



## **Asbestos & Lead Based Paint Assessment**

City of Spartanburg  
690 Saxon Avenue  
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: 0120-17

February 10, 2020





**Apex Project Number 0120-17**

February 10, 2020

7 Winchester Court  
Mauldin, SC 29662  
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[www.apex-ehs.com](http://www.apex-ehs.com)

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

Reference: Asbestos and Lead-Based Paint Assessment Services  
690 Saxon Avenue  
Spartanburg, South Carolina 29301

**SERVICES**

- Indoor Air Quality
- Mold Remediation
- Asbestos & Lead
- Industrial Hygiene
- Worker Health & Safety
- Mold Consulting
- Moisture Management Plans
- Safety Assessment
- Environmental Site Assessments
- Hazard Communication

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.**

A handwritten signature in blue ink, appearing to read 'S. Hamby'.

Stephanie Hamby  
Field Scientist

A handwritten signature in blue ink, appearing to read 'Tom Oliver'.

Tom Oliver  
Vice President

Appendices

**ASBESTOS AND LEAD BASED PAINT ASSESSMENT**

**CITY OF SPARTANBURG  
690 SAXON AVENUE  
SPARTANBURG, SOUTH CAROLINA 29301**

**APEX PROJECT NO. 0120-17**

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**SECTION I**

**Asbestos & Lead Evaluation Report**

**ASBESTOS EVALUATION REPORT  
APEX PROJECT NUMBER: 0120-17**

Date:	2/10/2020	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:	690 Saxon Avenue Spartanburg, SC 29301		
Assessor:	Ted Shultz	Date of Assessment:	1/20/2020
Company:	Apex Environmental Management 7 Winchester Court Mauldin, SC 29662	Phone Number:	(864) 404-3210
Purpose of Assessment:	Demolition	Age of Structure:	Approximately 50+ years
Building Type:	Residential	Number of Stories:	1
Foundation:	Brick crawlspace	Approximate Square Footage	850 SF

**EXTERIOR BUILDING MATERIALS**

- Shingled roof.
- Chimney tar– sampled.
- Roof tar on roof valley and roof vent.
- Transite siding with felt over partial drywall.
- Window glaze.
- Wood windows.
- Wood doors.

**INTERIOR BUILDING MATERIALS**

- Plaster walls and ceiling.
- Wood floors.
- Multiple types & layers of vinyl floors with & without mastics.
- Flooring under wood located in the kitchen.

## **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. Forty (40) 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-seven (67) samples were analyzed due to layering by PLM method 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). Twenty-three (23) 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. It should be noted that materials were identified to contain less than 1% asbestos and OSHA Construction Industry Asbestos Standards (29 CFR 1926.1101) will apply if those materials are disturbed during demolition activities.

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.

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

- Approximately 2,400 SF of exterior transite siding.

### 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.

Several surfaces in the building tested positive for lead in excess of the regulatory definition:

#### Exterior:

- Brown wood window frame.
- Brown wood door frame.
- Brown wood porch header.

#### Interior:

- No lead based paint found in tested areas.

## **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

Currently the Environmental Protection Agency (EPA) define LBP as paint containing greater than 1.0 milligrams per square centimeter ( $\text{mg}/\text{cm}^2$ ) lead or in excess of, or equal to, 0.5 percent lead. Building materials identified as being painted with LBP should be segregated from the other building materials and recycled or disposed of in a municipal lined landfill. The removed wastes would need to be containerized and further tested by Toxic Characteristic Leaching procedures (TCLP) to determine if the waste is classified as hazardous. The remaining building materials that are not painted with LBP may be disposed of in a construction and demolition landfill. 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  $0.1 \text{ mg}/\text{cm}^2$  or above to satisfy the OSHA requirements. If a baseline exposure lower than the OSHA Action Level of 30 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) 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 690 Saxon Avenue NIP ACM-LBP

Sampled By: Ted Shultz

Project Location: 690 Saxon Avenue, Spartanburg, SC 29301

Project Manager: Ted Shultz

Project Number: 0120-17

Date: 1/20/2020

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	Roof	Roofing (1 shingle, 1 felt)	PLM - NAD	Non-friable	Good	1,000 SF
2			TEM - NAD (shingle); 0.14% chrysotile (felt)			
3						
4	Roof	Roof valley & roof vent tar	PLM - NAD	Non-friable	Good	12 LF
5			TEM - NAD			
6						
7	Ext. siding	Transite with felt	<b>PLM - 15% Chrysotile (transite),</b> PLM - NAD (felt)	Friable	Good	2,400 SF
8			TEM - NAD (felt)			
9						
10	Ext. siding	Drywall with black layer paper (under transite and felt)	PLM - NAD	Friable	Damaged	600 SF
11						
12						
13						
14						
15	Windows	Glazing	PLM - <1% Chrysotile	Friable	Good	12 EA
16			TEM - NAD			
17						
18	Windows	Black and white caulk	PLM - NAD	Non-friable	Good	12 EA
19			TEM - NAD			
20						
21	Kitchen	6 layers flooring 3 or 4 layers under wood with & without mastics	PLM - NAD	Non-friable	Good	120 SF
22			TEM - NAD			
23						

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

Project Name: COS 690 Saxon Avenue NIP ACM-LBP

Sampled By: Ted Shultz

Project Location: 690 Saxon Avenue, Spartanburg, SC 29301

Project Manager: Ted Shultz

Project Number: 0120-17

Date: 1/20/2020

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
24	Dining Room	Brown marble pattern roll over self-stick grey floor tile	PLM - NAD	Non-friable	Good	120 SF
25			TEM - NAD			
26			TEM - NAD			
27	Bathroom	Tan square pattern roll vinyl, no mastic	PLM - NAD	Non-Friable	Good	60 SF
28			TEM - NAD			
29			TEM - NAD			
30	Bathroom	Tub surround mastic	TEM - NAD	Non-Friable	Good	100 SF
31			TEM - NAD			
32			TEM - NAD			
33	Ceiling & walls	Plaster with finish	PLM - NAD	Friable	Good	2,400 SF
34						
35						
36						
37						
38	Chimney	Flashing tar	PLM - NAD	Non-friable	Good	12 LF
39			TEM - NAD			
40			TEM - NAD			

NAD = No Asbestos Detected

LF = Linear Feet

EA = Each

**Bold = Positive For Asbestos**

SF = Square Feet

Chry = Chrysotile

**FIELD DATA SHEET  
LBP ANALYSIS**

Project Name: COS 690 Saxon Avenue NIP ACM-LBP

Sampled By: Tom Oliver

Project Location: 690 Saxon Avenue, Spartanburg, SC 29301

Project Manager: Tom Oliver

Project Number: 0120-17

Date: 1/30/2020

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m <sup>3</sup> )
157	Exterior	Porch Rail	Brown	Wood	0.00
<b>158</b>	<b>Exterior</b>	<b>Window Frame</b>	<b>Brown</b>	<b>Wood</b>	<b>1.49</b>
159	Exterior	Transite	Tan	Transite	0.00
160	Exterior	Door	Brown	Wood	0.00
<b>161</b>	<b>Exterior</b>	<b>Door Frame</b>	<b>Brown</b>	<b>Wood</b>	<b>2.70</b>
<b>162</b>	<b>Exterior</b>	<b>Porch Header</b>	<b>Brown</b>	<b>Wood</b>	<b>2.70</b>
163	Exterior	Porch Column	Brown	Wood	0.00
164	Interior	Wall	Blue	Plaster	0.00
165	Interior	Window	Brown	Wood	0.04
166	Interior	Window Frame	Brown	Wood	0.09
167	Interior	Fireplace Mantle	White	Wood	0.30
168	Interior	Base Board	White	Wood	0.30
169	Interior	Wall	Green	Plaster	0.00
170	Interior	Door Frame	Pink	Wood	0.07
171	Interior	Door Casing	Pink	Wood	0.05
172	Interior	Cabinets	White	Wood	0.00
173	Interior	Door	White	Wood	0.07
174	Interior	Door Frame	White	Wood	0.00
175	Interior	Bedroom Wall	Pink	Plaster	0.00

**Bold = LBP**

### **SECTION III**

#### **Laboratory Analytical Results**



# 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](mailto:charlottelab@emsl.com)

EMSL Order: 412000771

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

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

**Phone:** (864) 640-5274

**Fax:**

**Received Date:** 01/23/2020 11:40 AM

**Analysis Date:** 01/29/2020

**Collected Date:** 01/20/2020

**Project:** COS 690 Saxon Ave. (City of Spartanburg)

## 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>412000771-0001</small>	Roof - 1 Shingle, 1 Felt	Black Fibrous Homogeneous	10% Glass	8% Quartz 5% Ca Carbonate 77% Non-fibrous (Other)	None Detected
1-Felt <small>412000771-0001A</small>	Roof - 1 Shingle, 1 Felt	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
2-Shingle <small>412000771-0002</small>	Roof - 1 Shingle, 1 Felt	Black Fibrous Homogeneous	5% Glass	5% Quartz 10% Ca Carbonate 80% Non-fibrous (Other)	None Detected
2-Felt <small>412000771-0002A</small>	Roof - 1 Shingle, 1 Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
4 <small>412000771-0003</small>	Roof - Roof Valley Tar	Black Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
5 <small>412000771-0004</small>	Roof - Roof Valley Tar	Black Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
7-Transite <small>412000771-0005</small>	Exterior Siding - Transite w/ Felt	Gray Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile
7-Felt <small>412000771-0005A</small>	Exterior Siding - Transite w/ Felt	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
8-Transite <small>412000771-0006</small>	Exterior Siding - Transite w/ Felt				Positive Stop (Not Analyzed)
8-Felt <small>412000771-0006A</small>	Exterior Siding - Transite w/ Felt	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
9-Transite <small>412000771-0007</small>	Exterior Siding - Transite w/ Felt				Positive Stop (Not Analyzed)
10-Drywall <small>412000771-0008</small>	Exterior Siding - Drywall w/ Black Layer Paper	Gray Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
10-Paper <small>412000771-0008A</small>	Exterior Siding - Drywall w/ Black Layer Paper	Brown/Black Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
11-Drywall <small>412000771-0009</small>	Exterior Siding - Drywall w/ Black Layer Paper	Gray Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
11-Paper <small>412000771-0009A</small>	Exterior Siding - Drywall w/ Black Layer Paper	Brown/Black Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
12-Drywall <small>412000771-0010</small>	Exterior Siding - Drywall w/ Black Layer Paper	Gray Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected

Initial report from: 01/30/2020 09:36:04



# 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](mailto:charlottelab@emsl.com)

**EMSL Order:** 412000771  
**Customer ID:** AXEM25  
**Customer PO:**  
**Project ID:** City of Spartanburg

## 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
12-Paper 412000771-0010A	Exterior Siding - Drywall w/ Black Layer Paper	Brown/Black Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
13-Drywall 412000771-0011	Exterior Siding - Drywall w/ Black Layer Paper	Gray Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
13-Paper 412000771-0011A	Exterior Siding - Drywall w/ Black Layer Paper	Brown/Black Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
14-Drywall 412000771-0012	Exterior Siding - Drywall w/ Black Layer Paper	Gray Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
14-Paper 412000771-0012A	Exterior Siding - Drywall w/ Black Layer Paper	Brown/Black Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
15 412000771-0013	Windows - Glazing	Brown/White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	<1% Chrysotile
16 412000771-0014	Windows - Glazing	Brown/White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	<1% Chrysotile
18-White Caulk 412000771-0015	Windows - Black Caulk & White	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
18-Black Caulk 412000771-0015A	Windows - Black Caulk & White	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
19-White Caulk 412000771-0016	Windows - Black Caulk & White	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
19-Black Caulk 412000771-0016A	Windows - Black Caulk & White	Black Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
21-Flooring 1 412000771-0017	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Tan Non-Fibrous Homogeneous	2% Glass	20% Ca Carbonate 78% Non-fibrous (Other)	None Detected
21-Flooring 2 412000771-0017A	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Tan Non-Fibrous Homogeneous	2% Glass	20% Ca Carbonate 78% Non-fibrous (Other)	None Detected
21-Flooring 3 412000771-0017B	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Brown/Tan Fibrous Homogeneous	15% Cellulose 2% Glass	83% Non-fibrous (Other)	None Detected
21-Mastic 412000771-0017C	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
21-Flooring 4 412000771-0017D	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Brown/Gray Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
21-Flooring 5 412000771-0017E	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Gray/Green Non-Fibrous Homogeneous	1% Cellulose	20% Ca Carbonate 79% Non-fibrous (Other)	None Detected

Initial report from: 01/30/2020 09:36:04



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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
21-Flooring 6 412000771-0017F	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Tan Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
21-Mastic 412000771-0017G	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Brown/Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
22-Flooring 1 412000771-0018	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Tan Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
22-Flooring 2 412000771-0018A	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Tan Non-Fibrous Homogeneous	2% Glass	15% Ca Carbonate 83% Non-fibrous (Other)	None Detected
22-Flooring 3 412000771-0018B	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Tan Non-Fibrous Homogeneous	20% Cellulose 4% Glass	10% Ca Carbonate 66% Non-fibrous (Other)	None Detected
22-Mastic 412000771-0018C	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Tan Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
22-Flooring 4 412000771-0018D	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Brown Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
22-Flooring 5 412000771-0018E	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Brown/Gray Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
22-Flooring 6 412000771-0018F	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Tan Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
22-Mastic 412000771-0018G	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Brown Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
24-Flooring 1 412000771-0019	Dining Room - Brown Marble Pat. Roll over Self-Stick Gray Floor Tile	Brown Fibrous Homogeneous	25% Cellulose 2% Glass	73% Non-fibrous (Other)	None Detected
24-Mastic 412000771-0019A	Dining Room - Brown Marble Pat. Roll over Self-Stick Gray Floor Tile	Tan Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
24-Flooring 2 412000771-0019B	Dining Room - Brown Marble Pat. Roll over Self-Stick Gray Floor Tile	Gray/Tan Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
24-Mastic 412000771-0019C	Dining Room - Brown Marble Pat. Roll over Self-Stick Gray Floor Tile	Tan/Clear Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected

Initial report from: 01/30/2020 09:36:04





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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
24-Floor Tile 412000771-0019D	Dining Room - Brown Marble Pat. Roll over Self-Stick Gray Floor Tile	Tan Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
25-Flooring 1 412000771-0020	Dining Room - Brown Marble Pat. Roll over Self-Stick Gray Floor Tile	Tan Fibrous Homogeneous	15% Cellulose 4% Glass	81% Non-fibrous (Other)	None Detected
25-Mastic 412000771-0020A	Dining Room - Brown Marble Pat. Roll over Self-Stick Gray Floor Tile	Tan Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
25-Flooring 2 412000771-0020B	Dining Room - Brown Marble Pat. Roll over Self-Stick Gray Floor Tile	Brown/Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
25-Mastic 412000771-0020C	Dining Room - Brown Marble Pat. Roll over Self-Stick Gray Floor Tile	Tan/White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
25-Floor Tile 412000771-0020D	Dining Room - Brown Marble Pat. Roll over Self-Stick Gray Floor Tile	Brown Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
27 412000771-0021	Bathroom - Tan Square Pat. Roll Vinyl, No Mastic	Brown Fibrous Homogeneous	25% Cellulose 2% Glass	73% Non-fibrous (Other)	None Detected
28 412000771-0022	Bathroom - Tan Square Pat. Roll Vinyl, No Mastic	Brown Fibrous Homogeneous	25% Cellulose 2% Glass	73% Non-fibrous (Other)	None Detected
30 412000771-0023	Bathroom - Tub Surround Mastic	Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
31 412000771-0024	Bathroom - Tub Surround Mastic	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
33-Skim Coat 412000771-0025	Ceiling & Walls - Plaster w/ Finish	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
33-Rough Coat 412000771-0025A	Ceiling & Walls - Plaster w/ Finish	Gray Non-Fibrous Homogeneous		40% Quartz 60% Non-fibrous (Other)	None Detected
34-Skim Coat 412000771-0026	Ceiling & Walls - Plaster w/ Finish	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
34-Rough Coat 412000771-0026A	Ceiling & Walls - Plaster w/ Finish	Gray Non-Fibrous Homogeneous		35% Quartz 65% Non-fibrous (Other)	None Detected
35-Skim Coat 412000771-0027	Ceiling & Walls - Plaster w/ Finish	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
35-Rough Coat 412000771-0027A	Ceiling & Walls - Plaster w/ Finish	Gray Non-Fibrous Homogeneous		30% Quartz 70% Non-fibrous (Other)	None Detected
36-Skim Coat 412000771-0028	Ceiling & Walls - Plaster w/ Finish	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected

Initial report from: 01/30/2020 09:36:04



# 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](mailto:charlottelab@emsl.com)

**EMSL Order:** 412000771  
**Customer ID:** AXEM25  
**Customer PO:**  
**Project ID:** City of Spartanburg

## 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
36-Rough Coat <small>412000771-0028A</small>	Ceiling & Walls - Plaster w/ Finish	Tan Non-Fibrous Homogeneous		25% Quartz 10% Ca Carbonate 65% Non-fibrous (Other)	None Detected
37-Skim Coat <small>412000771-0029</small>	Ceiling & Walls - Plaster w/ Finish	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
37-Rough Coat <small>412000771-0029A</small>	Ceiling & Walls - Plaster w/ Finish	Tan Non-Fibrous Homogeneous		30% Quartz 5% Ca Carbonate 65% Non-fibrous (Other)	None Detected
38 <small>412000771-0030</small>	Chimey - Flashing Tar	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
39 <small>412000771-0031</small>	Chimey - Flashing Tar	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s) \_\_\_\_\_

Anupriya Tyagi (36)  
Sarah Breneman (31)

Lee Plumley, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. 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. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 01/30/2020 09:36:04



# 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](mailto:charlottelab@emsl.com)

**EMSL Order:** 412000771

**Customer ID:** AXEM25

**Customer PO:**

**Project ID:** City of Spartanburg

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

**Phone:** (864) 640-5274

**Fax:**

**Received Date:** 01/23/2020 11:40 AM

**Analysis Date:** 02/03/2020

**Collected Date:** 01/20/2020

**Project:** COS 690 Saxon Ave. (City of Spartanburg)

## 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 412000771-0032	Roof - 1 Shingle, 1 Felt	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
3-Felt 412000771-0033	Roof - 1 Shingle, 1 Felt	Black Non-Fibrous Heterogeneous	99.86 Other	None	0.14% Chrysotile
6 412000771-0034	Roof - Roof Valley Tar	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
9-Felt 412000771-0035	Exterior Siding - Transite w/ Felt	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
17 412000771-0036	Windows - Glazing	Beige Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
20-White Caulk 412000771-0037	Windows - Black Caulk & White	White Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
20-Black Caulk 412000771-0038	Windows - Black Caulk & White	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
23-Flooring 1 412000771-0039	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
23-Flooring 2 412000771-0040	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
23-Flooring 3 412000771-0041	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Gray/Beige Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
23-Mastic 412000771-0042	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
23-Flooring 4 412000771-0043	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Brown/Gray Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 02/04/2020 08:06:04



# 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](mailto:charlottelab@emsl.com)

**EMSL Order:** 412000771

**Customer ID:** AXEM25

**Customer PO:**

**Project ID:** City of Spartanburg

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

**Phone:** (864) 640-5274

**Fax:**

**Received Date:** 01/23/2020 11:40 AM

**Analysis Date:** 02/03/2020

**Collected Date:** 01/20/2020

**Project:** COS 690 Saxon Ave. (City of Spartanburg)

## 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
23-Flooring 5 412000771-0044	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Gray Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
23-Flooring 6 412000771-0045	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
23-Mastic 412000771-0046	Kitchen - 6 Layers Flooring, 3 or 4 Layers under Wd, Some w/ Mastic	Brown Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
26-Flooring 1 412000771-0047	Dining Room - Brown Marble Pat. Roll over Self-Stick Gray Floor Tile	Beige Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
26-Mastic 412000771-0048	Dining Room - Brown Marble Pat. Roll over Self-Stick Gray Floor Tile	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
26-Flooring 2 412000771-0049	Dining Room - Brown Marble Pat. Roll over Self-Stick Gray Floor Tile	Gray/Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
26-Mastic 412000771-0050	Dining Room - Brown Marble Pat. Roll over Self-Stick Gray Floor Tile	Clear Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
26-Floor Tile 412000771-0051	Dining Room - Brown Marble Pat. Roll over Self-Stick Gray Floor Tile	Beige Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
29 412000771-0052	Bathroom - Tan Square Pat. Roll Vinyl, No Mastic	Beige Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
32 412000771-0053	Bathroom - Tub Surround Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
40 412000771-0054	Chimey - Flashing Tar	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 02/04/2020 08:06:04



# 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](mailto:charlottelab@emsl.com)

**EMSL Order:** 412000771

**Customer ID:** AXEM25

**Customer PO:**

**Project ID:** City of Spartanburg

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

**Phone:** (864) 640-5274

**Fax:**

**Received Date:** 01/23/2020 11:40 AM

**Analysis Date:** 02/03/2020

**Collected Date:** 01/20/2020

**Project:** COS 690 Saxon Ave. (City of Spartanburg)

## 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
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Analyst(s)

Derrick Young (23)

Lee Plumley, Laboratory Manager  
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 02/04/2020 08:06:04



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

### Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

412000771

Pineville, NC 28134  
PHONE: (704) 525-2205  
FAX: (704) 525-2382

Company : Apex Environmental Management		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 7 Winchester Court		<i>Third Party Billing requires written authorization from third party</i>	
City: Mauldin	State/Province: SC	Zip/Postal Code: 29662	Country: US
Report To (Name): Stephanie Hamby		Telephone #: 864-640-5274	
Email Address: shamby@apex-ehs.com		Fax #:	Purchase Order:
Project Name/Number: COS 690 Saxon Ave		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: SC		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> 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.

<p style="text-align: center;"><b>PLM - Bulk (reporting limit)</b></p> <p><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (&lt;1%)</p> <p><input type="checkbox"/> PLM EPA NOB (&lt;1%)</p> <p>Point Count <input type="checkbox"/> 400 (&lt;0.25%) <input type="checkbox"/> 1000 (&lt;0.1%)</p> <p>Point Count w/Gravimetric <input type="checkbox"/> 400 (&lt;0.25%) <input type="checkbox"/> 1000 (&lt;0.1%)</p> <p><input type="checkbox"/> NIOSH 9002 (&lt;1%)</p> <p><input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)</p> <p><input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)</p> <p><input type="checkbox"/> OSHA ID-191 Modified</p> <p><input type="checkbox"/> Standard Addition Method</p>	<p style="text-align: center;"><b>TEM – Bulk</b></p> <p><input checked="" type="checkbox"/> TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1</p> <p><input type="checkbox"/> NY ELAP Method 198.4 (TEM)</p> <p><input type="checkbox"/> Chatfield Protocol (semi-quantitative)</p> <p><input type="checkbox"/> TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2</p> <p><input type="checkbox"/> TEM Qualitative via Filtration Prep Technique</p> <p><input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique</p> <p style="text-align: center;"><b>Other</b></p> <p><input type="checkbox"/></p>
---	---

Check For Positive Stop – Clearly Identify Homogenous Group      Date Sampled: 1/20/2020

Samplers Name: Ted Shultz      Samplers Signature: \_\_\_\_\_

Sample #	HA #	Sample Location	Material Description
1		Roof	1 shingle, 1 felt
2		┆	┆
3		┆	┆
4		Roof	roof valley tar
5		┆	┆
6		┆	┆
7		Exterior Siding	Transite w/ felt
8		┆	┆
9		┆	┆
10		Exterior Siding	Drywall w/ black layer paper

Client Sample # (s): 1-40	Total # of Samples: 40
Relinquished (Client): <i>S. Hamby</i>	Date: 1-22-2020      Time: 2:36pm
Received (Lab): <i>Kyl NH</i>	Date: 1/23/20      Time: 11:40AM Fk
Comments/Special Instructions: <span style="float: right;">7958 1758 7918</span>	



EMSL ANALYTICAL, INC.  
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### Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

412000771

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 #	HA #	Sample Location	Material Description
11		exterior siding	drywall w/ black layer paper
12			
13			
14			
15		Windows	glazing
16			
17			
18		Windows	black caulk & white
19			
20			
21		Kitchen	6 layers flooring, 3 or 4
22			layers under wd, some w/
23			mastic
24		Dining Room	brown marble pat. roll over
25			self-stick gray floor tile
26			
27		Bath Room	Tan square pat. roll vinyl
28			no mastic
29			
30		Bath room	Tub surround mastic
31			
32			
33		Ceiling & Walls	plaster w/ finish
34			
*Comments/Special Instructions:			





**SECTION IV**  
**Photographic Log**



Photo 1 – 690 Saxon Avenue in Spartanburg, South Carolina.



Photo 2 – Roof valley tar.



Photo 3 – Roof vent tar same as roof valley.



Photo 4 – Chimney flashing tar.



Photo 5 – Transite siding over black felt over drywall with attached black paper.



Photo 6 – Exterior window glaze and caulk.



Photo 7 – Wood flooring.



Photo 8 – Kitchen flooring layers under wood sub-flooring.



Photo 9 – Dining room flooring layers.



Photo 10 – Bathroom flooring.



Photo 11 – Bathroom tub-surround mastic.

**SECTION V**

**SC DHEC Asbestos Inspector License**

# SCDHEC ISSUED

## Asbestos ID Card

**Tedman K Shultz**



<b>CONSULTBI</b>	<b>BI-00971</b>	<b>01/14/21</b>
<b>AIRSAMPLER</b>	<b>AS-00355</b>	<b>03/06/20</b>

Expiration Date:

#