



Asbestos & Lead Based Paint Assessment

City of Spartanburg
709 W.O. Ezell Boulevard
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

May 25, 2021





Apex Project Number 0521-99

May 25, 2021

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

Reference: Asbestos and Lead-Based Paint Assessment Services
709 W.O. Ezell Boulevard
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.

Tom Oliver
Vice President

Appendices

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

**CITY OF SPARTANBURG
709 W.O. EZELL BOULEVARD
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:	5/25/2021	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:	709 W.O. Ezell Boulevard Spartanburg, SC 29301		
Assessor:	Stephanie Hamby	Date of Assessment:	4/30/2021
Company:	Apex Environmental Management 7 Winchester Court Mauldin, SC 29662	Phone Number:	(864) 404-3210
Purpose of Assessment:	Demolition	Age of Structure:	Approximately 75 years
Building Type:	Commercial	Number of Stories:	1
Foundation:	Slab-on Grade	Approximate Square Footage:	7,500 SF

EXTERIOR BUILDING MATERIALS

- Flat wooden front roof with roll shingles, insulation & felt.
- Flashing with caulk & tar on the front roof.
- Back wooden roof is collapsed with a rubber membrane, felt paper & wooden sheathing with a felt layer.
- Brick & CMU block walls.
- Wooden windows with base, inner & outer layers of glazing.
- Metal windows with glazing & caulk.
- Metal doors with no caulk.
- Damage to the roof was identified.

INTERIOR BUILDING MATERIALS

- Drywall with joint compound walls in the front area in debris piles, walls & ceilings.
- Plaster with finish in the front area ceilings & perimeter walls.
- 12" x 12" wooden ceiling tiles.
- CMU block & wooden panel walls with mastic.
- Multiple types of wooden and ceramic floors with adhesives & leveling compound.
- Large storage racks, forklift, etc. In back warehouse.
- Large amounts of items, trash & debris exists.

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-four (54) 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-nine (69) 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). Fifteen (15) 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 roof was observed to have holes and evidence of water damage and vegetation growth was identified inside the building. 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 9 metal windows with glazing on the back warehouse portion of the building.
- Approximately 75 SF wall panel adhesive in the front area.

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.

One surface in the building tested positive for lead in excess of the regulatory definition:

- Exterior light gray CMU block walls.
- Interior gray wooden pattern ceramic floor tiles.
- Interior brown/red square pattern ceramic floor tiles.
- Interior brown rectangle pattern ceramic floor tiles.

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 (mg/cm²) 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 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 709 W.O. Ezell Boulevard ACM-LBP

Sampled By: Stephanie Hamby

Project Location: 709 W.O. Ezell Boulevard, Spartanburg, South Carolina 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 4/30/2021

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	Front flat roof	Roll roofing (2 layers) over brown insulation & felt paper (3 layers)	PLM - NAD	Non-Friable	Good	3,900 SF
2			TEM - NAD			
3						
4	Front flat roof	Flashing tar	PLM - NAD	Non-Friable	Good	275 SF
5			TEM - NAD			
6						
7	Front flat roof	Flashing caulk	PLM - NAD	Non-Friable	Good	275 LF
8			TEM - NAD			
9						
10	Back metal windows	Glazing	12% chrysotile	Non-Friable	Good	9 EA
11						
12						
13	Front metal windows	Caulk over glazing	PLM - NAD	Non-Friable	Good	10 EA
14			TEM - NAD			
15						
16	Back metal windows	Caulk - patch	PLM - NAD	Non-Friable	Good	9 EA
17			TEM - NAD			
18						
19	Back warehouse roof	Roof felt (1 layer) over wood with felt layer	PLM - NAD	Non-Friable	Damaged	4,000 SF
20			TEM - NAD			
21						
22	Throughout front portion walls & ceilings & in debris piles	Drywall with joint compound	PLM - NAD	Friable	Significantly Damaged	6,400 SF
23						
24						

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

Project Name: COS 709 W.O. Ezell Boulevard ACM-LBP

Sampled By: Stephanie Hamby

Project Location: 709 W.O. Ezell Boulevard, Spartanburg, South Carolina 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 4/30/2021

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
25	Throughout front portion walls & ceilings	Drywall with joint compound	PLM - NAD	Friable	Significantly Damaged	Duplicate
26						
27						
28						
29	Throughout front portion along perimeter walls & ceilings	Plaster with finish	PLM - NAD	Friable	Significantly Damaged	3,000 SF
30						
31						
32						
33	Front area	Wall panel adhesive	PLM - 2% chrysotile	Non-Friable	Good	75 SF
34						
35						
36	Front area	Gray leveling compound	PLM - NAD	Non-Friable	Good	2,600 SF
37						
38						
39	Front area display	Display tile adhesive	PLM - NAD	Non-Friable	Good	150 SF
40			TEM - NAD			
41						
42	Front area - left side	Adhesive under wooden floors	PLM - NAD	Non-Friable	Good	140 SF
43			TEM - NAD			
44						
45	Back warehouse	Roof shingles on a pallet	PLM - NAD	Non-Friable	Good	1 pallet
46			TEM - NAD			
47						
48						

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

Project Name: COS 709 W.O. Ezell Boulevard ACM-LBP

Sampled By: Stephanie Hamby

Project Location: 709 W.O. Ezell Boulevard, Spartanburg, South Carolina 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 4/30/2021

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
49	Back warehouse	Felt paper in a roll	PLM - NAD	Non-Friable	Good	1 roll
50			TEM - NAD			
51						
52	Back warehouse on storage rack	Brown square pattern vinyl floor with no adhesive in a roll	PLM - NAD	Non-Friable	Good	1 roll
53			TEM - NAD			
54						

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 709 W.O. Ezell Boulevard ACM-LBP

Sampled By: Stephanie Hamby

Project Location: 709 W.O. Ezell Boulevard, Spartanburg, SC 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 4/30/2021

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)
1		Standardization			184.00/Pass
2		Calibration			1.21
3		Calibration			1.18
4		Calibration			1.17
5	Exterior	Door	Light gray	Metal	0.00
6	Exterior	Door frame	Light gray	Metal	0.00
7	Exterior	Front awning header	White	Wood	0.07
8	Exterior	Front awning ceiling	Light gray	Wood	0.00
9	Exterior	Window frame	Light gray	Wood	0.00
10	Exterior	Handrail	White	Vinyl	0.00
11	Exterior	Wall	Light gray	Brick	0.00
12	Exterior	Wall	Light gray	Wood	0.00
13	Exterior	Window	Light gray	Wood	0.00
14	Exterior	Door	Yellow/white	Metal	0.05
15	Exterior	Wall	Light gray	CMU block	1.11
16	Exterior	Window	Yellow/white	Metal	0.01
17	Exterior	Window sill	Yellow/white	Concrete	0.11
18	Interior	Wall	White	CMU block	0.00
19	Interior	Wall	White	Drywall	0.00
20	Interior	Wall	White	Plaster	0.00
21	Interior	Floor wooden pattern	Gray	Ceramic	1.00
22	Interior	Floor square pattern	Brown/red	Ceramic	1.00
23	Interior	Floor big square pattern	Tan	Ceramic	0.00
24	Interior	Floor rectangle pattern	Brown	Ceramic	1.00
25	Interior	Wall	Plum	Plaster	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: 412103729

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

Attention: Tom Oliver
Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

Phone: (864) 640-5274

Fax:

Received Date: 05/05/2021 9:35 AM

Analysis Date: 05/07/2021 - 05/11/2021

Collected Date:

Project: 0421-99 COS 709 WO Ezell Blvd. ACM/LBP (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 412103729-0001	Roll Roofing (2 Layers) over Brown Insulation & Felt Paper (3 Layers)	Gray/Black Non-Fibrous Homogeneous	5% Glass	10% Quartz 15% Ca Carbonate 70% Non-fibrous (Other)	None Detected
1-Felt 412103729-0001A	Roll Roofing (2 Layers) over Brown Insulation & Felt Paper (3 Layers)	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
1-Insulation 412103729-0001B	Roll Roofing (2 Layers) over Brown Insulation & Felt Paper (3 Layers)	Tan Fibrous Homogeneous	60% Cellulose	15% Perlite 25% Non-fibrous (Other)	None Detected
2-Shingle 412103729-0002	Roll Roofing (2 Layers) over Brown Insulation & Felt Paper (3 Layers)	Gray/Black Fibrous Heterogeneous	8% Glass	20% Quartz 8% Ca Carbonate 64% Non-fibrous (Other)	None Detected
2-Felt 412103729-0002A	Roll Roofing (2 Layers) over Brown Insulation & Felt Paper (3 Layers)	Black Non-Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
2-Insulation 412103729-0002B	Roll Roofing (2 Layers) over Brown Insulation & Felt Paper (3 Layers)	Brown Fibrous Homogeneous	90% Cellulose	10% Perlite	None Detected
3-Insulation 412103729-0002C	Roll Roofing (2 Layers) over Brown Insulation & Felt Paper (3 Layers)	Tan Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
4-Flashing 412103729-0003	Flashing Tar	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4-Tar/Mastic 412103729-0003A	Flashing Tar	Tan/Black Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
5-Flashing 412103729-0004	Flashing Tar	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
5-Tar/Mastic 412103729-0004A	Flashing Tar	Tan/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
7 412103729-0005	Flashing Caulk	Gray Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
8 412103729-0006	Flashing Caulk	Gray/White/Black Non-Fibrous Homogeneous		5% Quartz 10% Ca Carbonate 85% Non-fibrous (Other)	None Detected
10 412103729-0007	Metal Window Glazing	Gray Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected

Initial report from: 05/11/2021 14:25:00



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: 412103729

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
11 412103729-0008	Metal Window Glazing	Gray/Tan Non-Fibrous Homogeneous		12% Ca Carbonate 76% Non-fibrous (Other)	12% Chrysotile
13-Caulk 1 412103729-0009	Metal Window Caulk over Glazing	Gray Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
13-Caulk 2 412103729-0009A	Metal Window Caulk over Glazing	Gray/Tan Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
14-Caulk 1 412103729-0010	Metal Window Caulk over Glazing	Gray Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
14-Caulk 2 412103729-0010A	Metal Window Caulk over Glazing	Gray/Tan Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
16 412103729-0011	Metal Window Caulk Patch	Gray Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
17 412103729-0012	Metal Window Caulk Patch	Gray Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
19 412103729-0013	Roof Felt (1 Layer) over Wooden Sheathing w/ Felt Layer (Felts Only)	Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
20 412103729-0014	Roof Felt (1 Layer) over Wooden Sheathing w/ Felt Layer (Felts Only)	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
22-Drywall 412103729-0015	Drywall w/ Joint Compound	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
22-Joint Compound 412103729-0015A	Drywall w/ Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
23-Drywall 412103729-0016	Drywall w/ Joint Compound	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
23-Joint Compound 412103729-0016A	Drywall w/ Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
24-Drywall 412103729-0017	Drywall w/ Joint Compound	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
24-Joint Compound 412103729-0017A	Drywall w/ Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
25-Drywall 412103729-0018	Drywall w/ Joint Compound	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
25-Joint Compound 412103729-0018A	Drywall w/ Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
26-Drywall 412103729-0019	Drywall w/ Joint Compound	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected

Initial report from: 05/11/2021 14:25:00



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

EMSL Order: 412103729
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
26-Joint Compound <small>412103729-0019A</small>	Drywall w/ Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
27-Drywall <small>412103729-0020</small>	Drywall w/ Joint Compound	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
27-Joint Compound <small>412103729-0020A</small>	Drywall w/ Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
28-Drywall <small>412103729-0021</small>	Drywall w/ Joint Compound	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
28-Joint Compound <small>412103729-0021A</small>	Drywall w/ Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
29-Surfacing <small>412103729-0022</small>	Plaster w/ Finish	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
29-Skim Coat <small>412103729-0022A</small>	Plaster w/ Finish	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
29-Rough Coat <small>412103729-0022B</small>	Plaster w/ Finish	Tan Non-Fibrous Homogeneous		30% Quartz 70% Non-fibrous (Other)	None Detected
29-Drywall <small>412103729-0022C</small>	Plaster w/ Finish	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
30-Skim Coat <small>412103729-0023</small>	Plaster w/ Finish	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
30-Rough Coat <small>412103729-0023A</small>	Plaster w/ Finish	Tan Non-Fibrous Homogeneous		30% Quartz 5% Ca Carbonate 65% Non-fibrous (Other)	None Detected
31-Skim Coat <small>412103729-0024</small>	Plaster w/ Finish	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
31-Rough Coat <small>412103729-0024A</small>	Plaster w/ Finish	Tan Non-Fibrous Homogeneous		30% Quartz 5% Ca Carbonate 65% Non-fibrous (Other)	None Detected
32-Skim Coat <small>412103729-0025</small>	Plaster w/ Finish	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
32-Drywall <small>412103729-0025A</small>	Plaster w/ Finish	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
33-Surfacing <small>412103729-0026</small>	Plaster w/ Finish	Tan/White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
33-Skim Coat <small>412103729-0026A</small>	Plaster w/ Finish	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
33-Drywall <small>412103729-0026B</small>	Plaster w/ Finish	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
34-Surfacing <small>412103729-0027</small>	Wall Panel Adhesive	Green Non-Fibrous Homogeneous		30% Ca Carbonate 68% Non-fibrous (Other)	2% Chrysotile

Initial report from: 05/11/2021 14:25:00



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: 412103729
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
34-Mastic <small>412103729-0027A</small>	Wall Panel Adhesive	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
35-Surfacing <small>412103729-0028</small>	Wall Panel Adhesive				Positive Stop (Not Analyzed)
35-Mastic <small>412103729-0028A</small>	Wall Panel Adhesive	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
37-Ceramic Tile <small>412103729-0029</small>	Gray Leveling Compound	White/Red Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
37-Leveler <small>412103729-0029A</small>	Gray Leveling Compound	Gray Non-Fibrous Homogeneous		30% Quartz 5% Ca Carbonate 65% Non-fibrous (Other)	None Detected
38-Ceramic Tile <small>412103729-0030</small>	Gray Leveling Compound	White/Red Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
38-Leveler <small>412103729-0030A</small>	Gray Leveling Compound	Gray Non-Fibrous Homogeneous		30% Quartz 70% Non-fibrous (Other)	None Detected
39-Ceramic Tile <small>412103729-0031</small>	Gray Leveling Compound	Red Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
39-Leveler <small>412103729-0031A</small>	Gray Leveling Compound	Gray Non-Fibrous Homogeneous		25% Quartz 10% Ca Carbonate 65% Non-fibrous (Other)	None Detected
40 <small>412103729-0032</small>	Display Tile Adhesive (Adhesive Only)	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
41 <small>412103729-0033</small>	Display Tile Adhesive (Adhesive Only)	Tan Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
43 <small>412103729-0034</small>	Adhesive under Wooden Floors	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
44 <small>412103729-0035</small>	Adhesive under Wooden Floors	Tan Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
46 <small>412103729-0036</small>	Roof Shingles on a Pallet	Black Non-Fibrous Homogeneous	5% Glass	10% Quartz 15% Ca Carbonate 70% Non-fibrous (Other)	None Detected
47 <small>412103729-0037</small>	Roof Shingles on a Pallet	Gray/Tan/Black Non-Fibrous Homogeneous	5% Glass	10% Quartz 15% Ca Carbonate 70% Non-fibrous (Other)	None Detected
49 <small>412103729-0038</small>	Roof Felt in a Roll	Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
50 <small>412103729-0039</small>	Roof Felt in a Roll	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
52 <small>412103729-0040</small>	Brown Square Pattern Vinyl Floor w/ No Adhesive in a Roll	Tan Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
53 <small>412103729-0041</small>	Brown Square Pattern Vinyl Floor w/ No Adhesive in a Roll	Tan/White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected

Initial report from: 05/11/2021 14:25:00



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Customer ID: AXEM25

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Project ID: City of Spartanburg

Analyst(s)

Eric Loomis (4)

James Kincheloe (28)

Sarah Breneman (37)

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. 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 must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. 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: 05/11/2021 14:25:00



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EMSL Order: 412103729

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

Attention: Tom Oliver
Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

Phone: (864) 640-5274

Fax:

Received Date: 05/05/2021 9:35 AM

Analysis Date: 05/12/2021

Collected Date:

Project: 0421-99 COS 709 WO Ezell Blvd. ACM/LBP (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 412103729-0042	Roll Roofing (2 Layers) over Brown Insulation & Felt Paper (3 Layers)	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
3-Felt 412103729-0043	Roll Roofing (2 Layers) over Brown Insulation & Felt Paper (3 Layers)	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
6-Flashing 412103729-0044	Flashing Tar	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
6-Tar/Mastic 412103729-0045	Flashing Tar	Tan/Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
9 412103729-0046	Flashing Caulk	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
15-Caulk 1 412103729-0047	Metal Window Caulk over Glazing	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
15-Caulk 2 412103729-0048	Metal Window Caulk over Glazing	Gray/Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
18 412103729-0049	Metal Window Caulk Patch	White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
21 412103729-0050	Roof Felt (1 Layer) over Wooden Sheathing w/ Felt Layer (Felts Only)	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
36-Mastic 412103729-0051	Wall Panel Adhesive	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
42 412103729-0052	Display Tile Adhesive (Adhesive Only)	Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
45 412103729-0053	Adhesive under Wooden Floors	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 05/13/2021 15:16:50



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EMSL Order: 412103729

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Project ID: City of Spartanburg

Attention: Tom Oliver
Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

Phone: (864) 640-5274

Fax:

Received Date: 05/05/2021 9:35 AM

Analysis Date: 05/12/2021

Collected Date:

Project: 0421-99 COS 709 WO Ezell Blvd. ACM/LBP (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
48 412103729-0054	Roof Shingles on a Pallet	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
51 412103729-0055	Roof Felt in a Roll	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
54 412103729-0056	Brown Square Pattern Vinyl Floor w/ No Adhesive in a Roll	Brown Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Derrick Young (15)

Lee Plumley, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 05/13/2021 15:16:50



Asbestos Bulk Building Materials - Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
10801 Southern Loop Blvd

EMSL ANALYTICAL INC.
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412103729

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

Customer Information	Customer ID:			Billing Information	Billing ID:		
	Company Name: Apex Environmental Management, Inc.				Company Name: Apex Environmental Management, Inc.		
	Contact Name: Tom Oliver				Billing Contact: Tom Oliver		
	Street Address: 7 Winchester Court				Street Address: 7 Winchester Court		
	City, State, Zip: Mauldin SC 29662 Country: US				City, State, Zip: Mauldin SC Country:		
	Phone: 8644043210				Phone: 8644043210		
Email(s) for Report: toliver@apex-ehs.com				Email(s) for Invoice:			

Project Information			
Project Name/No: 0421-99 COS 709 WO Ezell Blvd ACM/LBP			Purchase Order:
EMSL LIMS Project ID: <small>(If applicable, EMSL will provide)</small>		US State where samples collected: SC	State of Connecticut (CT) must select project location: <input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable)
Sampled By Name: Stephanie Hamby	Sampled By Signature:		No. of Samples In Shipment

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.

PLM - Bulk (reporting limit)	Test Selection
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> POINT COUNT <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) POINT COUNT w/ GRAVIMETRIC <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) <input type="checkbox"/> NIOSH 9002 (<1%) <input type="checkbox"/> NYS 198.1 (Friable - NY) <input type="checkbox"/> NYS 198.6 NOB (Non-Friable - NY) <input type="checkbox"/> NYS 198.8 (Vermiculite SM-V)	<input checked="" type="checkbox"/> TEM - Bulk <input checked="" type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (Non-Friable-NY) <input type="checkbox"/> TEM EPA 600/R-93/116 w Milling Prep (0.1%) <p style="text-align: center;"><u>Other Tests (please specify)</u></p> <p style="text-align: center;"><input checked="" type="checkbox"/> Positive Stop - Clearly Identified Homogeneous Areas (HA)</p>

Sample Number	HA Number	Sample Location	Material Description
1		roll roofing (2 layers) over	PLM
2		brown insulation felt paper	PLM
3		(3 layers)	TEM
4		Flashing tar at	PLM
5			PLM
6			TEM
7		Flashing CAULK	PLM
8			PLM
9			TEM

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

Method of Shipment: Fed Ex		Sample Condition Upon Receipt:	
Relinquished by: <i>[Signature]</i>	Date/Time: 5-3-21 3PM	Received by: <i>[Signature]</i>	Date/Time: 5/5/21 9:35AM
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - Asbestos Bulk R5 03/18/2021 AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



Asbestos Bulk Building Materials - Chain of Custody

EMSL Order Number / Lab Use Only

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

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		Metal window glazing	PLM
11			↓
12			TEM
13		Metal window caulk over	PLM
14		glazing	↓
15			TEM
16		Metal window caulk	PLM
17		patch	↓
18			TEM
19		Roof felt (1 layer) over	PLM
20		wooden sheathing w/ felt	↓
21		layer (analyze felts only)	TEM
22		Drywall w/ joint compound	PLM
23			↓
24			↓
25			↓
26			↓
27			↓
28			↓
29		Plaster w/ finish	PLM
30			↓
31			↓
32			↓
33			↓

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by:	Date/Time
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - Asbestos Bulk R5 03/18/2021

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

Sample Number	HA Number	Sample Location	Material Description
34		Wall panel adhesive	PLM
35			↓
36			TEM
37		Gray leveling compound	PLM
38			↓
39			TEM
40		Display file adhesive	PLM
41		(adhesive only)	↓
42			TEM
43		Adhesive under wooden	PLM
44		floors	↓
45			TEM
46		Roof shingles on a pallet	PLM
47			↓
48			TEM
49		Roof felt on a roll	PLM
50			↓
51			TEM
52		Brown square pattern	PLM
53		vinyl floor w/ no adhesive	↓
54		in a roll	TEM

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

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SECTION IV
Photographic Log



Photo 1 – 709 W.O. Ezell Boulevard in Spartanburg, South Carolina 29301



Photo 2 – 709 W.O. Ezell Boulevard in Spartanburg, South Carolina 29301



Photo 3 – Roll roofing over brown insulation & felt paper on the front roof



Photo 4 – Flashing caulk on the front roof



Photo 5 – Flashing tar on the flat roof



Photo 6 – Back metal window with glazing



Photo 7 – Back metal window with glazing



Photo 8 – Front metal windows with caulk over glazing



Photo 9 – Front metal windows with caulk over glazing



Photo 10 – Caulk patch on back metal windows



Photo 11 – Roof felt & rubber membrane on back warehouse roof



Photo 12 – Roof felt & rubber membrane on back warehouse roof



Photo 13 – Drywall with joint compound in debris piles



Photo 14 – Drywall with joint compound



Photo 15 – Plaster with finish ceilings



Photo 16 – Plaster with finish walls



Photo 17 – Wall panel adhesive in the front area



Photo 18 – Gray leveling compound in the front area



Photo 19 – Display tile adhesive in the front display area



Photo 20 – Adhesive under wooden floors in the front area - left side



Photo 21 – Roof shingles on a pallet in the back warehouse



Photo 22 – Roofing felt in a roll in the back warehouse area



Photo 23 – Typical view of the back warehouse area



Photo 24 – Typical view of the back warehouse area

SECTION V

SC DHEC Asbestos Inspector License



January 8, 2021

To whom it may concern:

Due to an unforeseen printer outage the SC Department of Health and Environmental Control Asbestos Program cannot issue a Standard Asbestos License

AS-000632 exp 8/13/2021
for license number: BI-01894 exp 1/12/2022

Please accept this correspondence as a temporary acknowledgment

of Air Sampler & Building Inspector licensing status.

Stephanie Hamby will be issued a standard license card once our systems are fully operational.

Keep this letter with you all the time during work at the job site.

If you have any questions, please call the Asbestos Section at 803-898-4289.

Sincerely,

A handwritten signature in black ink that reads "Jennifer Lynn Boryk".

Jennifer Lynn Boryk
Manager, Asbestos Section
Bureau of Air Quality