagon &
34		Flooring 1st 2nd layer in hallway	diamond roll vinyl
35		↓	flooring
36		Hallway & threshold btwn	Tan square pattern
37		kitchen & front right room	roll vinyl flooring
38		↓	↓
39		Bath room	Plain square
40		↓	tan roll vinyl
41		↓	flooring
42		Back left room under	Felt paper
43		top wood flooring ↓	↓
44			
45		Back left room closet	Brown pebble
46		↓	pattern roll vinyl
47		↓	flooring
48		Hallway under thin	Brown tile
49		layer of wood ↓	w/ black felt
50		↓	↓

Method of Shipment: <u>Fed Ex</u>		Sample Condition Upon Receipt:	
Relinquished by: <u>Miller</u>	Date/Time: <u>9/16/21 10A</u>	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - Asbestos Bulk R7 08/14/2021

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SECTION IV
Photographic Log



Photo 1 – 571 Bee Street in Spartanburg, South Carolina 29301



Photo 2 – One layer of shingle and felt



Photo 3 – Chimney tar assumed asbestos containing material.



Photo 4 – White transite siding asbestos containing material.



Photo 5 – Glazing found on wood windows



Photo 6 – Glazing found on wood windows



Photo 7 – Ceiling texture throughout.



Photo 8 – Beige drywall mud located on ceilings and walls is asbestos containing material.



Photo 9 – Second layer of unfinished drywall scattered throughout.



Photo 10 – Tan ripple pattern roll vinyl floor & mastic located in the front right and middle left room.



Photo 11 – Black and white roll vinyl floor & mastic located in the kitchen



Photo 12 – Back and white 12"x12" self-stick floor tiles located in the kitchen



Photo 13 – Tan octagon and diamond roll vinyl floor & mastic located in the kitchen and hallway (2nd layer).



Photo 14 – Large tan square roll vinyl floor & mastic located in the hallway (top layer) and kitchen threshold.



Photo 15 – Plain tan square roll vinyl floor with no adhesive located in the bathroom.



Photo 16 – Black felt paper under top layer of wood floor located in back left room.



Photo 17 – Brown pebble roll vinyl floor & mastic in the back left room closet.



Photo 18 – Brown tile with mastic & black felt under thin layer of wood in hallway.

SECTION V

SC DHEC Asbestos Inspector License

SCDHEC ISSUED
Asbestos ID Card

STEPHANIE HAMBY



AIRSAMPLER
CONSULTBI

AS-000632
BI-01894

Expiration Date:
08/05/22
01/12/22