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SERVICES

Indoor Air Quality

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Moisture Management Plans

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Environmental Site Assessments

Hazard Communication

Apex Project Number 0120-17

February 10, 2020

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

Reference: Asbestos Reassessment and Lead-Based Paint Services

124 Georgia Street

Spartanburg, South Carolina 29306

Dear Mr. Tillerson:

Apex Environmental Management, Inc. (Apex) has completed the asbestos reassessment survey at the above-referenced property. The survey consisted of a reassessment of the residence in accordance with National Emission Standard for Hazardous Air Pollutants (NESHAP) and the South Carolina Department of Health and Environmental Control (SC DHEC) which requires the identification of friable ACM and non-friable ACM likely to become friable during demolition and/or renovation activities. Furthermore, according to NESHAP and SC DHEC the building inspection shall have been performed no earlier than three years prior to the renovation or demolition, or, if more than three years have elapsed since the most recent inspection, the previous inspection shall be confirmed and verified by a licensed asbestos building inspector or management planner.

The residence was previously assessed on July 15, 2016 by Apex. A copy of the previous report is provided at the conclusion of this report. Included in this report is a summary of our field activities and the information obtained. The objectives of the survey included the following:

SCOPE OF THE SURVEY

The objectives of the asbestos assessment included the following:

- Review of existing asbestos documentation.
- Asbestos reassessment by a South Carolina accredited inspector.
- Documentation of current condition, friability and location of identified asbestos containing materials, identification and sampling of previously unidentified suspect materials and documentation of abatement of asbestos materials.
- Laboratory analysis of newly identified materials, if observed, by a NVLAP accredited laboratory.
- Presenting the results in a report identifying confirmed ACMs.

Report of Asbestos Reassessment 124 Georgia Street Spartanburg, SC 29306 February 10, 2020

METHODS

Apex conducted a visual evaluation of the residence located at 124 Georgia Street in Spartanburg, South Carolina. The previous report was utilized to note which materials were previously identified as asbestos containing and note presence and/or current condition. The asbestos assessment was performed by Mr. Ted Shultz (SC inspector license # BI-00971, exp. 01/16/2020) on January 7, 2020. Apex was not required to perform additional sampling.

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. A specific *PLM and TEM Data Table* is included with the previous report in Appendix I and identifies positive materials and designates approximate quantities.

Portions of the residence have collapsed floors or floors that are collapsing. These areas were fully assessed, however, if additional suspect ACM should be 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 15 SF of self-stick tile under linoleum and wood in the bathroom.
- Approximately 6 LF of chimney caulk, 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 $\mu g/m^3$) during an eight-hour workday and a permissible exposure level of fifty micrograms per cubic meter (50 $\mu g/m^3$) for employees.

Currently, EPA defines LBP as paint containing in excess of, or equal to, 1.0 mg/cm². 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:

- White concrete porch column base.
- Grey wooden porch ceiling & siding.
- White wood window casing.
- Grey concrete front steps

Interior:

No LBP was identified in the sampled areas.

Report of Asbestos Reassessment 124 Georgia Street Spartanburg, SC 29306 February 10, 2020

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 (μ g/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.

Report of Asbestos Reassessment 124 Georgia Street Spartanburg, SC 29306 February 10, 2020

CLOSING

Apex appreciates the opportunity to provide you with our asbestos consulting services and looks forward to our continued association. If you have any questions about this report or any other industrial hygiene concerns please contact us at (864) 404-3210.

Sincerely,

Apex Environmental Management, Inc.

Tom Oliver Vice President

Appendix I: Previous Asbestos Inspection Report
Appendix II: SC DHEC Asbestos Inspector License

Appendix I

Previous Asbestos Inspection Report



Asbestos & Lead Based Paint Assessment

City of Spartanburg 124 Georgia Street Spartanburg, South Carolina

Prepared for:

The City of Spartanburg 440 South Church Street, Suite B Spartanburg, SC 29306-5234

Prepared by:

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

Project Number: 0815-163

August 4, 2015





7 Winchester Court Mauldin, SC 29662 864.404.3210 office 864.404.3213 fax www.apex-ehs.com

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Apex Project Number 0815-163

August 4, 2016

Mr. Lynn Coggins
City of Spartanburg
440 South Church Street, Suite B
Spartanburg, SC 29306-5234

Reference: Asbestos and Lead-Based Paint Assessment Services

124 Georgia Street

Spartanburg, South Carolina

Dear Mr. Coggins:

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.

Nick Neerhof Project Manager Thomas Oliver Director of Operations

Appendices

ASBESTOS AND LEAD BASED PAINT ASSESSMENT

CITY OF SPARTANBURG 124 GEORGIA STREET SPARTANBURG, SOUTH CAROLINA

APEX PROJECT NO. 0815-163

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- V SC Asbestos Inspector License

SECTION I

Asbestos & Lead Evaluation Report

ASBESTOS/LEAD EVALUATION REPORT APEX PROJECT NUMBER: 0815-163

Date: 8/11/2016 Page Number: 1 of 4

Client: City of Spartanburg Client Contact: Mr. Lynn Coggins

Client 440 South Church St., Suite B Client Phone (864) 596-2914 Address: Spartanburg, SC 29306-5234 Number:

Project: Asbestos and Lead

Evaluation

Property 124 Georgia Street Address: Spartanburg, SC

Assessor: Ted Shultz Date of 7/15/2016

Company: Apex Environmental Assessment: Phone Number

Management
7 Winchester Cour

7 Winchester Court Mauldin, SC 29662

Purpose of Demolition Age of +50

Assessment: Structure:

Building Residential Number of 1
Type: Stories:

Foundation: Block Approximate 820 SF

Square Footage

EXTERIOR BUILDING MATERIALS INTERIOR BUILDING MATERIALS

Wood siding
 Wood Ceilings and walls

Pitched wooden roof with metal shingles and four layers of different kinds of
 Plaster with skim coat
 Drywall with joint compound

shingles and one layer of felt

• Linoleum under wood

underneath
Wood windows with glazing
Multiple types and layers of self-stick vinyl flooring

Wood will dows with glazing
 One chimney, caulk is assumed positive
 Wood doors

City of Spartanburg 124 Georgia Street Apex Project No: 0815-163 August 11, 2016

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 (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. Twenty-one (21) bulk samples were collected during the survey and submitted to EMSL in Charlotte, 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). CEI participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Their NVLAP accreditation number is 101768-0. EPA regulations require that multiple samples of each homogeneous material be collected for laboratory analysis. 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). Ten (10) 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 Containing Materials

The EPA defines an asbestos-containing material (ACM) as a material containing more than 1% asbestos. OSHA defines ACM as a material containing any amount of asbestos. The *Asbestos PLM & TEM Data Table* is provided in Appendix II. Portions of the residence have collapsed floors or floors that are collapsing. These areas were fully assessed, however, if additional suspect ACM should be 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:

City of Spartanburg 124 Georgia Street Apex Project No: 0815-163 August 11, 2016

- Approximately 15 SF of self-stick tile under linoleum and wood in the bathroom.
- Approximately 6 LF of chimney caulk, 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 μ g/m³) during an eight-hour workday and a permissible exposure level of fifty micrograms per cubic meter (50 μ g/m³) for employees.

Currently, SCDHEC defines LBP as paint containing in excess of, or equal to, 1.0 mg/cm². The laboratory analytical results and chain-of-custody are included in the Lead Analysis Reports in Appendix A. The approximate locations of the paint samples collected and analytical results are presented in the Tables included with this report.

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

- Exterior porch white wooden siding.
- Exterior porch white wooden column.
- Exterior porch white wooden beam.
- Interior front right room grey wooden ceiling.

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:

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City of Spartanburg 124 Georgia Street Apex Project No: 0815-163 August 11, 2016

Lead Based Paint

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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

Tables

ASBESTOS SURVEY FIELD DATA SHEET

Project Name: COS 124 Georgia Street ACM/LBP Sampled By: Ted Shultz

Project Location: 124 Georgia Street, Spartanburg SC Project Manager: Ted Shultz

 Project Number:
 0815-163
 Date:
 7/15/2016

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1			PLM - NAD			
2	Kitchen	Two layers of self stick tile under wood		Non-Friable	Good	180 SF
3			TEM - NAD			
4		Three layers of self stick tile, under	PLM - Red Flooring - 5%			
5	Bathroom	linoleum and wood	Chrysotile	Non-Friable	Good	15 SF
6		iniologin and wood	TEM - NAD (mastic)			
7			PLM - NAD		Good	
8	Back Room	Green Sheet Flooring		Non-Friable		83 SF
9			TEM - NAD			
10						
11	Left Room	Plaster	PLM - NAD	Friable	Good	500 SF
12						
13						
14	Back Room	Drywall with joint compound	PLM - NAD	Friable	Good	210 SF
15						
16			PLM - NAD			
17	Exterior	Window Glazing		Non-Friable	Good	13 EA
18			TEM - NAD			
19			PLM - NAD			
20	Exterior	Shingles(4) and Felt(1)		Non-Friable	Good	1,250 SF
21			TEM - NAD			
Assumed	Chimney	Chimney mastic on 1 chimney	Assumed	Non-Friable	Good	6 LF

NAD = No Asbestos Detected

LF = Linear Feet

EA = Each

Bold = Positive For Asbestos

SF = Square Feet

FIELD DATA SHEET LBP ANALYSIS

Project Name: COS 124 Georgia Street ACM/LBP Sampled By: Ted Shultz

Project Location: 124 Georgia Street Spartanburg SC Project Manager: Ted Shultz

Project Number: 0815-163 Date: 7/26/2016

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m³)
117	Porch	Siding	White	Wood	4.06
118	Porch	Column	White	Wood	2.89
119	Porch	Floor	Grey	Wood	0.02
120	Porch	Beam	White	Wood	Insufficient
121	Porch	Beam	White	Wood	2.59
122	Front right room	xrf - dead battery restart	Purple	Plaster	Fail
123	Test				1.08
124	Test				1.12
125	Test				0.96
126	Front right room	Wall	Purple	Plaster	0.00
127	Front right room	Ceiling	Blue	Wood	Abort
128	Front right room	Door frame	Tan	Wood	0.08
129	Front left room	Wall paneling	Blue	Wood	0.00
130	Front left room	Bead board	White	Wood	0.80
131	Front right room	Ceiling	Grey	Wood	4.33

SECTION III

Laboratory Analytical Results



Apex Environmental Management

EMSL Order: 411605613 Customer ID: AXEM25

Customer PO: Project ID:

Phone: (803) 348-4921

Fax:

Received Date: 07/19/2016 9:45 AM

Analysis Date: 07/21/2016

Collected Date:

Project: 124 Georgia St./ 0815-163

7 Winchester Court

Mauldin, SC 29662

Attention: Ted Shultz

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

			<u>stos</u>	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
1-Brown Flooring 411605613-0001	Kitchen - Two Layers of Self Stick Tile under Wood	Brown Non-Fibrous Homogeneous		35% Ca Carbonate 65% Non-fibrous (Other)	None Detected
1-Gray Flooring	Kitchen - Two Layers of Self Stick Tile under Wood	Gray Non-Fibrous Homogeneous	2% Cellulose	30% Ca Carbonate 68% Non-fibrous (Other)	None Detected
2-Brown Flooring	Kitchen - Two Layers of Self Stick Tile under Wood	Brown Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
2-Gray Flooring	Kitchen - Two Layers of Self Stick Tile under Wood	Gray Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
4-Brown Flooring	Bathroom - Three Layers of Self Stick Tile with Linoleum under Wood	Brown Non-Fibrous Homogeneous		35% Ca Carbonate 65% Non-fibrous (Other)	None Detected
4-Gray Flooring 411605613-0003A	Bathroom - Three Layers of Self Stick Tile with Linoleum under Wood	Gray/Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
4-Red Flooring 411605613-0003B	Bathroom - Three Layers of Self Stick Tile with Linoleum under Wood	White/Red Fibrous Homogeneous	8% Cellulose	87% Non-fibrous (Other)	5% Chrysotile
5-Brown Flooring 411605613-0004	Bathroom - Three Layers of Self Stick Tile with Linoleum under Wood	Brown Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
5-Gray Flooring 411605613-0004A	Bathroom - Three Layers of Self Stick Tile with Linoleum under Wood	Gray Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
5-Red Flooring 411605613-0004B	Bathroom - Three Layers of Self Stick Tile with Linoleum under Wood				Positive Stop (Not Analyzed)
7 411605613-0005	Back Room - Green Sheet Flooring	Green Fibrous Homogeneous	50% Cellulose 5% Synthetic	45% Non-fibrous (Other)	None Detected
411605613-0006	Back Room - Green Sheet Flooring	Green Fibrous Homogeneous	45% Cellulose 5% Synthetic	50% Non-fibrous (Other)	None Detected
10-Skim Coat 411605613-0007	Left Room - Plaster	White Non-Fibrous Homogeneous		5% Quartz 5% Ca Carbonate 90% Non-fibrous (Other)	None Detected
10-Rough Coat 411605613-0007A	Left Room - Plaster	Beige Non-Fibrous Homogeneous	1% Cellulose	40% Quartz 59% Non-fibrous (Other)	None Detected

Initial Report From: 07/22/2016 08:05:26

EMSL Order: 411605613 **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 Wife Situate S				Non-Asbes	stos	<u>Asbestos</u>		
Non-Fibrous	Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type		
11-Rough Coat Left Room - Plaster Minogeneous Homogeneous Homogene		Left Room - Plaster	Non-Fibrous		5% Ca Carbonate	None Detected		
Non-Fibrous Homogeneous			-		, ,			
12-Skim Coat Left Room - Plaster White Sis Ca Carbonate Sir Ca	· ·	Left Room - Plaster	Non-Fibrous			None Detected		
Non-Fibrous 5% Ca Carbonate 19/2 Non-Fibrous 19/2 Carbonate 19/2 Non-Fibrous 19/2 Carbonate None Detected None Detecte	411605613-0008A		Homogeneous					
12-Rough Coat Left Room - Plaster Koray 1% Cellulose 35% Ca Carbonate None Detected 476,06813-00094 Non-Fibrous None Detected 476,06813-00094 Non-Fibrous None Detected None Detecte		Left Room - Plaster	Non-Fibrous		5% Ca Carbonate	None Detected		
Non-Fibrous Sak Room Drywall Back Room Drywall With Joint Compound present Sacross	411605613-0009		Homogeneous		87% Non-fibrous (Other)			
Back Room - Drywall with Joint Compound Present	· ·	Left Room - Plaster	Non-Fibrous	1% Cellulose		None Detected		
with Joint Compound present Hornogeneous Hornogeneous Hornogeneous Hornogeneous	411605613-0009A		Homogeneous					
No. joint compound present Brown/Gray	13-Drywall	•	•	8% Cellulose	92% Non-fibrous (Other)	None Detected		
14-Drywall Back Room - Drywall with Joint Compound With Joint	411605613-0010		Homogeneous					
with Joint Compound present 15-Drywall with Joint Compound present 15-Drywall with Joint Compound present 16-Drywall with Joint Compound present 17-Drywall with Joint Compound present 17-Drywall with Joint Compound present 19-Green Shingle (4) and Felt pibrous a Jake Creat Present 19-Green Shingle Sterior Roof - Gray Black Shingles (4) and Felt pibrous a Jake Synthetic by Non-fibrous (Other) 19-Black Shingle (4) and Felt pibrous a Jake Synthetic by Non-fibrous (Other) 19-Black Shingle Shingle Exterior Roof - Shingles (4) and Felt pibrous a Jake Synthetic by Synth	No joint compound present							
15-Drywall Back Room - Drywall With Joint Compound Fibrous Homogeneous Hom	14-Drywall	•	•	8% Cellulose	92% Non-fibrous (Other)	None Detected		
Back Room - Drywall with Joint Compound Fibrous Brown/Gray Homogeneous Homogen	411605613-0011	•	Homogeneous					
with Joint Compound Present 16 Exterior - Window Glazing Non-Fibrous Homogeneous 17 Exterior - Window Gray Non-Fibrous Sol Non-fibrous (Other) 18 Exterior - Window Glazing Non-Fibrous Sol Non-Fibrous (Other) 19 Exterior - Window Gray Non-Fibrous Sol Non-Fibrous (Other) 19 Exterior - Window Gray Non-Fibrous Sol Non-Fibrous (Other) 19 Exterior Roof Shingles (4) and Felt Shingles (5) and Felt Shingles (5) and Felt Shingles (6) and Fe	No joint compound present							
Homogeneous Homogeneous Homogeneous Homogeneous	15-Drywall	•	•	10% Cellulose	90% Non-fibrous (Other)	None Detected		
Exterior - Window Glazing Siray Non-Fibrous Homogeneous Siray Non-Fibrous (Other)	411605613-0012	,						
Figure F	No joint compound present							
Exterior - Window Glazing Non-Fibrous Homogeneous 70% Non-fibrous (Other) None Detected 70% None Detected 70% Non-fibrous (Other) None Detected 70% None Detected 70% Non-fibrous (Other) None Detected 70% None Detected 70% None Detected 70% None None Detected 70% None None Detected 70% None Detected 70% None None None Detected 70% None None None None None Detected 70% None None Detected 70% None None None None None None None None	16		•			None Detected		
Glazing Non-Fibrous Homogeneous 70% Non-fibrous (Other) 19-Green Shingle Exterior Roof - Shingles (4) and Felt Fibrous Homogeneous 70% Non-fibrous (Other) 19-White Shingle Exterior Roof - Shingles (4) and Felt Fibrous Homogeneous 70% Non-fibrous (Other) 19-White Shingle Exterior Roof - Shingles (4) and Felt Fibrous Homogeneous 70% Non-fibrous (Other) 19-Gray Shingle Exterior Roof - Gray/Black 35% Cellulose 5% Quartz None Detected 7% Non-fibrous (Other) 19-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 3% Synthetic 57% Non-fibrous (Other) 19-Black Shingle Exterior Roof - Black 30% Cellulose 5% Quartz None Detected 75% Non-fibrous (Other) 19-Black Shingle Exterior Roof - Shingles (4) and Felt Fibrous 3% Synthetic 62% Non-fibrous (Other) 20-Green Shingle Exterior Roof - Green 20% Cellulose 79% Non-fibrous (Other) 10-Gray Shingles (4) and Felt Fibrous 1% Synthetic 1% Synth	411605613-0013		Homogeneous					
Skingle Exterior Roof - Shingles (4) and Felt Fibrous 25% Cellulose 5% Quartz None Detected Shingles (4) and Felt Fibrous 2% Synthetic 68% Non-fibrous (Other) Shingles (4) and Felt Fibrous 2% Synthetic 68% Non-fibrous (Other) Shingles (4) and Felt Fibrous Shingles (4) and Felt Fibrous Shingles (4) and Felt Fibrous 3% Synthetic 57% Non-fibrous (Other) Shingles (4) and Felt Fibrous 3% Synthetic 57% Non-fibrous (Other) Shingles (4) and Felt Fibrous 3% Synthetic 57% Non-fibrous (Other) Shingles (4) and Felt Fibrous 3% Synthetic 57% Non-fibrous (Other) Shingles (4) and Felt Fibrous 3% Synthetic 62% Non-fibrous (Other) Shingles (4) and Felt Fibrous 3% Synthetic 62% Non-fibrous (Other) Shingles (4) and Felt Fibrous 3% Synthetic 62% Non-fibrous (Other) None Detected Shingles (4) and Felt Fibrous 3% Synthetic 62% Non-fibrous (Other) None Detected Shingles (4) and Felt Fibrous 1% Synthetic 1% Syn	17		•			None Detected		
Shingles (4) and Felt (1) Homogeneous 2% Synthetic 68% Non-fibrous (Other) 19-White Shingle Exterior Roof - Shingles (4) and Felt Fibrous Homogeneous (1) Hom	411605613-0014		Homogeneous					
No felt present 19-White Shingle Shingles (4) and Felt Homogeneous 19-Gray Shingle Exterior Roof - Shingles (4) and Felt Homogeneous 19-Gray Shingle Exterior Roof - Shingles (4) and Felt Homogeneous 19-Black Shingle Shingles (4) and Felt Homogeneous 19-Black Shingle Exterior Roof - Shingles (4) and Felt Homogeneous 19-Black Shingle Exterior Roof - Shingles (4) and Felt Homogeneous 19-Black Shingle Exterior Roof - Shingles (4) and Felt Homogeneous 19-Black Shingle Exterior Roof - Shingles (4) and Felt Homogeneous 19-Black Shingle Exterior Roof - Shingles (4) and Felt Homogeneous 19-Black Shingle Exterior Roof - Shingles (4) and Felt Homogeneous 19-Black Shingle Exterior Roof - Shingles (4) and Felt Fibrous 19-Shingles Exterior Roof - Shingles (4) and Felt Homogeneous 19-Black Exterior Roof - Shingles (4) and Felt Homogeneous 19-Black Exterior Roof - Shingles (4) and Felt Fibrous 19-Shingle Exterior Roof - Shingles (4) and Felt Fibrous 19-Shingle Exterior Roof - Shingles (4) and Felt Fibrous 19-Shingle Exterior Roof - Shingles (4) and Felt Fibrous 19-Shingle Exterior Roof - Shingles (4) and Felt Fibrous 20-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 20-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 20-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 20-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 20-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 20-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 20-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 20-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 20-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 20-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 20-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 20-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 20-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 20-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 20-Gray Shingle Exterior Roof - Shingles (4) a	19-Green Shingle					None Detected		
19-White Shingle Exterior Roof - Shingles (4) and Felt Fibrous Homogeneous 19-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 37 Synthetic 57% Non-fibrous (Other) 19-Gray Shingle Exterior Roof - Shingles (4) and Felt Fibrous 37% Synthetic 57% Non-fibrous (Other) 19-Black Shingle Exterior Roof - Shingles (4) and Felt Fibrous 37% Synthetic 57% Non-fibrous (Other) 19-Black Shingle Exterior Roof - Shingles (4) and Felt Fibrous 37% Synthetic 62% Non-fibrous (Other) 19-Black Shingle Exterior Roof - Shingles (4) and Felt Fibrous 37% Synthetic 62% Non-fibrous (Other) 19-Black Shingle Exterior Roof - Shingles (4) and Felt Fibrous 17% Synthetic 19-Black Shingle Exterior Roof - Shingles (4) and Felt Fibrous 17% Synthetic 19-Black Shingle Exterior Roof - Shingles (4) and Felt Fibrous 17% Synthetic 19-Black Shingle Exterior Roof - Shingles (4) and Felt Fibrous 19-Black Shingles (4) and Felt Fibrous 20% Cellulose 78% Non-fibrous (Other) None Detected 19-Black Shingles (4) and Felt Fibrous 20% Cellulose 78% Non-fibrous (Other) None Detected 19-Black Shingle Exterior Roof - Shingles (4) and Felt Fibrous 2% Synthetic 19-Black	411605613-0015	(1)	Homogeneous	·	,			
Shingles (4) and Felt (1) Homogeneous 67% Non-fibrous (Other) 19-Gray Shingle Exterior Roof - Shingles (4) and Felt (1) Homogeneous 35% Cellulose 5% Quartz None Detected 57% Non-fibrous (Other) 19-Black Shingle Exterior Roof - Shingles (4) and Felt Fibrous 3% Synthetic 57% Non-fibrous (Other) 19-Black Shingle Exterior Roof - Shingles (4) and Felt Fibrous 3% Synthetic 62% Non-fibrous (Other) 20-Green Shingle Exterior Roof - Shingles (4) and Felt (1) Homogeneous 1% Synthetic 1% Synthetic (1) Homogeneous 1% Synthetic 1% Synthetic (1) Homogeneous 79% Non-fibrous (Other) None Detected 11605613-0016A (1) Homogeneous 75% Non-fibrous (Other) None Detected 11605613-0016A (1) Homogeneous 75% Non-fibrous (Other) None Detected 11605613-0016A (1) Homogeneous 20% Cellulose 75% Non-fibrous (Other) None Detected 11605613-0016A (1) Homogeneous 20% Cellulose 2% Synthetic 15 Fibrous 2% Synthetic	No felt present							
Homogeneous	19-White Shingle			25% Cellulose		None Detected		
Shingles (4) and Felt (1) Homogeneous 3% Synthetic 57% Non-fibrous (Other) 19-Black Shingle Exterior Roof - Shingles (4) and Felt Fibrous 3% Synthetic 62% Non-fibrous (Other) 20-Green Shingle Exterior Roof - Shingles (4) and Felt Fibrous 1% Synthetic 62% Non-fibrous (Other) 20-Green Shingle Exterior Roof - Green 20% Cellulose 1% Synthetic 1% None Detected 1% Shingles (4) and Felt Fibrous 1% Synthetic 1% None-fibrous (Other) None Detected 1% Shingles (4) and Felt Fibrous 1% Synthetic 1% None-fibrous (Other) 1% None Detected 1% None-fibrous (Other) 1% None-fib	411605613-0015A				(/			
#### Homogeneous 19-Black Shingle	19-Gray Shingle		•			None Detected		
19-Black Shingle Exterior Roof - Shingles (4) and Felt Fibrous 3% Synthetic 62% Non-fibrous (Other) 20-Green Shingle Exterior Roof - Shingles (4) and Felt Fibrous 1% Synthetic 62% Non-fibrous (Other) 20-Green Shingle Exterior Roof - Green 20% Cellulose 1% Synthetic 1% Shingles (4) and Felt Fibrous 1% Synthetic 1% Synthetic 1% Shingles (4) and Felt Fibrous 20% Cellulose 75% Non-fibrous (Other) 1% None Detected 1% Shingles (4) and Felt Fibrous 2% Synthetic 1% S	411605613-0015B			070 Cyritiletic	or witten librous (Other)			
#### Homogeneous 20-Green Shingle		Exterior Roof -	Black			None Detected		
20-Green Shingle Exterior Roof - Shingles (4) and Felt Fibrous No felt present 20-White Shingle Exterior Roof - Shingles (4) and Felt Fibrous None Detected Shingles (4) and Felt Fibrous None Detected Shingles (4) and Felt Fibrous Shingles (4) and Felt Fibrous 411605613-0016A (1) Exterior Roof - White Shingles (4) and Felt Fibrous Homogeneous 20-Gray Shingle Exterior Roof - Gray Exterior Roof - Gray 20% Cellulose 78% Non-fibrous (Other) None Detected Shingles (4) and Felt Fibrous Shingles (4) and Felt Fibrous Shingles (4) and Felt Fibrous 411605613-0016B (1) Homogeneous 20-Black Shingle Exterior Roof - Black 15% Cellulose 83% Non-fibrous (Other) None Detected	411605613-0015C			3% Synthetic	62% Non-fibrous (Other)			
#11605613-0016 No felt present Co-White Shingle	20-Green Shingle		Green		79% Non-fibrous (Other)	None Detected		
No felt present 20-White Shingle Exterior Roof - White Shingles (4) and Felt Fibrous T5% Non-fibrous (Other) 411605613-0016A (1) Homogeneous 20-Gray Shingle Exterior Roof - Gray 20% Cellulose 78% Non-fibrous (Other) None Detected Shingles (4) and Felt Fibrous 2% Synthetic (1) Homogeneous 20-Black Shingle Exterior Roof - Black 15% Cellulose 83% Non-fibrous (Other) None Detected	1 11605613-0016	• , ,		1 /0 Cyritiletic				
Shingles (4) and Felt (1) Homogeneous 20-Gray Shingle Shingles (4) and Felt (1) Homogeneous 20-Gray Shingle Shingles (4) and Felt (1) Fibrous (20% Cellulose (20% Non-fibrous (Other)) Shingles (4) and Felt (1) Homogeneous 20-Black Shingle Exterior Roof - Black 15% Cellulose 83% Non-fibrous (Other) None Detected 83% Non-fibrous (Other) None Detected		. ,	9					
411605613-0016A (1) Homogeneous 20-Gray Shingle Exterior Roof - Gray 20% Cellulose 78% Non-fibrous (Other) None Detected Shingles (4) and Felt Fibrous 2% Synthetic Homogeneous 20-Black Shingle Exterior Roof - Black 15% Cellulose 83% Non-fibrous (Other) None Detected	20-White Shingle			20% Cellulose		None Detected		
20-Gray Shingle Exterior Roof - Gray 20% Cellulose 78% Non-fibrous (Other) None Detected Shingles (4) and Felt Fibrous 2% Synthetic (1) Homogeneous 20-Black Shingle Exterior Roof - Black 15% Cellulose 83% Non-fibrous (Other) None Detected	411605613-0016A				. 5 / 5 . 151			
411605613-0016B (1) Homogeneous 20-Black Shingle Exterior Roof - Black 15% Cellulose 83% Non-fibrous (Other) None Detected		Exterior Roof -	Gray		78% Non-fibrous (Other)	None Detected		
20-Black Shingle Exterior Roof - Black 15% Cellulose 83% Non-fibrous (Other) None Detected	411605613-0016B			2 /0 Syriuleuc				
Offingios (T) and Folk Fibrous 2/0 Oyntholio		Exterior Roof -	Black		83% Non-fibrous (Other)	None Detected		
411605613-0016C (1) Homogeneous	411605613-0016C			270 Cyritiletto				

Initial Report From: 07/22/2016 08:05:26



EMSL Order: 411605613 **Customer ID:** AXEM25

Customer PO: Project ID:

Analyst(s)

Aaron Hartley (17) Eric Loomis (1) Lyterra Barrow (12) Lee Plumley, Laboratory Manager or Other Approved Signatory

Evan L Plumber

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

Initial Report From: 07/22/2016 08:05:26



EMSL Analytical, Inc.

376 Crompton Street, Charlotte, NC 28273 Phone/Fax: (704) 525-2205 / (704) 525-2382

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

EMSL Order: CustomerID:

ProjectID:

411605613 AXEM25

CustomerPO:

Attn: Ted Shultz

Apex Environmental Management

7 Winchester Court Mauldin, SC 29662

Phone: (864) 640-5274

Fax:

Received: 07/22/16 9:10 AM Analysis Date: 7/26/2016

Collected:

Project: 124 Georgia St./ 0815-163

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-Brown Flooring 411605613-0017	Kitchen - Two Layers of Self Stick Tile under Wood	Brown/Black Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
3-Gray Flooring 411605613-0018	Kitchen - Two Layers of Self Stick Tile under Wood	Gray/Black Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
6-Brown Flooring 411605613-0019	Bathroom - Three Layers of Self Stick Tile with Linoleum under Wood	Brown/Black Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
6-Gray FLooring 411605613-0020	Bathroom - Three Layers of Self Stick Tile with Linoleum under Wood	Gray/Black Fibrous Heterogeneous	100	None	No Asbestos Detected
9 411605613-0021	Back Room - Green Sheet Flooring	Red/Black/Green Fibrous Heterogeneous	99.7	0.30 Fibrous (other)	No Asbestos Detected
18 411605613-0022	Exterior - Window Glazing	Gray/White Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
21-Green Shingle 411605613-0023	Exterior Roof - Shingles (4) and Felt (1)	Black/Green Fibrous Heterogeneous	100	None	No Asbestos Detected
21-White Shingle 411605613-0024	Exterior Roof - Shingles (4) and Felt (1)	White/Black Fibrous Heterogeneous	100	None	No Asbestos Detected
21-Gray Shingle 411605613-0025	Exterior Roof - Shingles (4) and Felt (1)	Gray/Black Fibrous Heterogeneous	99.7	0.27 Fibrous (other)	No Asbestos Detected

Analyst(s)	
Aaron Hartley (10)	

Lee Plumley, Laboratory Manager or other approved signatory

Evan L Plumber

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. Charlotte, NC

Initial report from 07/27/2016 08:23:14



EMSL Analytical, Inc.

376 Crompton Street, Charlotte, NC 28273 Phone/Fax: (704) 525-2205 / (704) 525-2382

http://www.EMSL.com charlottelab@emsl.com EMSL Order: CustomerID:

ProjectID:

411605613 AXEM25

CustomerPO:

Attn: Ted Shultz

Apex Environmental Management

7 Winchester Court Mauldin, SC 29662

Phone: (864) 640-5274

Fax:

Received: 07/22/16 9:10 AM Analysis Date: 7/26/2016

Collected:

Project: 124 Georgia St./ 0815-163

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
21-Black Shingle	Exterior Roof - Shingles (4)	Black	100	None	No Asbestos Detected
411605613-0026	and Felt (1)	Fibrous Heterogeneous			

Analyst(s)

Aaron Hartley (10)

Lee Plumley, Laboratory Manager or other approved signatory

Evan L Plumber

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. Charlotte, NC

Initial report from 07/27/2016 08:23:14





CHAIN OF CUSTODY

- LABS			LAB USE	ONLY:				
1 <mark>0</mark> 7 New Edition Court, Cary, I	NC 27511		CEI Lab	Code:				
Tel: 866-481-1412; Fax: 919-4	481-1442		CEI Lab	I.D. Rang	je:			
COMPANY CONTACT INF	ORMATION							
Company: Apex Environmenta	al Management		Client #:					
Address: 7 Winchester Court			Job Cont	tact: Ted S	Shultz			
Mauldin, SC 29662			Email: ts	hultz@ap	ex-ehs			
			Tel: 864-	404-3210				
Project Name: 124 Georgia St			Fax:					
Project ID #: 0815-163			P.O. #:					
10,000 12 11. 0010 100			11 .0. 11.					
								,
ASBESTOS	METHOD	4 HR*	8 HR*	24 HR	2 DAY	3 DAY	5 DAY	
PLM BULK	EPA 600							
TEM BULK	CHATFIELD							
PLM POINT COUNT (400)	EPA 600							
PLM POINT COUNT (1000)	EPA 600							
PLM GRAVIMETRIC	EPA 600							
PLM GRAV w POINT COUNT	EPA 600							
OTHER:								
POSITIVE STOP ANALYSIS]				
SOUTH CAROLINA SAMPLES	A TRAIN MANAGEMENT							
· A								
TEM INSTRUCTIONS								
BEGIN TEM ANALYSIS AFTER	NEGATIVE PLM			1 . 7				
ANALYZE TEM SAMPLES SIM	ULTANEOUSLY WITH	PLM						
			,			ķ.		
REMARKS: If needed, co		om the sa	me group	o to achi	eve			
sufficient weight for TEM	analysis.			3 14 15				
								-
								Samples
				A. Charles			Reject	Samples
Relinquished By	/: Da	ate/Time		Receiv	ved By:		Date	/Time
Nick Neerhof	7/18/2	2016	V	0 11			abal.	9:45AM
			14	וסנעייו		19,000	7/19/16	1.73AM
			E	MSLFK	8989 8	875 2066		
*Call to confirm BUSH analysis			e.	mnlee wil	l he diene	end of 20	days after	analysis







COMPANY CONTACT INFORMATION					
Company: Apex Env. Mgmt.	Job Contact: Ted Shultz				
Project Name: 124 Georgia St					
Project ID #: 0815-163	Tel:803-404-3210				

SAMPLE ID#	DESCRIPTION / LOCATION		TEST	
1		PLM	тем 🗆	
2	Kitchen/ two layers of self stick tile under wood	PLM I	тем 🗆	
3		PLM	TEM 🔼	
4	Dethan and those levers of self-stick tile with	PLM I	тем 🗆	
5	Bathroom/ three layers of self stick tile with linoleum under wood	PLM	TEM 🗆	
6		PLM [TEM .	
		PLM I	тем 🗆	
8	Back room/ Green sheet flooring	PLM I	тем 🗆	
9		PLM [TEM 🔳	
10		PLM I	TEM 🗆	
11	Left Room/ Plaster	PLM I	тем 🗆	
12	Company of the second of the s	PLM I	TEM 🗆	
13 14		PLM	тем 🗆	
	Back room/ drywall with joint compound	PLM I	тем 🗆	
15		PLM I	тем 🗆	
16	And the second of the second o	PLM	тем 🗆	
17	Exterior/ Window Glazing	PLM I	тем 🗆	
18		PLM [TEM 🔳	
19		PLM I	тем 🗆	
20	Exterior roof/ Shingles(4) and Felt(1)	PLM I	тем 🗆	
21		PLM [TEM	
		PLM [тем 🗆	
		PLM [тем 🗆	
		PLM [тем 🗆	
		PLM [тем 🗆	
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		PLM [тем 🗆	
		PLM [тем 🗆	
		PLM [тем 🗆	
		PLM [тем 🗆	

Page ___2__of __2__

SECTION IV

Photographs



Photo 1 -- 124 Georgia Street Spartanburg, SC.



Photo 2- Two layers of self-stick tile under wood in the kitchen.



Photo 3 – Three layers of self-stick tile, under linoleum and wood in the bathroom.



Photo 4 – Green sheet flooring in the back room.



Photo 5 - Plaster with skim coat walls in the left room.



Photo 6 – Drywall with joint compound in the back room.



Photo 7 - Window glazing on the exterior windows.



Photo 8 - Four layers of shingles and a layer of felt on the pitched wooden roof.

SECTION V

SC Asbestos Inspector License



Tedman K Shultz 201 Cannon Circle Greenville, SC 29607

110723

North Carolina Asbestos Accreditation

EXPIRATION							
DOB	SEX	HT	WT				
03-16-1972	М	5'10"	270				
CLASS		#	EXP				
AIR MONITOR		80864	02-17				
INSPECTOR		12900	01-17				

SCDHEC ISSUED

Asbestos ID Card

Tedman K Shultz

Expiration Date



AIRSAMPLER AS-00355 02/02/17 CONSULTBI BI-00971 01/20/17

Appendix II

SC DHEC Asbestos Inspector License



Tedman K Shultz



CONSULTBI BI-00971 AIRSAMPLER AS-00355 Expiration Date: 01/14/21 03/06/20

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