



Asbestos & Lead Based Paint Assessment

City of Spartanburg
444 Tryon Street
Spartanburg, South Carolina

Prepared for:

The City of Spartanburg
201 Caulder Avenue
Spartanburg, South Carolina

Prepared by:

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

Project Number: 0815-163

September 16, 2015





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SERVICES

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- Hazard Communication

Apex Project Number 0815-163

September 16, 2015

Mr. Demian Carpenter
City of Spartanburg
P.O. Box 1749
Spartanburg, South Carolina 29304

Reference: Asbestos and Lead-Based Paint Assessment Services
444 Tryon Street
Spartanburg, South Carolina

Dear Mr. Carpenter:

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.

Rebecca W. Shultz, CIH, CSP
President

Appendices

ASBESTOS AND LEAD BASED PAINT ASSESSMENT

**CITY OF SPARTANBURG
444 TRYON STREET
SPARTANBURG, SOUTH CAROLINA**

APEX PROJECT NO. 0414-92

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SECTION I

Asbestos & Lead Evaluation Report

ASBESTOS/LEAD EVALUATION REPORT
APEX PROJECT NUMBER: 0815-613

Date: 9/16/2015 Page Number: 1 of 3

Client: City of Spartanburg Client Contact: Mr. Demian Carpenter
 Client Address: 201 Caulder Avenue Client Phone Number:
 Spartanburg, SC 29304

Project: Asbestos and Lead Evaluation

Property Address: 444 Tryon Street
 Spartanburg, SC

Assessor: Thomas H. Oliver Date of Assessment: 8/31/2015
 Company: Apex Environmental Management Phone Number:
 7 Winchester Court

Mauldin, SC 29662

Purpose of Assessment: Demolition Age of Structure: Approx. 50 years

Residential Number of Stories: 1

Foundation: Crawlspace Approximate Square Footage: 1,700 SF

EXTERIOR BUILDING MATERIALS

Transite Siding w/ felt
 Wood windows w/ caulk
 Metal w/ tar roof on original structure
 2 layers of shingles w/ felt on shed

INTERIOR BUILDING MATERIALS

Plaster w/ finish
 Wood floors
 Carpet
 Vinyl floor in closet
 Drywall no Joint Compound
 Wood composite ceiling tile

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. Twenty-Six (26) 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). EMSL participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Their NVLAP accreditation number is Charlotte 200841-0. 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). Seven (7) 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 as a material containing more than one percent asbestos. Provided below is a general discussion of the asbestos containing materials identified in the residence. Specific *PLM* and *TEM* tables are located in Tables 1 and 2 of this report and identify positive materials and designate approximate quantities.

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

- Tar on metal roof.
- 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, SCDHEC defines LBP as paint containing in excess of, or equal to, 0.7mg/cm³. 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:

- White wood siding
- White wood window frame
- White bead board porch ceiling
- White wood door frame
- White wood porch header
- White wood trim
- White plaster wall
- White bead board walls/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:

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 South Carolina Department of Health and Environmental Control (SCDHEC) define LBP as paint containing greater than 0.7 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

Tables

ASBESTOS SURVEY FIELD DATA SHEET

Project Name: 444 Tryon Street COS

Sampled By: Thomas Oliver

Project Location: Spartanburg, SC

Project Manager: Thomas Oliver

Project Number: 0815-163

Date: 8/31/2015

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	Exterior	Transite and Felt	10% Chrysotile (Siding Only)	Non-Friable	Good	4,000 SF
2						
3						
4	Throughout	Plaster and Finish	NAD	Friable	Good	4,000 SF
5						
6						
7						
8	Bedroom Closet	Black Vinyl Flooring	NAD	Non-Friable	Good	10 SF
9						
10						
11	Throughout	Drywall and Joint Comppound	NAD	Friable	Good	500 SF
12						
13						
14	Windows	Window Caulk	NAD	Non-Friable	Good	5 ea
15						
16						
17	Roof On Addition	Shingles no Felt	NAD	Non-Friable	Good	500 SF
18						
19						
20	Shed	Shingles w/ 2 Layers & Felt	NAD	Non-Friable	Good	144 SF
21						
22						
23	Roof	Tar on Metal Roof	4% Chrysotile	Non-Friable	Good	1,000 SF
24						
25						
26						

**FIELD DATA SHEET
LBP ANALYSIS**

Project Name: COS 444 Tryon Street

Sampled By: Thomas Oliver

Project Location: Spartanburg SC

Project Manager: Thomas Oliver

Project Number: 0815-163

Date: 9/1/2015

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)
76	Exterior	Siding	Light Blue	Brick	0.01
77	Exterior	Siding	White	Wood	4.57
78	Exterior	Window Frame	White	Wood	2.44
79	Exterior	Porch Ceiling	White	Wood	1.26
80	Exterior	Door Frame	White	Wood	3.00
81	Exterior	Porch Header	White	Wood	1.94
82	Exterior	Trim	White	Wood	1.52
83	Exterior	Foundation	Blue	Wood	0.01
84	Interior	Wall	Blue	Drywall	0.00
85	Interior	Door Frame	Tan	Drywall	0.10
86	Interior	Door	Tan	Wood	0.09
87	Interior	Baseboard	Tan	Drywall	0.14
88	Interior	Window Frame	Tan	Wood	,13
89	Interior	Window	Tan	Wood	0.24
90	Interior	Wainscotting	White	Wood	0.15
91	Interior	Baseboard	White	Brick	0.18
92	Interior	Wainscotting	Tan	Wood	0.37
93	Interior	Window Frame	White	Wood	0.25
94	Interior	Window	White	Wood	0.19
96	Interior	Fireplace Mantel	Tan	Wood	0.01
97	Interior	Fireplace Mantel	White	Wood	0.17
98	Interior	Door Frame	White	Wood	0.14
99	Interior	Door	White	Drywall	0.16
100	Interior	Walls/ Ceiling	White	Drywall	3.15

SECTION III

Laboratory Analytical Results



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:	411506248
CustomerID:	AXEM25
CustomerPO:	
ProjectID:	COS - Spartanburg

Attn: **Rebecca Shultz**
Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

Phone: (864) 640-5274
 Fax:
 Received: 09/03/15 8:45 AM
 Analysis Date: 9/6/2015
 Collected: 8/31/2015

Project: 0815-163/ COS - 444 Tryon St., Spartanburg, SC

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-Transite 411506248-0001	Exterior - Transite & Felt	Gray/White Fibrous Homogeneous		5% Ca Carbonate 85% Non-fibrous (other)	10% Chrysotile
1-Felt 411506248-0001A	Exterior - Transite & Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
2-Transite 411506248-0002	Exterior - Transite & Felt				Stop Positive (Not Analyzed)
2-Felt 411506248-0002A	Exterior - Transite & Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
3-Transite 411506248-0003	Throughout - Transite & Felt				Stop Positive (Not Analyzed)
4-Skim Coat 411506248-0004	Throughout - Plaster & Finish	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (other)	None Detected
4-Rough Coat 411506248-0004A	Throughout - Plaster & Finish	Brown/Gray Fibrous Homogeneous	<1% Cellulose	20% Quartz 5% Ca Carbonate 75% Non-fibrous (other)	None Detected
5-Skim Coat 411506248-0005	Throughout - Plaster & Finish	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (other)	None Detected

Limited sample submitted, result cannot be verified

Analyst(s)
 Erin Guzowski (17)
 Maria Cao (12)

Lee Plumley, Laboratory Manager
 or other approved signatory

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

Initial report from 09/08/2015 13:17:19



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376 Crompton Street, Charlotte, NC 28273

Phone/Fax: (704) 525-2205 / (704) 525-2382

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Project: 0815-163/ COS - 444 Tryon St., Spartanburg, SC	

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
5-Rough Coat 411506248-0005A	Throughout - Plaster & Finish	Brown/Gray Fibrous Homogeneous	<1% Cellulose <1% Hair	30% Quartz 5% Ca Carbonate 65% Non-fibrous (other)	None Detected
6-Skim Coat 411506248-0006	Throughout - Plaster & Finish	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (other)	None Detected
6-Rough Coat 411506248-0006A	Throughout - Plaster & Finish	Brown/Gray Fibrous Homogeneous		25% Quartz 5% Ca Carbonate 70% Non-fibrous (other)	None Detected
7-Skim Coat 411506248-0007	Throughout - Plaster & Finish	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (other)	None Detected
7-Rough Coat 411506248-0007A	Throughout - Plaster & Finish	Tan Non-Fibrous Homogeneous	<1% Cellulose	30% Quartz 5% Ca Carbonate 65% Non-fibrous (other)	None Detected
8-Skim Coat 411506248-0008	Throughout - Plaster & Finish	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (other)	None Detected
8-Rough Coat 411506248-0008A	Throughout - Plaster & Finish	Gray Non-Fibrous Homogeneous		20% Quartz 5% Ca Carbonate 75% Non-fibrous (other)	None Detected

Analyst(s)
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 Maria Cao (12)

Lee Plumley, Laboratory Manager
 or other approved signatory

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 Collected: 8/31/2015

Project: 0815-163/ COS - 444 Tryon St., Spartanburg, SC

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
9 411506248-0009	Bedroom Closet - Black Roll Vinyl Floor	Gray/White/Black Fibrous Homogeneous	5% Cellulose 1% Glass	94% Non-fibrous (other)	None Detected
10 411506248-0010	Bedroom Closet - Black Roll Vinyl Floor	Black Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (other)	None Detected
12 411506248-0011	Throughout - Drywall	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
13 411506248-0012	Throughout - Drywall	Gray Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (other)	None Detected
14 411506248-0013	Throughout - Drywall	Brown/Gray Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
15 411506248-0014	Windows - Window Caulk	Tan/White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (other)	None Detected
16 411506248-0015	Windows - Window Caulk	Tan Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
18-Black Shingle 411506248-0016	Roof on Addition - Shingles - No Felt	Black Fibrous Homogeneous	5% Glass	5% Quartz 10% Ca Carbonate 80% Non-fibrous (other)	None Detected

Analyst(s)

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Maria Cao (12)

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or other approved signatory

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
18-Gray Shingle 411506248-0016A	Roof on Addition - Shingles - No Felt	Gray/Black Fibrous Homogeneous	8% Glass	5% Quartz 10% Ca Carbonate 77% Non-fibrous (other)	None Detected
19-Black Shingle 411506248-0017	Roof on Addition - Shingles - No Felt	Gray/Black Fibrous Heterogeneous	8% Glass	10% Quartz 10% Ca Carbonate 72% Non-fibrous (other)	None Detected
19-Gray Shingle 411506248-0017A	Roof on Addition - Shingles - No Felt	Gray/Tan Fibrous Heterogeneous	8% Glass	10% Quartz 10% Ca Carbonate 72% Non-fibrous (other)	None Detected
21-Shingle 411506248-0018	Shed - 2 Layers Shingle, 1 Felt	Gray/Black Fibrous Homogeneous	10% Cellulose	5% Quartz 85% Non-fibrous (other)	None Detected
21-Felt 411506248-0018A	Shed - 2 Layers Shingle, 1 Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
22-Shingle 411506248-0019	Shed - 2 Layers Shingle, 1 Felt	White/Black Fibrous Heterogeneous	20% Cellulose	10% Quartz 5% Ca Carbonate 65% Non-fibrous (other)	None Detected
22-Felt 411506248-0019A	Shed - 2 Layers Shingle, 1 Felt	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected

Analyst(s)
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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
24 411506248-0020	Metal Roof - Roof Tar	Black Non-Fibrous Homogeneous		5% Ca Carbonate 91% Non-fibrous (other)	4% Chrysotile
25 411506248-0021	Metal Roof - Roof Tar				Stop Positive (Not Analyzed)

Analyst(s)

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Attn: **Rebecca Shultz**
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Mauldin, SC 29662

Phone: (864) 640-5274
 Fax:
 Received: 09/08/15 2:45 PM
 Analysis Date: 9/10/2015
 Collected: 8/31/2015

Project: **0815-163/ COS - 444 Tryon St., Spartanburg, SC**

**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-Felt 411506248-0022	Exterior - Transite & Felt	Black Fibrous Homogeneous	100	None	<0.1% Chrysotile
11 411506248-0023	Bedroom Closet - Black Roll Vinyl Floor	Black/Beige Fibrous Homogeneous	100	<0.1 Fibrous (other)	No Asbestos Detected
17 411506248-0024	Windows - Window Caulk	Tan/White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
20-Black Shingle 411506248-0025	Roof on Addition - Shingles - No Felt	Black Fibrous Homogeneous	98.1	1.6 Fibrous (other)	0.27% Chrysotile
20-Gray Shingle 411506248-0026	Roof on Addition - Shingles - No Felt	Gray/Black Fibrous Homogeneous	99.1	0.87 Fibrous (other)	No Asbestos Detected
23-Shingle 411506248-0027	Shed - 2 Layers Shingle, 1 Felt	White/Black Non-Fibrous Homogeneous	98.1	1.9 Fibrous (other)	No Asbestos Detected
23-Felt 411506248-0028	Shed - 2 Layers Shingle, 1 Felt	Black Fibrous Homogeneous	99.8	0.23 Fibrous (other)	No Asbestos Detected

Analyst(s)
 Aaron Hartley (7)

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. Charlotte, NC

Initial report from 09/11/2015 08:08:45



Asbestos Bulk Building Material Chain of Custody

Charlotte, NC 28273

PHONE: (704) 525-2205

FAX: (704) 525 2382

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Order Number (Lab Use Only):

411506248

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: United States
Report To (Name): Rebecca Shultz		Telephone #: 864-404-3210	
Email Address: rshultz@apex-ehs.com		Fax #:	Purchase Order:
Project Name/Number: 0815-163 COS 444 Tryon St		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.

PLM - Bulk (reporting limit)	TEM - Bulk
<input type="checkbox"/> PLM EPA 600/R-93/116 (<1%)	<input checked="" type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1
<input type="checkbox"/> PLM EPA NOB (<1%)	<input type="checkbox"/> NY ELAP Method 198.4 (TEM)
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<input type="checkbox"/> Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2
<input type="checkbox"/> NIOSH 9002 (<1%)	<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique
<input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)	<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique
<input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)	Other
<input type="checkbox"/> OSHA ID-191 Modified	<input type="checkbox"/> 444 Tryon St. Spartanburg, SC
<input type="checkbox"/> Standard Addition Method	

Check For Positive Stop - Clearly Identify Homogenous Group Date Sampled: 8-31-15

Samplers Name: Tom Oliver Samplers Signature: *[Signature]*

Sample #	HA #	Sample Location	Material Description
1		exterior	transite + felt
2			
3			
4		Through out	Plaster + finish
5			
6			
7			
8			
9		Bed room closet	Blk roll vinyl floor
10			

Client Sample # (s): 1 - 26 Total # of Samples: 26

Relinquished (Client): *[Signature]* Date: 9-2-15 Time: 9:30 am

Received (Lab): *[Signature]* Date: 9/3/15 Time: 8:45 AM EMSL FL

Comments/Special Instructions: 7950 2272 6849

SECTION IV

Photographs



Photo 1 -- Front Elevation



Photo 2 – Metal and Shingle Roofing



Photo 3 – Exterior Shed



Photo 4 –Shed Shingle Siding



Photo 5 – Composite Wood Ceiling Tiles



Photo 6 – Plaster Wall



Photo 7 – Closet Vinyl Flooring



Photo 8 – Drywall with No Joint Compound in Addition Area.



Photo 9 – Cement Board Siding with Felt



Photo 10 Assumed Chimney Tar and Metal Roof Tar



Photo 11 – Window Caulk

SECTION V

SC Asbestos Inspector License

SCDHEC ISSUED
Asbestos ID Card

Thomas H Oliver



CONSULTBI
AIRSAMPLER

Expires
BI-00680 01/21/16
AS-00202 01/16/16

This card is nontransferable and invalid if loaned or given to another person for identification. This card will also be invalid if altered or defaced. This card is property of SCDHEC. It must be returned to the Department if the holder's accreditation is revoked or if this card is invalidated. Any person performing regulated asbestos activities without current accreditation shall be subject to legal sanction. This card must be returned upon expiration and/or issuance of a new card.

YOU MUST HAVE THIS IDENTIFICATION CARD WITH YOU ON THE JOB.

For information or corrections contact: SCDHEC - Asbestos Section
2600 Bull Street
Columbia, SC 29201
(803) 898-4289