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## SERVICES

Indoor Air Quality

Mold Remediation

Asbestos & Lead

Industrial Hygiene

Worker Health & Safety

Mold Consulting

Moisture Management Plans

Safety Assessment

Environmental Site Assessments

> Hazard Communication

Martin L. Livingston, Jr., AICP, CPM Neighborhood Services Director City of Spartanburg PO Box 1749 Spartanburg, SC 29304

Reference: Asbestos Assessment Services Cammie Clagett Courts Phase 2 - 9 Buildings (42 Units) Highland Street Area Spartanburg, South Carolina

Dear Mr. Livingston:

Apex Environmental Management, Inc. (Apex) has completed asbestos containing materials assessment at the above-referenced property. The survey was limited in that demolition, such as jack/sledge hammering or cutting into walls, ceilings, floors, or structural members to expose possible concealed ACM was not performed. Included in this report is a summary of our field activities and the results obtained. Roof sampling was performed as part of this assessment. The objectives of the survey included the following:

- Identification of suspect asbestos-containing material (ACM) in readily observable locations. Limited demolition of building finishes was conducted in the building and associated exteriors included in the assessment.
- Asbestos survey with sample collection by South Carolina licensed inspectors.
- Suspect ACM analysis by polarized light microscopy (PLM) utilizing EMSL Analytical, Inc. (EMSL) 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.
- Presenting the results in a report identifying confirmed ACMs.

# **PROJECT INFORMATION**

Cammie Clagett Courts is a residential apartment community located in the Highland Street area of Spartanburg, South Carolina. The original construction is approximately in the early 1970's and includes a neighborhood administrative office building and thirty-seven (37) residential apartment

# Apex Project Number 0617-111

January 5, 2018

buildings. Apex was requested to perform asbestos assessment services on nine (9) residential buildings (42 units) during Phase 2 of the above referenced project. The apartment buildings include a one-story, one bedroom with one bathroom duplex, four (4) two-story, two and three bedroom with one bathroom 6-plexes and four(4) two-story, two and three bedroom with one bathroom 4-plexes.

The residential exterior building materials include caulks on the gable vents, windows and doors. The pitched wooden roofs and awnings consist of shingles, felt with black and gray mastic/tar and painted metal on the roof penetrations. Caulk on the awnings and roof flashing exists. Black caulk found on the exterior windows is the same black caulk found on portions of the interior windows. Red and gray wall penetration filler/mastic exists on the exterior brick walls and OSB board is located beneath vinyl siding and brick.

Interior building materials within the buildings include multiple types and layers of floor tile and mastic over concrete and beneath wood. Additionally, vinyl flooring with mastic exists above and beneath wood and beneath ceramic tile in a portion of the bathrooms. 12"x12" brown streaked floor tile with mastic exists beneath a top layer of 12"x12" tan speckled floor tile and mastic throughout the residences. The CMU block walls do not contain filler, and bathroom walls and ceilings consist of plaster with finish over unfinished drywall. Portions of bathroom walls were thicker plaster with finish with no unfinished drywall beneath. Drywall with joint compound and tape exists throughout the interior of the residences. Portions of walls and ceilings contain drywall, joint compound and tape patches. Additionally, multiple types of caulk exist within the bathrooms, kitchens, windows, HVAC closets and portions of the doors. HVAC mastic and tape exists within the HVAC closets and on ducts above the ceilings. Kitchen double sinks contain white and black coatings and wall backsplashes with mastic exist within the residences.

Apex observed two (2) separate layers of approximately ½ inch thick wooden acoustical board within the wall cavity of the drywall system along the shared walls of adjoining units. Portions of the wall systems throughout the buildings may not have wooden acoustical board within the wall cavities. Additionally, insulation and wooden composite board with and without felt paper was identified beneath the drywall wall systems along the exterior/perimeter walls of the buildings. The bottom layer of asbestos containing floor tiles and mastics located on the 2<sup>nd</sup> floor of the buildings exist underneath wooden sheet flooring. Asbestos containing floor tiles and mastics exist above wood and beneath ceramic tile and additional wood in a portion of the bathrooms.

#### METHODS

Apex was requested to perform a limited asbestos assessment to identify asbestos-containing materials (ACM) which could be disturbed prior to or during scheduled demolition activities. The National Emission Standard for Hazardous Air Pollutants (NESHAP) requires the identification of friable ACM and non-friable ACM likely to become friable during demolition and/or renovation activities. NESHAP requires that the identified ACM be removed prior to initiating activities likely to disturb the ACM.

As per AHERA regulations, bulk asbestos samples were collected from random locations of each homogeneous area, with the material's number of samples based upon the following criteria:

- Thermal Insulation Materials (piping, breeching, boiler insulation, etc.) A minimum of three (3) samples are required. Only patch areas (less than 6 square or linear feet) may have one (1) sample collected.
- Surfacing Materials (plaster, fireproofing, sheetrock and joint compound, etc.) A minimum of seven (7) samples are to be taken for areas greater than 5,000 square feet; five (5) for areas greater than 1,000 square feet, but less than 5,000 square feet; three (3) for areas less than 1,000 square feet.
- Miscellaneous Materials (flooring, adhesives, roofing, floor tiles, etc.) A minimum of three (3) samples are required.
  - If samples of non-friable organically bound (NOB) materials were collected and reported by the laboratory to contain less than 1% asbestos by PLM, these materials were re-analyzed in accordance with SCDHEC requirements for NOB's by transmission electron microscopy (TEM).

The asbestos survey was performed by Mr. Tom Oliver (SC DHEC asbestos inspector license # BI-00680, exp. 01/18/2018), Mr. Ted Shultz (SC/DHEC inspector license # BI-00971, exp. 01/18/2018), from April 25<sup>th</sup> to 26<sup>th</sup>, 2017 and November 29<sup>th</sup> to December 1<sup>st</sup>, 2017. The survey consisted of observing the accessible areas throughout the interiors, exteriors and roofs of the Cammie Clagett Court residential buildings slated for demolition activities for the presence of suspect materials which may contain asbestos. The survey involved detecting both friable materials (materials which can be crumbled, pulverized or reduced to a powder by hand pressure when dry) and non-friable materials (materials which pose a hazard when sawn, sanded, drilled or pulverized). Homogeneous materials (based on material type, color, texture, etc.) were identified in various functional spaces during the survey.

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. Six hundred twenty-four (624) 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 200841-0. Due to EPA regulations, samples are split into homogeneous layers and each layer is analyzed separately. Six hundred ninety-three (693) 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). Two hundred-six (206) samples were analyzed using TEM.

## RESULTS

The EPA defines an asbestos-containing material (ACM) as a material containing greater than 1% asbestos. OSHA defines ACM as a material containing detectable amount of asbestos. Multiple materials were analyzed to contain less than 1% asbestos and it should be noted that OSHA asbestos regulations will apply. The *Asbestos PLM & TEM Data Table* is provided in Appendix II. The following materials identified to contain asbestos at greater than 1% include:

	Building # 1					
Units 440, 442, 444, 446, 448, 450 - Two Story; Two & Three Bedroom; One Bathroom						
Sample #	Location of ACM	Description of ACM	Estimated Quantities			
1-7	440 442, 444, 448 & 450 throughout interiors	Drywall with Joint Compound and Tape	11,665 SF			
9-13	446 throughout interiors	Drywall with skim coat & tape	2,335 SF			
55-57	440, 442, 444, 448 & 450 throughout except in bathrooms & HVAC closets; 446 throughout except in HVAC closet	12" x 12" brown streaked floor tile & mastic (bottom layer)	4,650 SF			
58-60	440 & 448 kitchens (double sinks)	Black sink coating	2 EA			
76-78	Doors	Door caulk	12 EA			
94-96	Roof gable vents	Caulk	2 EA			
100-102	Roof penetrations	Black/gray mastic	4 SF			

	Building # 2					
Units 410, 412, 414, 416, 418, 420 - Two Story; Two & Three Bedroom; One Bathroom						
Sample #	Sample # Location of ACM Description of ACM					
4-6	Doors	Door caulk	12 EA			
10-13	410, 414, 418, 420 kitchens (double sinks)	Black sink coating	4 EA			
14-16	410, 412, 414, 416, 418, 420 throughout downstairs except in HVAC closets	12" tan floor tile & mastic (bottom layer)	2,315 SF			
17-19	410, 412, 414, 416, 418, 420 throughout upstairs except in bathrooms	12" x 12" grey floor tile & mastic (bottom layer)	2,315 SF			
20-22	418 & 420 HVAC closets	Brown HVAC mastic	15 LF			
23-29	410, 412, 414, 416, 418, 420 throughout interiors	Drywall with joint compound and tape	14,000 SF			
39-41	418 kitchen stove backsplash	Wall covering under stove backsplash	5 SF			
100-102	Roof penetrations	Black/gray mastic	4 SF			

Building # 3						
Units 350	Units 350, 352, 354, 356, 358, 360 - Two Story; Two & Three Bedroom; One Bathroom					
Sample #	Sample # Location of ACM Description of ACM					
7-9	Door	Door caulk	12 EA			
10-12	All kitchens (double sinks)	Black sink coating	6 EA			
19-25	350, 352, 354, 356, 358, 360 throughout interiors	Drywall with joint compound and tape	14,000 SF			
26-28	350, 352, 354, 356, 358, 360 throughout downstairs except in HVAC closets	12" x 12" cream floor tile & mastic (bottom layer)	2,315 SF			
29-31	350, 352, 354, 356, 358, 360 throughout upstairs except in bathrooms	12" x 12" brown floor tile & mastic (bottom layer)	2,315 SF			
83-85	Roof penetrations	Black/grey mastic/tar	4 SF			

Building # 4					
Units	Units 351, 353, 355, 357 - Two Story; Two & Three Bedroom; One Bathroom				
Sample #         Location of ACM         Description of ACM         Estimate					
1-7	351, 353, 355, 357 throughout interiors	Drywall with joint compound and tape	12,000 SF		
12-14	351 to 357 throughout except in bathrooms & HVAC closets	12" x 12" brown streaked floor tile & mastic (bottom layer)	3,525 SF		
33-35	353 & 355 kitchens (double sinks)	Black sink coating	2 EA		
69-71	Roof penetrations	Black/grey mastic/tar	4 SF		

Building # 5					
Units 361	Units 361, 363, 365, 367 - Two Story; Two & Three Bedroom; One Bathroom				
Sample #         Location of ACM         Description of ACM         Estim Quant					
1-7	361, 363, 365, 367 throughout interiors	Drywall with joint compound and tape	12,000 SF		
12-14	361 to 367 throughout except in bathrooms & HVAC closets	12" x 12" brown streaked floor tile & mastic (bottom layer)	3,525 SF		
24-26	Kitchens (double sinks)	Black sink coating	4 EA		
57-59	Roof penetrations	Black/grey mastic/tar	4 SF		

	Building # 6					
Units 350	Units 350, 352, 354, 356 - Two Story; Two & Three Bedroom; One Bathroom					
Sample #	Sample #         Location of ACM         Description of ACM         E					
1-7	350, 352, 354, 356 throughout interiors	Drywall with joint compound and tape	12,000 SF			
15-17	356 throughout except in bathroom & HVAC closet	12" x 12" cream floor tile & mastic (bottom layer)	885 SF			
27-29	350 & 352 kitchens (double sink)	Black sink coating	2 EA			
63-65	Roof penetrations	Black/grey mastic/tar	4 SF			
Assumed	350 to 354 throughout except bathrooms & HVAC closets	12" x 12" brown streaked floor tile and mastic (bottom layer)	2,640 SF			

Building # 36					
Units 410	Units 410 ,412, 414, 416 - Two Story; Two & Three Bedroom; One Bathroom				
Sample #         Location of ACM         Description of ACM         Estimate					
1-7	410,412, 414, 416 throughout interiors	Drywall with joint compound and tape	12,000 SF		
28-30	414 & 416 kitchens (double sinks)	Black sink coating	2 EA		
Assumed	410 to 416 throughout except bathrooms & HVAC closets	12" x 12" brown streaked floor tile and mastic (bottom layer)	3,525 SF		

Building # 37					
Units 415 & 417 - One Story; One Bedroom; One Bathroom					
Sample # Location of ACM Description of ACM Estimated Quantities					
1-5	415 & 417 throughout interior	Drywall with joint compound and tape	3,400 SF		
12-14	Kitchens (double sinks)	Black sink coating	2 EA		
36-38	Doors Door caulk		4 EA		
Assumed	Assumed 415 & 417 throughout 12" x 12" brown streak except for HVAC closets tile and mastic (bottor		1,000 SF		

Building # 38						
Units 420, 422	Units 420, 422, 424, 426, 428, 430 - Two Story; Two & Three Bedroom; One Bathroom					
Sample #         Location of ACM         Description of ACM         Estimate						
1-7	420, 422, 424, 426, 428, 430 throughout interiors					
16-18	420 kitchen	12" x 12" cream floor tile & mastic (bottom layer)	215 SF			
19-21	420 2nd floor hallway	420 2nd floor hallway 12" x 12" beige floor tile & mastic (bottom layer)				
39-41	Kitchens (double sinks)	Black sink coating	6 EA			
Assumed	420 to 430 throughout except in bathrooms & HVAC closets	12" x 12" brown streaked floor tile and mastic (bottom layer)	4,370 SF			

#### **RECOMMENDATIONS AND DISCUSSION**

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.

Please note that this document is not a specification for asbestos removal. It does not contain means and methods for asbestos abatement. If you are planning an asbestos 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. Quantities provided in this report are estimated. Contractors must verify material amounts prior to bidding or removal.

This report summarizes our evaluation of the conditions observed at the site. The findings prepared by Apex are based upon testing performed within the Cammie Clagett Courts Apartment Community located at 422 Concord Avenue in Spartanburg, South Carolina. Our assessment procedures and recommendations are based on the guidelines presented in EPA, State of South Carolina or OSHA asbestos regulations.

# 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.

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 Director of Operations

Rebecca W. Shultz, CIH, CSP President

Appendix I Photographic Log

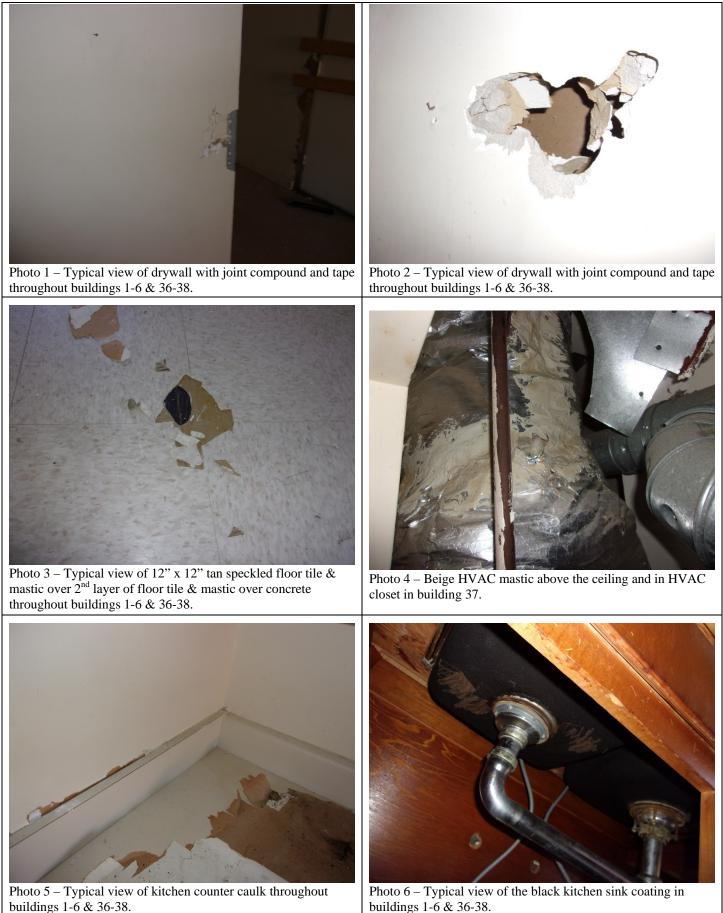
Appendix II Asbestos PLM & TEM Data Tables

- Appendix III Site Overview with Building Numbers & Unit Cross-Section Drawing
- Appendix IV Laboratory Results & Chain of Custody

Appendix V SC DHEC Asbestos Inspector Licenses

APPENDIX I

PHOTOGRAPHIC LOG



buildings 1-6 & 36-38.



Photo 7 – Typical view of the bathroom sink caulk in buildings 1-6 & 36-38.



Photo 9 – Typical view of the roof shingles & felt on the main roof and awning roofs on buildings 1-6 & 36-38.

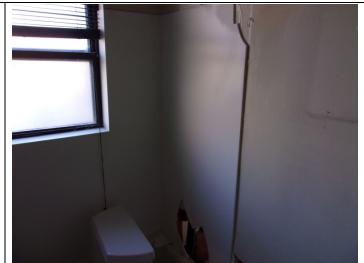


Photo 8 – Typical view of the shower stall caulk in buildings 1-6 & 36-38.



Photo 10 - Typical view of the paint coated roof vents on buildings 1-6 & 36-38.



Photo 11 – Typical view of black & black/gray mastic/tar on roof penetrations on buildings 1-6 & 36-38.



Photo 12 – Typical view of the black and brown interior and exterior window caulk in buildings 1-6 & 36-38.

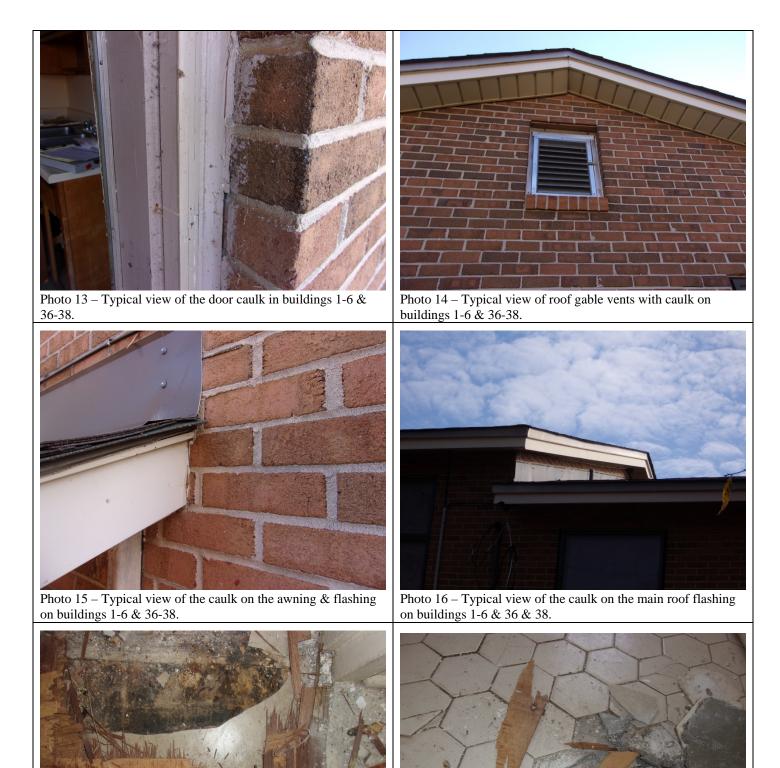


Photo 17 – Typical view of 12" x 12" tan speckled floor tile & mastic over 2<sup>nd</sup> layer of floor tile & mastic under wood throughout buildings 1-6 & 36-38.

Photo 18 – Typical view of ceramic tile with wood & vinyl flooring beneath throughout buildings 1-6 & 36-38.



Photo 19 – Typical view of HVAC tape & mastic above the ceilings throughout buildings 1-6 & 36 & 38.



Photo 21 – Typical view of caulk on the HVAC units throughout the HVAC closets in buildings 1-6 & 36-38.



Photo 20 – Typical view of vinyl flooring & mastic in portions of the buildings (no ceramic tile exists).



Photo 22 – Typical view of caulk on the HVAC units throughout the HVAC closets in buildings 1-6 & 36-38.



Photo 23 – Typical view of 12"x12" brown streaked floor tile and mastic (bottom layer) assumed positive in Buildings 7 to 35.



Photo 24 – Typical view of a 2-story; 2 & 3 bedrooms; 1 bathroom; 6-plex apartment building.



APPENDIX II

ASBESTOS PLM & TEM DATA TABLES

Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Project Number: 0617-111

Unit Numbers:440, 442, 444, 446, 448, 450

Date: 4/26/2017 & 11/30/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1						
2						
3	440 442, 444, 448 & 450 throughout	Drawell with joint				
4	440 442, 444, 446 & 450 throughout interiors	Drywall with joint compound and tape	PLM - 2% Chrysotile	Friable	Good	11,665 SF
5						
6						
7						
8		SAMPLE NUME	BER NOT USED			
9						
10						
11	446 Throughout interiors	Drywall with skim coat & tape	PLM - 2% & 3% Chrysotile	Friable	Good	2,335 SF
12						
13						
14						
15		Discharge (the finish second				
16	Bathrooms	Plaster with finish over unfinished drywall	PLM - NAD	Friable	Good	1,300 SF
17						
18						
19			PLM - NAD			
20	Bathrooms	Mastic under shower stall		Non-Friable	Good	35 SF
21			TEM - NAD			
22			PLM - NAD			
23	Kitchens	Kitchen counter caulk		Non-Friable	Good	90 LF
24	]		TEM - NAD			

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## Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers:440, 442, 444, 446, 448, 450

Date: 4/26/2017 & 11/30/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
25			PLM - NAD			
26	HVAC closets	White HVAC caulk		Non-Friable	Good	40 LF
27			TEM - NAD			
28			PLM - NAD			
29	HVAC closets	Yellow HVAC caulk		Non-Friable	Good	40 LF
30			TEM - NAD			
31			PLM - NAD			
32	440, 444, 446, 448 & 450 bathrooms	Bathroom shower stall caulk		Non-Friable	Good	180 LF
33			TEM - NAD			
34			PLM - NAD	Non-Friable	Good	
35	442 bathroom	Bathroom shower stall caulk	FLIVI - NAD			35 LF
36			TEM - NAD			
37			PLM - NAD			
38	442 kitchen stove backsplash	Mastic under stove backsplash	PLM - NAD	Non-Friable	Good	5 SF
39		baokopiaon	TEM - NAD			
40			PLM - NAD			
41	442 throughout upstairs	Black cove base with tan mastic	PLIVI - NAD	Non-Friable	Good	125 LF
42		maono	TEM - NAD			
43		Mastic under stainless steel				
44	446 kitchen stove backsplash	stove backsplash on CMU	PLM - NAD	Non-Friable	Good	5 SF
45	]	block	TEM - NAD			
46						
47	446 bathroom	Black cove base with tan mastic	PLM - NAD	Non-Friable	Good	30 LF
48	]	masuc	TEM - NAD	1		

Building Number: 1

Project Number: 0617-111

#### Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers: 440, 442, 444, 446, 448, 450

Date: 4/26/2017 & 11/30/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
49			PLM - NAD		Good	
50	440 to 448 throughout interiors	Interior white window caulk		Non-Friable		11 EA
51-A			TEM - NAD			
51-B			PLM - NAD			
52	446 interior doors	Interior door caulk		Non-Friable	Good	2 EA
53			TEM - NAD			
54	440 to 448 throughout interiors	Interior white window caulk	PLM - NAD	Non-Friable	Good	Duplicate
55	440, 442, 444, 448 & 450 throughout except in bathrooms & HVAC closets; 446 throughout except in HVAC closet (bottom layer exists)	hout except in streaked floor tile & mastic (top) streaked floor tile & mastic	PLM - NAD (top layer tile & mastic); <b>3% chry</b>			
56			(bottom layer tile & mastic)	Non-Friable	Good	4,650 SF
57			TEM - NAD (top layer tile & mastic)			
58			PLM - 3% Chrysotile			
59	440 & 448 kitchens (double sinks)	Black sink coating		Friable	Good	2 EA
60						
61			PLM - NAD		Good	
62	442 front, middle & back bedrooms & upstairs hallway	12" x 12" grey speckled floor tile & adhesive (top layer)		Non-Friable		450 SF
63			TEM - NAD			
64						
65	442 bathroom	Grey square pattern vinyl floor with mastic	PLM - NAD	Non-Friable	Good	25 SF
66		noor with maste	TEM - NAD			
67						
68	442, 444, 446, 450 kitchens (double sinks)	White sink coating	PLM - NAD	Friable	Good	4 EA
69			TEM - NAD			

Building Number: 1

Project Number: 0617-111

#### Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers: 440, 442, 444, 446, 448, 450

Date: 4/26/2017 & 11/30/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
70		Grey stone square pattern	PLM - NAD			
71	446 bathroom	vinyl floor with no mastic		Non-Friable	Good	25 SF
72			TEM - NAD			
73		Cream square pattern vinyl	PLM - NAD		Good	25 SF
74	446 bathroom under wood	floor with felt paper & mastic		Non-Friable		
75			TEM - NAD			
76			PLM - <1% chry			
77	Doors	Door caulk		Non-Friable	Good	12 EA
78			<b>TEM - 7.7% chry</b>			
79			PLM - NAD			
80	Interior & exterior windows	Black window caulk		Non-Friable	Good	45 EA
81			TEM - NAD			
82			PLM - NAD			
83	Brick wall penetrations	Grey wall penetration mastic		Non-Friable	Good	2 SF
84			TEM - NAD			
85			PLM - NAD			
86	Main roof & awning roofs	Roof shingles (3) and felt (1)		Non-Friable	Good	4,250 SF
87			TEM - NAD			
88						
89		SAMPLE NUMB	ERS NOT USED	)		
90						
91			PLM - NAD			
92	Roof & awnings flashing	Awning/flashing caulk		Non-Friable	Good	200 LF
93			TEM - NAD			

Project Number: 0617-111

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#### Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers:440, 442, 444, 446, 448, 450

Date: 4/26/2017 & 11/30/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
94			PLM - NAD (beige); 3%			
95	Roof gable vents	Roof gable caulk (beige & grey)	chry (grey)	Non-Friable	Good	2 EA
96			TEM - NAD			
97		Paint coated metal			Good	
98	Roof vents		PLM - NAD	Non-Friable		5 SF
99						
100						
101	Roof penetrations	Black/grey mastic/tar	PLM - 3% chrysotile	Non-Friable	Good	4 SF
102						
103			PLM - NAD			
104	Above ceilings	Tan HVAC tape & mastic	PLIVI - NAD	Friable	Damaged	80 SF
105			TEM - NAD			
NAD = No Asbest	os Detected	LF = Linear Feet	EA = Each	Amos = Amosite		
Bold = Positive F	For Asbestos	SF = Square Feet	Chry = Chrysotile			

Project Number: 0617-111

#### Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers:410, 412, 414, 416, 418, 420

Date: 4/26/2017 & 11/30/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	-		PLM - NAD			
2	Interior windows	Black window caulk		Non-Friable	Good	45 EA
3			TEM - NAD			
4						
5	Doors	Door caulk	PLM - 3% chrysotile	Non-Friable	Good	12 EA
6						
7			PLM - NAD			
8	Kitchens	Kitchen counter caulk		Non-Friable	Good	90 LF
9			TEM - NAD			
10						
11	410, 414, 418, 420 kitchens (double sinks)	Black sink coating	PLM - 4% Chrysotile	Friable	Good	4 EA
13						
12		SAMPLE NUME	BER NOT USED			
14			PLM - NAD (top layer			
	410, 412, 414, 416, 418, 420	12" x 12" cream floor tile &	tile & mastic); 3% & 6%			
15	throughout downstairs except	mastic (top layer) over 12" x 12" tan floor tile & mastic	chry (bottom layer tile & mastic)	Non-Friable	Good	2,315 SF
16	in HVAC closets	(bottom layer)	TEM - NAD (top layer tile & mastic)	1		
17		12" x 12" cream speckled floor	PLM - NAD (top layer tile & mastic); <b>4% &amp; 6%</b>			
18	410, 412, 414, 416, 418, 420 throughout upstairs except in bathrooms	tile & mastic (top layer) over 12" x 12" grey floor tile &	chry (bottom layer tile & mastic)	Non-Friable	Good	2,315 SF
19	pathrooms	mastic (bottom layer)	TEM - NAD (top layer tile & mastic)			
20						
21	418 & 420 HVAC closets	Brown HVAC mastic	PLM - 5% chrysotile	Non-Friable	Good	15 LF
22	1					

Project Number: 0617-111

Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Project Number: 0617-111

Unit Numbers:410, 412, 414, 416, 418, 420

Date: 4/26/2017 & 11/30/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
23						
24						
25						
26	Throughout interiors	Drywall with joint compound and tape	PLM - 2% Chrysotile	Friable	Good	14,000 SF
27						
28						
29						
30			PLM - NAD	Friable	Good	
31	412 & 416 kitchens (double sinks)	White sink coating				2 EA
32			TEM - NAD			
33	Exterior windows		PLM - NAD			
34		Black window caulk		Non-Friable	Good	45 EA
35			TEM - NAD			
36		White mastic under stove backsplash	PLM - NAD	Non-Friable	Good	
37	414 kitchen stove backsplash					5 SF
38			TEM - NAD			
39						
40	418 kitchen stove backsplash	Wall covering under stove backsplash	PLM - 2% Chrysotile	Friable	Good	5 SF
41		buokopidon				
42	420 bathroom	Large square rock pattern vinyl floor with mastic	PLM - NAD	Non-Friable	Good	25 SF*
43						
44	SAMPLE NUMBERS NOT USED					
45			PLM - NAD	Non-Friable	Good	
46	420 bathroom	Mastic under shower stall				35 SF
47			TEM - NAD			

#### Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers:410, 412, 414, 416, 418, 420

#### Date: 4/26/2017 & 11/30/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
48			PLM - NAD			
49	412 bathroom	Large square tan stone pattern vinyl floor with mastic		Non-Friable	Good	25 SF
50			TEM - NAD			
51			PLM - NAD			
52	413 bathroom	Cove base with tan mastic		Non-Friable	Good	30 LF
53			TEM - NAD			
54			PLM - NAD	Friable	Good	
55	Bathrooms	Plaster with finish over unfinished drywall				1,300 SF*
56						
57	Bathrooms	Bathroom shower stall and sink caulk	PLM - NAD			
58				Non-Friable	Good	240 LF
59			TEM - NAD			
60			PLM - NAD	PLM - NAD		
61	Brick wall penetrations	Grey wall penetration mastic		Non-Friable	Good	2 SF
62			TEM - NAD			
63			PLM - NAD			
64	Above ceilings	Tan HVAC tape with no mastic		Friable	Damaged	80 SF
65			TEM - NAD			
66		Director with finite and				
67	Bathrooms	Plaster with finish over unfinished drywall	PLM - NAD	Friable	Good	Duplicate*
68						
69	420 bathroom	Large square rock pattern vinyl	PLM - NAD	Non-Friable	Good	Duplicate*
70	420 Datilioon	floor with mastic	TEM - NAD			

Building Number: 2

Project Number: 0617-111

Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Project Number: 0617-111

Unit Numbers:410, 412, 414, 416, 418, 420

Date: 4/26/2017 & 11/30/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
71			PLM - NAD			
72	Main roof & awning roofs	Roof shingles (3) and felt (1)		Non-Friable	Good	4,250 SF
73			TEM - NAD			
74						
75		SAMPLE NUMB	ERS NOT USED			
76						
77			PLM - NAD			
78	Roof & awnings flashing	Awning/flashing caulk		Non-Friable	Good	200 LF
79			TEM - NAD			
80		Roof gable caulk	PLM - NAD			
81	Roof gable vents			Non-Friable	Good	2 EA
82			TEM - NAD			
83						
84	Roof vents	Paint coated metal	PLM - NAD	Non-Friable	Good	5 SF
85						
86						
87	Roof penetrations	Black/grey mastic/tar	PLM - 3% chrysotile	Non-Friable	Good	4 SF
88						
NAD = No Asbest	os Detected	LF = Linear Feet	EA = Each	Amos = Amosite		
Bold = Positive F	For Asbestos	SF = Square Feet	Chry = Chrysotile			

#### Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers:350, 352, 354, 356, 358, 360

Date: 4/25/2017 & 12/1/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1			PLM - NAD			
2	Exterior windows	Black window caulk		Non-Friable	Good	45 EA
3			TEM - NAD			
4			PLM - NAD			
5	Interior windows	Black window caulk		Non-Friable	Good	45 EA
6			TEM - NAD			
7						
8	Doors	Door caulk	PLM - 2% chrysotile	Non-Friable	Good	12 EA
9						
10						
11	Kitchens (double sinks)	Black sink coating	PLM - 4% Chrysotile	Friable	Good	6 EA
12						
13			PLM - NAD			
14	Kitchens	Kitchen counter caulk		Non-Friable	Good	90 LF
15			TEM - NAD			
16			PLM - NAD			
17	Brick wall penetrations	Brown caulk		Non-Friable	Good	2 SF
18			TEM - NAD			
19						
20						
21	250 252 254 256 250 200					
22	350, 352, 354, 356, 358, 360 throughout interiors	Drywall with joint compound and tape	PLM - 2% Chrysotile	Friable	Good	14,000 SF
23						
24						
25						

Project Number: 0617-111

Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers: 350, 352, 354, 356, 358, 360

Project Number: 0617-111

Date: 4/25/2017 & 12/1/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
26	350, 352, 354, 356, 358, 360	12" x 12" tan speckled floor	PLM - NAD (top layer tile & mastic); 2% & 5%			
27	throughout downstairs except	tile & mastic (top layer) over 12" x 12" cream floor tile &	chry (bottom layer tile & mastic)	Non-Friable	Good	2,315 SF
28	in HVAC closets	mastic (bottom layer)	TEM - NAD (top layer tile & mastic)			
29		12" x 12" tan speckled floor	PLM - NAD (top layer tile & mastic); <b>2% &amp; 4%</b>			
30		tile & mastic (top layer) over 12" x 12" brown floor tile &	chry (bottom layer tile & mastic)	Non-Friable	Good	2,315 SF
31		mastic (bottom layer)	TEM - NAD (top layer tile & mastic)			
32						
33	350 upstairs bedroom	Drywall patch	PLM - NAD	Friable	Good	1 SF
34						
35						
36	Bathrooms	Bathroom shower stall and sink caulk	PLM - NAD	Non-Friable	Good	240 LF
37		Count	TEM - NAD			
38			PLM - NAD			
39	350 bathroom	Leveling compound & mastic under ceramic tile	PLW - NAD	Non-Friable	Good	25 SF
40	1		TEM - NAD			
41						
42		SAMPLE NUMB	ERS NOT USED			
43						
44			PLM - NAD			
45	HVAC closets	White HVAC mastic		Non-Friable	Good	40 LF
46	]		TEM - NAD			

Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Project Number: 0617-111

Unit Numbers: 350, 352, 354, 356, 358, 360

Date: 4/25/2017 & 12/1/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
47			PLM - NAD			
48	352 bathroom	Square stone pattern vinyl floor with no mastic		Non-Friable	Good	25 SF
49			TEM - NAD			
50						
51		SAMPLE NUMBI	ERS NOT USED			
52						
53			PLM - NAD			
54	Kitchens (double sinks)	White sink coating		Friable	Good	6 EA
55			TEM - NAD			
56			PLM - NAD			
57	Brick wall penetrations	Grey wall penetration mastic		Non-Friable	Good	2 SF
58			TEM - NAD			
59		Stone pattern vinyl floor with no mastic	PLM - NAD Non-F		Good	25 SF
60	360 bathroom			Non-Friable		
61			TEM - NAD			
62						
63	Bathrooms	Plaster with finish	PLM - NAD	Friable	Good	1,300 SF*
64						
65			PLM - NAD			
66	Above ceilings	Tan HVAC tape & mastic		Friable	Damaged	80 SF
67			TEM - NAD			
68		Roof shingles (3) and felt (1)	PLM - NAD	Non-Friable	Good	4,250 SF
69	Main roof & awning roofs					
70			TEM - NAD			

Building Number: 3

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Project Name: Cammie Clagett Housing Complex ACM Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Project Number: 0617-111

Unit Numbers: 350, 352, 354, 356, 358, 360

Date: 4/25/2017 & 12/1/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
71						
72		SAMPLE NUMB	ERS NOT USED			
73						
74			PLM - NAD			
75	Roof & awnings flashing	Awning/flashing caulk	PLIVI - INAD	Non-Friable	Good	200 LF
76			TEM - NAD			
77			PLM - NAD			
78	Roof gable vents	Roof gable caulk		Non-Friable	Good	2 EA
79			TEM - NAD			
80						
81	Roof vents	Paint coated metal	PLM - NAD	Non-Friable	Good	5 SF
82						
83						
84	Roof penetrations	Black/grey mastic/tar	PLM - 3% chrysotile	Non-Friable	Good	4 SF
85						
86						
87	Bathrooms	Plaster with finish with unfinished drywall beneath	PLM - NAD	Friable	Good	Duplicate*
88						
NAD = No Asbest	os Detected	LF = Linear Feet	EA = Each	Amos = Amosite		
Bold = Positive F	or Asbestos	SF = Square Feet	Chry = Chrysotile			

Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Project Number: 0617-111

Building Number: 4

Unit Numbers: 351, 353, 355, 357

Date: 4/26/2017 & 11/30/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1						
2						
3	351, 353, 355, 357	Drywall with joint			Good	12,000 SF
4	throughout interiors	compound and tape	PLM - 2% & 3% Chrysotile	Friable		
5						
6						
7						
8				Friable	Good	
9	Bathrooms	Plaster with finish over	PLM - NAD			900 SF
10	Datilioonis	unfinished drywall		Thable		
11						
12	351 to 357 throughout		PLM - NAD (top layer tile & mastic); <b>4% chry (bottom</b>	Non-Friable	Good	3,525 SF
13	except in bathrooms & HVAC closets		layer tile & mastic)			
14	IIVAO CIOSCIS		TEM - NAD (top layer tile & mastic)			
15		Crowlerge equare pattern	PLM - NAD			
16	351 bathroom	Grey large square pattern vinyl floor with mastic		Non-Friable	Good	25 SF
17			TEM - NAD			
18			PLM - NAD			
19	351 kitchen (double sink)	White sink coating		Friable	Good	1 EA
20			TEM - NAD			
21			PLM - NAD			
22	Kitchens	Kitchen counter caulk	PLIVI - NAD	Non-Friable	Good	55 LF
23			TEM - NAD			

Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers: 351, 353, 355, 357

Date: 4/26/2017 & 11/30/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
24			PLM - NAD			
25	Bathrooms	Bathroom shower stall and sink caulk		Non-Friable	Good	160 LF
26			TEM - NAD			
27			PLM - NAD			
28	HVAC closets	White HVAC caulk		Non-Friable	Good	25 LF
29			TEM - NAD			
30			PLM - NAD		Good	
31	351 front & back bedrooms & 357 front bedroom	Interior window caulk		Non-Friable		5 EA
32			TEM - NAD			
33						
34	353 & 355 kitchens (double sinks)	Black sink coating	PLM - 2% chrysotile	Friable	Good	2 EA
35	Siriksj					
36		Mastic under stove backsplash	PLM - NAD			
37	351 & 355 kitchen stove backsplash			Non-Friable	Good	10 SF
38	backopiach	baonophaon	TEM - NAD			
39			PLM - NAD			
40	Doors	Door caulk		Non-Friable	Good	8 EA
41			TEM - 0.23% chrysotile			
42			PLM - NAD			
43	Interior & exterior windows	Black window caulk		Non-Friable	Good	29 EA
44	]		TEM - NAD			
45				Non-Friable	Good	
46	353 exterior window	window Brown hard window caulk	PLM - NAD			1 EA
47	]		TEM - NAD			

Project Number: 0617-111

**Sample Description** 

Grey wall penetration mastic

Tan HVAC tape & mastic

Roof shingles (3) and felt (1)

Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit No. / Location

Brick wall penetrations

Above ceilings

Main roof & awning roofs

**Bold = Positive For Asbestos** 

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Project Number:	0617-111

Sample No.

48

49

50

51

52

53 54

55

56

57

Building Number: 4

Unit Numbers: 351, 353, 355, 357

Condition

Good

Damaged

Good

Quantity

2 SF

80 SF

2,500 SF

Date: 4/26/2017 & 11/30/2017

Friable/Non

Friable

Non-Friable

Friable

Non-Friable

SAMPLE NUMBERS NOT USED	

**Analytical Results** 

PLM - NAD

TEM - NAD

PLM - NAD

TEM - NAD

PLM - NAD

TEM - NAD

58		SAMPLE NUMBERS NOT USED					
59							
60			PLM - NAD				
61	Roof & awnings flashing	Awning/flashing caulk	FLIVI - INAD	Non-Friable	Good	150 LF	
62			TEM - NAD	Non-Friable     Good     150 LF       Non-Friable     Good     2 EA       Non-Friable     Good     2 EA       Non-Friable     Good     2 SF			
63		Deef weble eeulle	PLM - NAD				
64	Roof gable vents	Roof gable caulk (beige & grey)		Non-Friable	Good	2 EA	
65		(00.90 0.9.0))	TEM - NAD				
66			PLM - NAD				
67	Roof vents	Paint coated metal		Non-Friable	Good	2 SF	
68			TEM <1% chrysotile				
69							
70	Roof penetrations	Black/grey mastic/tar	Black/grey mastic/tar PLM - 4% chrysotile Non-Friab	Non-Friable	Good	4 SF	
71							
NAD = No Asbes	tos Detected	LF = Linear Feet	EA = Each	Amos = Amosite			
Bold = Positive	For Asbestos	SF = Square Feet	Chry = Chrysotile				

Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Project Number: 0617-111

Building Number: 5

Unit Numbers: 361, 363, 365, 367

Date: 4/26/2017 & 11/30/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1						
2				Friable		
3	361, 363, 365, 367	Drywall with joint				
4	throughout interiors	compound and tape	PLM - 2% & 3% Chrysotile		Good	12,000 SF
5						
6						
7						
8						
9	Bathrooms	Plaster with finish over	PLM - NAD	Friable	Good	900 SF
10	Datilioonis	unfinished drywall				
11						
12	361 to 367 throughout	12" x 12" tan speckled floor tile & mastic (top layer)	PLM - NAD (top layer tile & mastic); <b>4% chry (bottom</b>		Good	
13	except in bathrooms & HVAC closets	out tile & mastic (top layer) ma	12" x 12" brown layer tile & mastic)	Non-Friable		3,525 SF
14		(bottom layer)	TEM - NAD (top layer tile & mastic)			
15	HVAC closets		PLM - NAD			
16		White HVAC mastic		Non-Friable C	Good	Non-Friable Good
17			TEM - NAD			
18			PLM - NAD	NAD		
19	Kitchens	Kitchen counter caulk	PLIVI - NAU	Non-Friable	Good	55 LF
20			TEM - NAD			
21				PLM - NAD Non-Friable God		
22	Bathrooms	Bathroom shower stall and sink caulk			Good	160 LF
23			TEM - NAD			

Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers: 361, 363, 365, 367

Date: 4/26/2017 & 11/30/2017

Project Number: 0617-111

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity	
24							
25	Kitchens (double sinks)	Black sink coating	PLM - 3% chrysotile	Friable	Good	4 EA	
26							
27			PLM - NAD				
28	363 front bedroom	Interior window caulk		Non-Friable	Good	1 EA	
29			TEM - NAD				
30			PLM - NAD				
31	Doors	Door caulk		Non-Friable	Good	8 EA	
32			TEM - NAD				
33			PLM - NAD	Non-Friable	Good		
34	Interior & exterior windows	Black window caulk				30 EA	
35			TEM - NAD				
36			PLM - NAD		Good		
37	Brick wall penetrations	Grey wall penetration mastic		Non-Friable		2 SF	
38			TEM - NAD				
39			PLM - NAD				
40	Above ceilings	Tan HVAC tape & mastic		Friable	Damaged	80 SF	
41			TEM - NAD				
42							
43	Main roof & awning roofs	Roof shingles (3) and felt (1)	PLM - NAD	Non-Friable	Good	2,500 SF	
44			TEM - NAD				
45							
46	SAMPLE NUMBERS NOT USED						
47							

Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers: 361, 363, 365, 367

Date: 4/26/2017 & 11/30/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
48			PLM - NAD			
49	Roof & awnings flashing	Awning/flashing caulk	F LIVI - NAD	Non-Friable	Good	150 LF
50			TEM - NAD			
51			PLM - NAD		Good	
52	Roof gable vents	Roof gable caulk (beige & grey)		Non-Friable		2 EA
53			TEM - NAD			
54						
55	Roof vents	Paint coated metal	PLM - NAD	Non-Friable	Good	2 SF
56						
57						
58	Roof penetrations	Black/grey mastic/tar	PLM - 2% chrysotile	Non-Friable	Good	4 SF
59						
NAD = No Asbest	tos Detected	LF = Linear Feet	EA = Each	Amos = Amosite		
Bold = Positive For Asbestos		SF = Square Feet	Chry = Chrysotile			

Project Number: 0617-111

#### Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Project Number: 0617-111

Unit Numbers: 350, 352, 354, 356

Date: 4/26/2017 & 12/1/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity	
1							
2	350, 352, 354, 356 throughout interiors						
3		Denniell with inint		Friable	Good		
4		Drywall with joint compound and tape	PLM - 2% Chrysotile			12,000 SF	
5		·····					
6							
7							
8							
9	- Bathrooms	Plaster with finish over	PLM - NAD	Friable	Good	900 SF	
10	Datilioonis	unfinished drywall					
11							
12			PLM - NAD	Non-Friable	Good		
13	350 to 356 throughout except in bathrooms & HVAC closets	12" x 12" tan speckled floor tile & mastic (top layer)				3,525 SF	
14			TEM - NAD				
15			PLM-6% chry				
16	356 throughout except in bathroom & HVAC closet		mastic (bottom layer) (mastic); NAD (tile) Non-Friable	(mastic); NAD (tile) Non-Friable	Non-Friable	Good	885 SF
17			TEM - NAD (tile)				
18			PLM - NAD				
19	Kitchens	Kitchen counter caulk	chens Kitchen counter caulk		Non-Friable	Good	55 LF
20			TEM - NAD				
21			PLM - NAD	Non-Friable	Good		
22	HVAC closets	HVAC caulk				25 LF	
23			TEM - NAD				

#### Project Name: Cammie Clagett Housing Complex ACM

Project Number: 0617-111

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers: 350, 352, 354, 356

Date: 4/26/2017 & 12/1/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity	
24			proom shower stall and PLM - NAD				
25	Bathrooms	Bathroom shower stall and sink caulk		Non-Friable	Good	160 LF	
26			TEM - NAD				
27							
28	350 & 352 kitchens (double sink)	Black sink coating	PLM - 5% chrysotile	Friable	Good	2 EA	
29							
30			PLM - NAD		Good		
31	352 & 356 front bedrooms	Interior window caulk	PLM - NAD	Non-Friable		2 EA	
32			TEM - NAD				
33			PLM - NAD		Good		
34	354 & 356 kitchens (double sink)	White sink coating		Friable		2 EA	
35			TEM - NAD				
36			PLM - NAD		Good	Good	
37	Doors	Door caulk		Non-Friable			8 EA
38			TEM - NAD				
39			PLM - NAD				
40	Interior & exterior windows	Black window caulk		Non-Friable	Good	30 EA	
41			TEM - NAD				
42			PLM - NAD				
43	Brick wall penetrations	Grey wall penetration mastic		Non-Friable	Good	2 SF	
44			TEM - NAD				
45				Friable	Damaged		
46	Above ceilings	Tan HVAC tape & mastic	PLM - NAD			80 SF	
47	]		TEM - NAD				

Building Number: 6

Building Num

Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Project Number: 0617-111

Unit Numbers: 350, 352, 354, 356

Date: 4/26/2017 & 12/1/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
48			PLM - NAD			
49	Main roof & awning roofs	Roof shingles (3) and felt (1)		Non-Friable	Good	2,500 SF
50			TEM - NAD			
51			•			
52		SAMPLE NUMB	ERS NOT USED			
53						
54						
55	Roof & awnings flashing	Awning/flashing caulk	PLM - NAD	Non-Friable	Good	150 LF
56			TEM - NAD			
57						
58	Roof gable vents	Roof gable caulk (beige & grey)	PLM - NAD	Non-Friable	Good	2 EA
59		(beige & grey)	TEM - NAD			
60						
61	Roof vents	Paint coated metal	PLM - NAD	Non-Friable	Good	2 SF
62						
63						
64	<b>Roof penetrations</b>	Black/grey mastic/tar	PLM - 5% chrysotile	Non-Friable	Good	4 SF
65						
Assumed	350 to 354 throughout except bathrooms & HVAC closets	12" x 12" brown streaked floor tile and mastic (bottom layer)	Assumed Positive	Non-Friable	Good	2,640 SF
NAD = No Asbest	tos Detected	LF = Linear Feet	EA = Each	Amos = Amosite		
Bold = Positive F	For Asbestos	SF = Square Feet	Chry = Chrysotile			

#### Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Project Number: 0617-111

Building Number: 36

Unit Numbers: 410,412, 414, 416

Date: 11/29/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1						
2						
3	440,442,444,446 throughout	Draugh with joint				
4	410,412, 414, 416 throughout interiors	Drywall with joint compound and tape	PLM - 3% Chrysotile	Friable	Good	12,000 SF
5						
6						
7						
8						
9						
10	Bathrooms	Plaster with finish over unfinished drywall	PLM - NAD	Friable	Good	900 SF
11						
12						
13			PLM - NAD			
14	410 to 416 throughout except in bathrooms & HVAC closets	12" x 12" tan speckled floor tile & mastic (top layer)		Non-Friable	Good	3,525 SF
15			TEM - NAD			
16			PLM - NAD			
17	Above ceilings	Tan HVAC tape & mastic	F LIWI - NAD	Friable	Damaged	80 SF
18			TEM - NAD			
19			PLM - NAD			
20	Kitchens	Kitchen counter caulk		Non-Friable	Good	55 LF
21			TEM - NAD			
22			PLM - NAD			
23	Bathrooms	Bathroom sink caulk		Non-Friable	Good	20 LF
24			TEM - NAD			

#### Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers: 410,412, 414, 416

Date: 11/29/2017

Building Number: 36

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
25			PLM - NAD			
26	412 HVAC closet	HVAC caulk		Non-Friable	Good	6 LF
27			TEM - NAD			
28						
29	414 & 416 kitchens (double sinks)	Black sink coating	PLM - 2% Chrysotile	Friable	Good	2 EA
30						
31			PLM - NAD			
32	Bathrooms	Bathroom shower stall caulk	PLIVI - NAD	Non-Friable	Good	150 LF
33			TEM - NAD			
34						
35	410 to 414 front bedrooms & 416 back bedroom	Interior hard white window caulk	PLM - NAD	Non-Friable	Good	8 EA
36	Back bedroom	Caulk	TEM - NAD			
37						
38	412 kitchen (double sink)	Black sink pad	PLM - NAD	Friable	Damaged	1 EA
39			TEM - NAD			
40						
41	416 kitchen & living room	Interior soft white window caulk	PLM - NAD	Non-Friable	Good	4 EA
42		Caulk	TEM - NAD			
43						
44	Main roof & awning roofs	Roof shingles (2) and felt (1)	PLM - NAD	Non-Friable	Good	2,500 SF
45	1		TEM - NAD			
46						
47	1	SAMPLE NUMB	ERS NOT USED			
48	1					

Project Number: 0617-111

# Project Name: Cammie Clagett Housing Complex ACM

Project Number: 0617-111

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers: 410,412, 414, 416

Date: 11/29/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
49			PLM - NAD			
50	Roof & awnings flashing	Awning/flashing caulk	FLIVI - INAD	Non-Friable	Good	150 LF
51			TEM - NAD			
52			PLM - NAD			
53	Interior & exterior windows	Black window caulk	PLIVI - INAD	Non-Friable	Good	30 EA
54			TEM - NAD			
55						
56	Doors	Door caulk	PLM - NAD	Non-Friable	Good	8 EA
57			TEM - NAD			
58						
59	Roof gable vents	Roof gable caulk	PLM - NAD	Non-Friable	Good	2 EA
60			TEM - NAD			
61						
62	Roof vents	Paint coated metal	PLM - NAD	Non-Friable	Good	2 SF
63			TEM - NAD			
64						
65	Roof penetrations	Black mastic/tar	PLM - NAD	Non-Friable	Good	4 SF
66			TEM - NAD			
Assumed	410 to 416 throughout except bathrooms & HVAC closets	12" x 12" brown streaked floor tile and mastic (bottom layer)	Assumed Positive	Non-Friable	Good	3,525 SF
NAD = No Asbest	tos Detected	LF = Linear Feet	EA = Each	Amos = Amosite		
Bold = Positive I	For Asbestos	SF = Square Feet	Chry = Chrysotile			

Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Project Number: 0617-111

Unit Numbers:415 & 417

Date: 11/29/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1						
2		Drawell with joint				
3	415 & 417 throughout interior	Drywall with joint compound and tape	PLM - 3% Chrysotile	Friable	Good	3,400 SF
4						
5						
6		Director with finish over				
7	Bathrooms	Plaster with finish over unfinished drywall	PLM - NAD	Friable	Good	400 SF
8		, ,				
9			PLM - NAD			
10	Kitchens	Kitchen counter caulk		Non-Friable	Good	25 LF
11			TEM - NAD			
12						
13	Kitchens (double sinks)	Black sink coating	PLM - 3% Chrysotile	Friable	Good	2 EA
14						
15			PLM - NAD			
16	Bathrooms	Bathroom sink caulk		Non-Friable	Good	10 LF
17			TEM - NAD			
18			PLM - NAD			
19	Bathrooms	Bathroom shower stall caulk		Non-Friable	Good	70 LF
20			TEM - NAD			
21			PLM - NAD			
22	HVAC closets	Red & white HVAC caulk		Non-Friable	Good	15 LF
23			TEM - NAD			

#### Project Name: Cammie Clagett Housing Complex ACM

Project Number: 0617-111

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers:415 & 417

Date: 11/29/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
24			PLM - NAD			
25	HVAC closets and above the drywall ceiling	Beige HVAC mastic		Non-Friable	Good	60 SF
26			TEM - NAD			
27			PLM - NAD			
28	415 & 417 throughout except for bathrooms & HVAC closets	12" x 12" tan speckled floor tile and mastic (top layer)		Friable	Good	950 SF
29			TEM - NAD			
30			PLM - NAD			
31	Main roof	Roof shingles (3) and felt (1)		Non-Friable	Good	1,350 SF
32			TEM - NAD			
33			PLM - NAD			
34	Interior & exterior windows	Black window caulk		Non-Friable	Good	8 EA
35			TEM - NAD			
36						
37	Doors	Door caulk	PLM - 2% chrysotile	Non-Friable	Good	4 EA
38						
39			PLM - NAD			
40	Roof vents	Paint coated metal		Non-Friable	Good	2 SF
41			TEM - NAD			
42			PLM - NAD			
43	Roof penetrations	Black mastic/tar		Non-Friable	Good	2 SF
44			TEM - NAD			
45						
46	Roof gable vents	Roof gable caulk	PLM - NAD	Non-Friable	Good	2 EA
47	]		TEM - NAD			

\_\_\_\_\_

Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Project Number: 0617-111

Unit Numbers:415 & 417

Date: 11/29/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
Assumed	415 & 417 throughout except for HVAC closets	12" x 12" brown streaked floor tile and mastic (bottom layer)	Assumed Positive	Non-Friable	Good	1,000 SF
NAD = No Asbes	tos Detected	LF = Linear Feet	EA = Each	Amos = Amosite		
Bold = Positive	For Asbestos	SF = Square Feet	Chry = Chrysotile			

#### Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Project Number: 0617-111

Unit Numbers: 420, 422, 424, 426, 428, 430

Date: 11/29/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1						
2						
3	420 422 424 426 429 420	Drawell with joint				
4	420, 422, 424, 426, 428, 430 throughout interiors	Drywall with joint compound and tape	PLM - 3% Chrysotile	Friable	Good	14,000 SF
5	5					
6						
7						
8						
9						
10	Bathrooms	Plaster with finish over unfinished drywall	PLM - NAD	Friable	Good	1,300 SF
11						
12						
13			PLM - NAD			
14	420 to 430 throughout except in bathrooms & HVAC closets	12" x 12" tan speckled floor tile & mastic (top layer)	F LIM - NAD	Non-Friable	Good	4,625 SF
15			TEM - NAD			
16			PLM-2% chry			
17	420 kitchen	12" x 12" cream floor tile & mastic (bottom layer)	(mastic); NAD (tile)	Non-Friable	Good	215 SF
18			TEM - NAD (tile)			
19			PLM-2% chry			
20	420 2nd floor hallway	12" x 12" beige floor tile & mastic (bottom layer)	(mastic); NAD (tile)	Non-Friable	Good	40 SF
21			TEM - NAD (tile)			
22			PLM - NAD			
23	420 & 422 bathroom	12" x 12" light tan floor tile & mastic (bottom layer)		Non-Friable	Good	50 SF
24-A			TEM - NAD			

#### Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers: 420, 422, 424, 426, 428, 430

Date: 11/29/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
24-B			PLM - NAD			
25	Bathrooms	Bathroom sink caulk		Non-Friable	Good	30 LF
26			TEM - NAD			
27			PLM - NAD			
28	Bathrooms	Bathroom shower stall caulk		Non-Friable	Good	215 LF
29			TEM - NAD			
30			PLM - NAD			
31	Kitchens	Kitchen counter caulk		Non-Friable	Good	90 LF
32			TEM - NAD			
33			PLM - NAD			
34	HVAC closets	HVAC caulk (caulk only)		Non-Friable	Good	40 LF
35			TEM - NAD			
36			PLM - NAD			
37	Above ceilings	HVAC tape and mastic		Friable	Damaged	60 SF
38			TEM - NAD			
39						
40	Kitchens (double sinks)	Black sink coating	PLM - 2% Chrysotile	Friable	Good	6 EA
41						
42			PLM - NAD			
43	422 & 426 front bedrooms	Interior white window caulk		Non-Friable	Good	3 EA
44			TEM - NAD			
45			PLM - NAD			
46	Main roof & awning roofs	Roof shingles (3) and felt (1)		Non-Friable	Good	4,250 SF
47			TEM - NAD			

Building Number: 38

Project Number: 0617-111

#### Project Name: Cammie Clagett Housing Complex ACM

Project Location: 422 Concord Avenue, Spartanburg, South Carolina

Unit Numbers:420, 422, 424, 426, 428, 430

Project Number: 0617-111

Date: 11/29/2017

Sample No.	Unit No. / Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
48			PLM - NAD			
49	Roof vents	Paint coated metal		Non-Friable	Good	5 SF
50			TEM - NAD			
51			PLM - NAD			
52	Roof penetrations	Black mastic/tar		Non-Friable	Good	6 SF
53			TEM - NAD			
54						
55		SAMPLE NUMB	ERS NOT USED			
56						
57			PLM - NAD			
58	Roof & awnings flashing	Awning/flashing caulk		Non-Friable	Good	200 LF
59			TEM - NAD			
60			PLM - NAD			
61	Interior & exterior windows	Brown window caulk		Non-Friable	Good	45 EA
62			TEM - NAD			
63			PLM - NAD			
64	Doors	Door caulk		Non-Friable	Good	12 EA
65			TEM - NAD			
66						
67	Roof gable vents	Roof gable caulk	PLM - NAD	Non-Friable	Good	2 EA
68	]		TEM - NAD	]		
Assumed	420 to 430 throughout except in bathrooms & HVAC closets	12" x 12" brown streaked floor tile and mastic (bottom layer)	Assumed Positive	Non-Friable	Good	4,370 SI
AD = No Asbes	tos Detected	LF = Linear Feet	EA = Each	Amos = Amosite		
d - Desitiva	For Achastas	SE - Square Feet	Chry – Chrysotile			

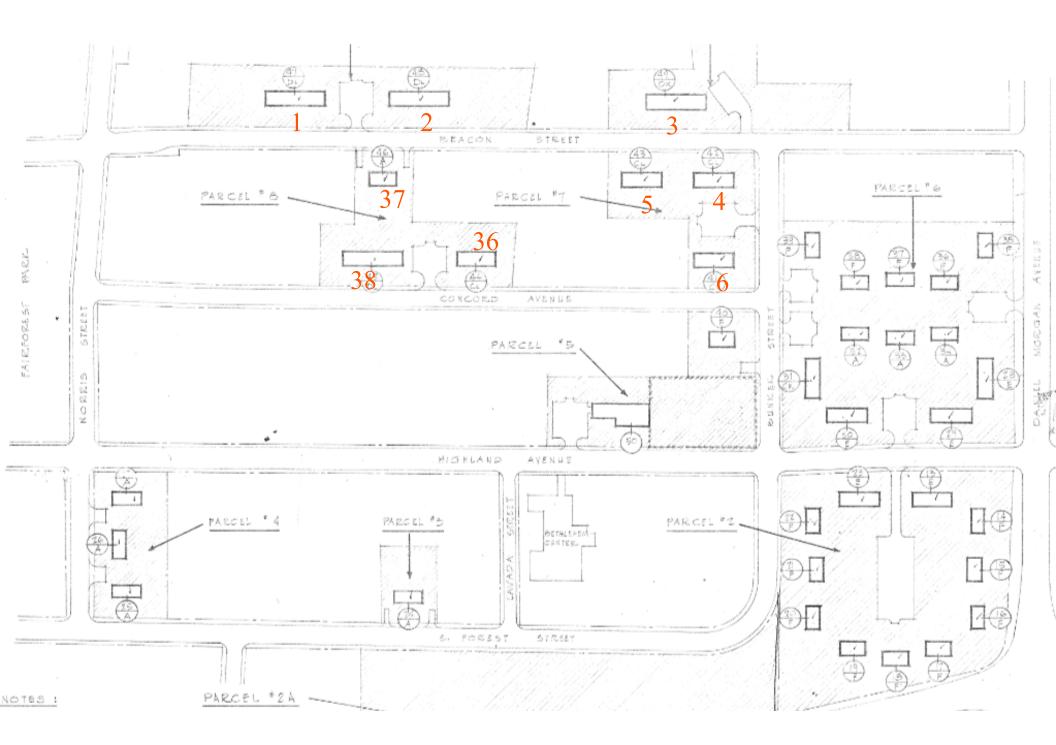
**Bold = Positive For Asbestos** 

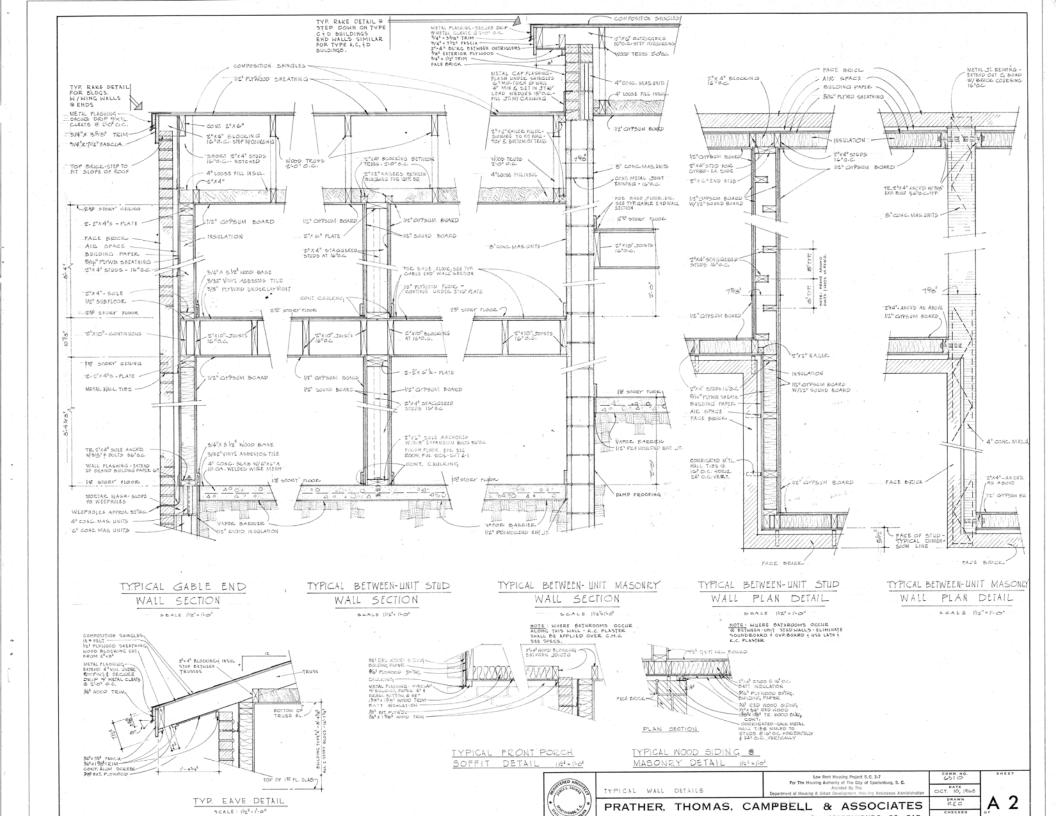
SF = Square Feet

Chry = Chrysotile

APPENDIX III

SITE OVERVIEW WITH BUILDING NUMBERS & UNIT CROSS-SECTION DRAWING





**APPENDIX IV** 

LABORATORY RESULTS & CHAIN OF CUSTODY

OrderID: 411703363

EMS

EMSL ANALYTICAL, INC.

Page 1 Of

Asbestos Bulk Building Material Chain of Custody EMSL Order Number (Lab Use Only):

EMSL Analytical, Inc. 376 Crompton Street

Charlotte,	NC 28273
PHONE: (7	04) 525-2205
	04) 525-2382

LABORATORY+PRODUCTS+TRAINING		411703363	FAX: (704) 525-2382
Company : Apex Environmenta	I Management	lf	EMSL-Bill to: Same Different
Street: 7 Winchester Court			y Billing requires written authorization from third party
City: Mauldin	State/Province: SC	Zip/Postal Cod	
Report To (Name): Nicholas Ne	erhof	Telephone #: 8	
Email Address: nneerhof@ape		Fax #:	Purchase Order:
Project Name/Number: Cammie	Claget+ Building 134,5		
U.S. State Samples Taken: SC	Turnaround Time	CT Samples: ( (TAT) Options* – Ple	Commercial/Taxable Resider tial/Tax Exempt
3 Hour 6 Hour	24 Hour 48 Ho	our 72 Hour	96 Hour 1 Week 2 Week
			our TEM AHERA or EPA Level II TAT. You will be asked to sign ms and Conditions located in the Analytical Price Guide.
PLM - Bulk (repo			<u>TEM – Bulk</u>
PLM EPA 600/R-93/116 (<1%)		TEM EPA NOE	3 – EPA 600/R-93/116 Section 2.5.5.1
PLM EPA NOB (<1%)		NY ELAP Meth	and and the second many second s
Point Count 400 (<0.25%)			col (semi-quantitative)
Point Count w/Gravimetric 400	(<0.25%) [] 1000 (<0.1%	The second discount discount and charter a second a constant of the second of the	ss – EPA 600/R-93/116 Section 2.5.5 2 e via Filtration Prep Technique
NIOSH 9002 (<1%)	e in NY)	a - 11	e via Drop Mount Prep Technique
NY ELAP Method 198.6 NOB			Other
OSHA ID-191 Modified			
Standard Addition Method			
Check For Positive Stop - Cl	early Identify Homogeno	us Group Date Sar	npled: 4-25-17
Samplers Name: Nichola	s Neerhot	Samplers Si	gnature: Dech
Sample # HA #	Sample Location		Material Description
Sample # HA #		· · · · · · · · · · · · · · · · · · ·	Material Description Grey door challed
1-76 doors	White and		
1-76 doors 1-77 1-78	White and		Grey door cuilly
1-76 doors 1-77 1-78	With themes		Grey door cuilly
1-76 doors 1-77 1-78 1-79 Vi	With themes		Grey door cuilly
1-76 doors 1-77 1-78 1-78 1-78 1-78 1-81	indo-s		Brey door chille
1-76 doors 1-77 1-78 1-78 1-78 1-78 1-81	With themes		Grey door cuilly
1-76 doors 1-77 1-78 1-78 1-78 1-78 1-80 1-81 1-81 1-82 Br	indo-s		Brey door chille
1-76 doors 1-77 1-78 1-78 1-78 1-80 1-81 1-82 Br 1-83	indo-s		Brey door chille
1-76 doors 1-77 1-78 1-78 1-78 1-78 1-80 1-80 1-81 1-82 Br 1-83 1-84	indons icle penetra		Grey door chille Black vindor chille Grey penetration mastic
1-76 doors 1-77 1-78 1-78 1-78 1-80 1-80 1-81 1-82 Br 1-83 1-84 4-39	doors 1-76	tions	Grey door chulk Grey door chulk Grey door chulk Total # of Samples:
1 - 76       doors $1 - 77$ $1 - 78$ $1 - 78$ $1 - 78$ $1 - 78$ $1 - 78$ $1 - 78$ $1 - 78$ $1 - 80$ $1 - 81$ $1 - 81$ $1 - 82$ $1 - 83$ $1 - 83$ $1 - 84$	doors 1-76	+ions 	Grey door chulk Grey door chulk Grey door chulk Total # of Samples:
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	doors 1-76 Ster Court, Mauldin, SC, 29662, US	$f_{ions}$ $f_{i$	Grey door chulk Grey door chulk Grey door chulk Total # of Samples:

2

OrderID: 411703363

Page 2 Of



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

411703363

EMSL Analytical, Inc. 376 Crompton Street

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample #	HA #	Sample Location	Material Description
4-40		doors	Grey door caulky
4-41		+	L
4-42		Vindovs 1	Black window Caulky
4-43			
4-44			L
4-45		V-353 Vindous	Brown caulk (hard)
4-46			
4-47		1	
4-48		Brick penetrations	Grey penetration mastic
4-49			
4-50			<b>_</b>
5-30		Ling doors	Grey door cunk
5-31			
5-32		*	
5-33		Vindovs	Black vindor caulky
5-34			
5-35			
5-36		Brick Denetrations	Grey penetration mistic
5-37			
5-38			
			· · · · · · · · · · · · · · · · · · ·
	_		
		al Instructions:	
	rironmental M	alysis. anagement, 7 Winchester Court, Mauldin, SC, 29662, US one: 864-404-3210 Email: rshultz@apex-ehs.com Purchase Order:	
		Page 2 of 2 pages	
		Page or pages	

EMSL Analytical, Inc.
 376 Crompton Street Charlotte, NC 28273
 Tel/Fax: (704) 525-2205 / (704) 525-2382
 http://www.EMSL.com / charlottelab@emsl.com
 Attention: Nicholas Neerhof
 Apex Environmental Management

EMSL Order: 411703363 Customer ID: AXEM25 Customer PO: Project ID:

(864) 640-5274
04/28/2017 11:00 AM
05/04/2017
04/25/2017

**Project:** Cammie Clagett Building 1, 4, 5 Ext.

7 Winchester Court Mauldin, SC 29662

			Non-Asbestos				
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	<u>Asbestos</u> % Type		
1-76 411703363-0001	Doors - Grey Door Caulk	Gray/White Non-Fibrous Homogeneous	<1% Fibrous (Other)	5% Ca Carbonate 95% Non-fibrous (Other)	<1% Chrysotile		
1-77	Doors - Grey Door Caulk	Gray/White Non-Fibrous		100% Non-fibrous (Other)	<1% Chrysotile		
411703363-0002		Homogeneous					
1-79 411703363-0003	Windows - Black Window Caulk	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected		
	Windows - Black	Brown		100% Non-fibrous (Other)	None Detected		
1-80 411703363-0004	Window Caulk	Non-Fibrous Homogeneous		100% Non-librous (Other)	None Detected		
1-82	Brick Penetrations -	Gray	3% Glass	40% Quartz	None Detected		
411703363-0005	Grey Penetration Mastic	Fibrous Homogeneous	370 Glass	5% Ca Carbonate 52% Non-fibrous (Other)	None Delected		
1-83	Brick Penetrations -	Gray	5% Glass	35% Quartz	None Detected		
411703363-0006	Grey Penetration Mastic	Fibrous Homogeneous	070 01000	60% Non-fibrous (Other)			
4-39	Doors - Grey Door Caulk	Gray/Beige Non-Fibrous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected		
411703363-0007		Homogeneous					
4-40	Doors - Grey Door Caulk	Gray Non-Fibrous	3% Glass	5% Quartz 92% Non-fibrous (Other)	None Detected		
411703363-0008		Homogeneous					
4-42	Windows - Black Window Caulk	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected		
411703363-0009		Homogeneous					
4-43	Windows - Black Window Caulk	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected		
411703363-0010		Homogeneous					
4-45 411703363-0011	U-353 Windows - Brown Caulk (Hard)	Brown Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected		
4-46	U-353 Windows -	Brown		10% Ca Carbonate	None Detected		
4-40 411703363-0012	Brown Caulk (Hard)	Non-Fibrous Homogeneous		90% Non-fibrous (Other)	None Delected		
4-48	Brick Penetrations - Grey Penetration	Gray Fibrous	3% Glass	40% Quartz 5% Ca Carbonate	None Detected		
411703363-0013	Mastic	Homogeneous		52% Non-fibrous (Other)			
4-49	Brick Penetrations - Grey Penetration	Gray Fibrous	5% Glass	35% Quartz 60% Non-fibrous (Other)	None Detected		
411703363-0014	Mastic	Homogeneous					
5-30	Doors - Grey Door Caulk	Gray Non-Fibrous	<1% Glass	100% Non-fibrous (Other)	None Detected		
411703363-0015		Homogeneous					
5-31	Doors - Grey Door Caulk	Gray Non-Fibrous	4% Glass	96% Non-fibrous (Other)	None Detected		
411703363-0016		Homogeneous					



		Non-Asbestos			Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
5-33	Windows - Black Window Caulk	Brown/Black Non-Fibrous		100% Non-fibrous (Other)	None Detected	
411703363-0017		Homogeneous				
5-34	Windows - Black Window Caulk	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected	
411703363-0018		Homogeneous				
5-36	Brick Penetrations - Grey Penetration	Gray Fibrous	3% Glass	40% Quartz 10% Ca Carbonate	None Detected	
411703363-0019	Mastic	Homogeneous		47% Non-fibrous (Other)		
5-37	Brick Penetrations -	Gray	8% Glass	35% Quartz	None Detected	
411703363-0020	Grey Penetration Mastic	Fibrous Homogeneous		57% Non-fibrous (Other)		

Analyst(s)

Aaron Hartley (10) Kristie Elliott (10)

Evan L Plumber

Lee Plumley, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. 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. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

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

Initial report from: 05/05/2017 07:57:31

376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com EMSL Order: 411703363 Customer ID: AXEM25 Customer PO: Project ID:

Attention:	Nicholas Neerhof
	Apex Environmental Management
	7 Winchester Court
	Mauldin, SC 29662

 Phone:
 (864) 640-5274

 Fax:
 Fax:

 Received Date:
 04/28/2017 11:00 AM

 Analysis Date:
 05/10/2017

 Collected Date:
 04/25/2017

Project: Cammie Clagett Building 1, 4, 5 Ext.

#### 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
1-78 411703363-0021	Doors - Grey Door Caulk	Gray Non-Fibrous Homogeneous	92.3	None	7.7% Chrysotile
1-81 411703363-0022	Windows - Black Window Caulk	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-84 411703363-0023	Brick Penetrations - Grey Penetration Mastic	Gray Fibrous Homogeneous	100	None	No Asbestos Detected
4-41 411703363-0024	Doors - Grey Door Caulk	Gray Non-Fibrous Homogeneous	99.8	None	0.23% Chrysotile
4-44 411703363-0025	Windows - Black Window Caulk	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
4-47 411703363-0026	U-353 Windows - Brown Caulk (Hard)	Brown Non-Fibrous Homogeneous	100	None	No Asbestos Detected
4-50 411703363-0027	Brick Penetrations - Grey Penetration Mastic	Gray Fibrous Homogeneous	100	None	No Asbestos Detected
5-32 411703363-0028	Doors - Grey Door Caulk	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected
5-35 411703363-0029	Windows - Black Window Caulk	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
5-38 411703363-0030	Brick Penetrations - Grey Penetration Mastic	Gray Fibrous Homogeneous	100	None	No Asbestos Detected

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

Samples analyzed by EMSL Analytical, Inc. Charlotte, NC

Initial report from: 05/10/2017 15:14:00

EMSL	EMSL Analytical, Inc. 376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:	Nicholas Neerhof	Phone:	(864) 640-5274
	Apex Environmental Management	Fax:	
	7 Winchester Court	Received Date:	04/28/2017 11:00 AM
	Mauldin, SC 29662	Analysis Date:	05/10/2017
		Collected Date:	04/25/2017
Project:	Cammie Clagett Building 1, 4, 5 Ext.		
Te	st Report: Asbestos Analysis of Non-Friable Organic EPA/600/R-93/116 Section 2	•	y TEM via

	Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
--	-----------	-------------	------------	-------------------	-----------------------	----------------

Analyst(s)

Derrick Young (10)

Even L Plumber

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: 05/10/2017 15:14:00

EMSL EMSL ANALYTICAL, INC.			Asbestos Bulk Building Material Chain of Custody EMSL Order Number (Lab Use Only):				EMSL Analytical, Inc. 376 Crompton Street Charlotte, NC 28273 PHONE: (704) 525-2205			
LABORATORY+PRODUCT	S-TRAINING		The second	41	1170 3303		14.1	FAX:	(704	) 525-2382
Company : Ap	bex Enviror	nmental M	lanagement				MSL-Bill to: S Sifferent note in			
Street: 7 Wind	chester Co	urt			Third Pa	arty E	Billing requires writte	en authorization	from t	hird party
City: Mauldin			State/Provinc	e: SC	Zip/Postal Co	ode:	29662	Country: US	3	
Report To (Na	1				Telephone #:	864	4-404-3210			
Email Addres	and the second se	and the second sec		TUN	Fax #:	2		Purchase O	-	
Project Name U.S. State Sar	/Number:( nples Take	ammie C n:SC	agett B-2a	nd 9 Floors	Please Provid CT Samples:		Results: Fax Commercial/Tax		Ma dentia	ail al/Tax Exemp
		-			AT) Options* – P		A COLUMN TWO IS NOT THE OWNER.	1		
*For TEM Air 3 h	nr through 6 hr		24 Hour	<b>48 Hour</b>	mium charge for 3		TEM AHERA or EP	A Level II TAT.	ou will	be asked to sign
	rization form fo	or this servic	e. Analysis complet				and Conditions loca	ted in the Analyti		
		lk (reporti	ng limit)			20	<u>TEM –</u>			
PLM EPA 6		5 (<1%)					- EPA 600/R-93/1	16 Section 2.	5.5.1	
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Sample # H	IA#		material a	descript	tion		Sample	Loch tion		
2-14	-	layer - C	ream speckle	1 1 1	Floor tile mast	id .	. 1	down stai	3	floors
2-15	Seco	al lay	er - tan 12"x	12" floor		-11				
2-16	3-		- 1-11 (- 1					SS T		1
2-17	Tor-	(Yean	enabled pate	tern floo	rt's with	-	Throughout	upsthirs	l	1 2706
2-18	Carol	11.000	speckled path underwood -	are f	our tile with	$\parallel$	14.0.510.01	orbonally	1	10013
2-14	Secon	a Luyer	mact vood -		the masti	1				
1-17	12'11	2" ] .	Snocklad fl	alita	with adhering	-	Link	- 351		
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4-14	over	12 216	brown stere	+	bor file mustic	+	F 1		100	
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Client Sample	# (s):		2-14	- 1	1-14		Total # of	Samples:	9	
Relinquished		icholas		Date	11 - 1 / -	7		Time		1143
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	mental Manageme	ent, 7 Wincheste	r Court, Mauldin, SC, 296 : rshultz@apex-ehs.com		2					3708
			Page 1	of	pages					

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1

EMSL Order: 411703303 **EMSL** Analytical, Inc. Customer ID: AXEM25 376 Crompton Street Charlotte, NC 28273 MSI **Customer PO:** Tel/Fax: (704) 525-2205 / (704) 525-2382 Project ID: http://www.EMSL.com / charlottelab@emsl.com Attention: Nicholas Neerhof Phone: (864) 640-5274 Apex Environmental Management Fax: 7 Winchester Court Received Date: 04/27/2017 10:00 AM Mauldin, SC 29662 Analysis Date: 04/27/2017 Collected Date: 04/24/2017 Project: Cammie Clagett B-2 and 4 Floors

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
2-14-White Floor Tile	Throughout Downstairs Floors - Top Layer - Cream Speckled 12"x12" Floor Tile with Mastic/ Second Layer - Tan 12"x12" Floor Tile with Mastic	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
2-14-Mastic 411703303-0001A	Throughout Downstairs Floors - Top Layer - Cream Speckled 12"x12" Floor Tile with Mastic/ Second Layer - Tan 12"x12" Floor Tile with Mastic	Yellow Non-Fibrous Homogeneous		5% Ca Carbonate 5% Mica 90% Non-fibrous (Other)	None Detected
2-14-Tan Floor Tile	Throughout Downstairs Floors - Top Layer - Cream Speckled 12"x12" Floor Tile with Mastic/ Second Layer - Tan 12"x12" Floor Tile with Mastic	Tan Fibrous Homogeneous		35% Ca Carbonate 62% Non-fibrous (Other)	3% Chrysotile
2-14-Mastic 411703303-0001C	Throughout Downstairs Floors - Top Layer - Cream Speckled 12"x12" Floor Tile with Mastic/ Second Layer - Tan 12"x12" Floor Tile with Mastic	Black Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
2-15-White Floor Tile 411703303-0002	Throughout Downstairs Floors - Top Layer - Cream Speckled 12"x12" Floor Tile with Mastic/ Second Layer - Tan 12"x12" Floor Tile with Mastic	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
2-15-Mastic 411703303-0002A	Throughout Downstairs Floors - Top Layer - Cream Speckled 12"x12" Floor Tile with Mastic/ Second Layer - Tan 12"x12" Floor Tile with Mastic	Yellow Non-Fibrous Homogeneous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected



EMSL Order: 411703303 Customer ID: AXEM25 Customer PO:

Project ID:

		Asbestos			
Sample	Description	Appearance	<u>Non-Asbe</u> % Fibrous	% Non-Fibrous	<u>Asbestos</u> % Type
2-15-Tan Floor Tile 411703303-0002B	Throughout Downstairs Floors - Top Layer - Cream Speckled 12"x12" Floor Tile with Mastic/ Second Layer - Tan				Positive Stop (Not Analyzed)
	12"x12" Floor Tile with Mastic				
2-15-Mastic	Throughout				Positive Stop (Not Analyzed)
411703303-0002C	Downstairs Floors - Top Layer - Cream Speckled 12"x12" Floor Tile with Mastic/ Second Layer - Tan 12"x12" Floor Tile with Mastic				
2-17-White Floor Tile	Throughout Upstairs Floors - Top - Cream Speckled Pattern Floor Tile with Mastic/ Second Layer under Wood - Grey Floor Tile with Mastic	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
2-17-Mastic	Throughout Upstairs	Yellow	1% Cellulose	5% Ca Carbonate	None Detected
411703303-0003A	Floors - Top - Cream Speckled Pattern Floor Tile with Mastic/ Second Layer under Wood - Grey Floor Tile with Mastic	Fibrous Homogeneous		94% Non-fibrous (Other)	
2-17-Gray Floor Tile	Throughout Upstairs	Gray		30% Ca Carbonate	4% Chrysotile
411703303-0003B	Floors - Top - Cream Speckled Pattern Floor Tile with Mastic/ Second Layer under Wood - Grey Floor Tile with Mastic	Fibrous Homogeneous		66% Non-fibrous (Other)	
2-17-Mastic	Throughout Upstairs	Black		5% Ca Carbonate	6% Chrysotile
411703303-0003C	Floors - Top - Cream Speckled Pattern Floor Tile with Mastic/ Second Layer under Wood - Grey Floor Tile with Mastic	Fibrous Homogeneous		89% Non-fibrous (Other)	
2-18-White Floor Tile	Throughout Upstairs Floors - Top - Cream	White Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
411703303-0004	Speckled Pattern Floor Tile with Mastic/ Second Layer under Wood - Grey Floor Tile with Mastic	Homogeneous			
2-18-Mastic	Throughout Upstairs	Yellow	<1% Cellulose	5% Ca Carbonate	None Detected
411703303-0004A	Floors - Top - Cream Speckled Pattern Floor Tile with Mastic/ Second Layer under Wood - Grey Floor Tile with Mastic	Non-Fibrous Homogeneous		95% Non-fibrous (Other)	



EMSL Order: 411703303 Customer ID: AXEM25 Customer PO:

Project ID:

			Non Ag	-	Ashaataa
Sample	Description	Appearance	<u>Non-As</u> % Fibrous	% Non-Fibrous	<u>Asbestos</u> % Type
2-18-Gray Floor Tile 411703303-0004B	Throughout Upstairs Floors - Top - Cream Speckled Pattern Floor Tile with Mastic/ Second Layer under Wood - Grey Floor Tile with Mastic				Positive Stop (Not Analyzed
2-18-Mastic 411703303-0004C	Throughout Upstairs Floors - Top - Cream Speckled Pattern Floor Tile with Mastic/ Second Layer under Wood - Grey Floor Tile with Mastic				Positive Stop (Not Analyzed
4-12-Tan Floor Tile 411703303-0005	Kitchen - 351 - 12"x12" Tan Speckled Floor Tile with Adhesive over 12"x12" Brown Streaked Floor Tile with Mastic	Tan Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
4-12-Mastic 411703303-0005A	Kitchen - 351 - 12"x12" Tan Speckled Floor Tile with Adhesive over 12"x12" Brown Streaked Floor Tile with Mastic	Yellow Non-Fibrous Homogeneous		5% Ca Carbonate 5% Mica 90% Non-fibrous (Other)	None Detected
4-12-Brown Floor Tile 411703303-0005B	Kitchen - 351 - 12"x12" Tan Speckled Floor Tile with Adhesive over 12"x12" Brown Streaked Floor Tile with Mastic	Brown Fibrous Homogeneous		40% Ca Carbonate 57% Non-fibrous (Other)	3% Chrysotile
4-12-Mastic 411703303-0005C	Kitchen - 351 - 12"x12" Tan Speckled Floor Tile with Adhesive over 12"x12" Brown Streaked Floor Tile with Mastic	Black Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
4-13-Tan Floor Tile 411703303-0006	Living Room - 355 - 12"x12" Tan Speckled Floor Tile with Adhesive over 12"x12" Brown Streaked Floor Tile with Mastic	Tan Non-Fibrous Homogeneous	<1% Cellulose	40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
4-13-Mastic 411703303-0006A	Living Room - 355 - 12"x12" Tan Speckled Floor Tile with Adhesive over 12"x12" Brown Streaked Floor Tile with Mastic	Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected



			Non-A	sbestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
4-13-Brown Floor Tile	Living Room - 355 -				Positive Stop (Not Analyzed)
	12"x12" Tan Speckled				
411703303-0006B	Floor Tile with				
	Adhesive over				
	12"x12" Brown				
	Streaked Floor Tile				
	with Mastic				
4-13-Mastic	Living Room - 355 -				Positive Stop (Not Analyzed)
	12"x12" Tan Speckled				
411703303-0006C	Floor Tile with				
	Adhesive over				
	12"x12" Brown				
	Streaked Floor Tile				
	with Mastic				

Analyst(s)

Eric Loomis (6) Lacy Searcy (12)

Evan L Plumber

Lee Plumley, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. 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. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

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

Initial report from: 04/27/2017 14:11:50

EMSL Analytical, Inc.

376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com EMSL Order: 411703303 Customer ID: AXEM25 Customer PO: Project ID:

-	
Attention:	Nicholas Neerhof
	Apex Environmental Management
	7 Winchester Court
	Mauldin, SC 29662

Phone: (864) 640-5274 Fax: Received Date: 04/27/2017 10:00 AM Analysis Date: 04/28/2017 Collected Date: 04/24/2017

Project: Cammie Clagett B-2 and 4 Floors

#### 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
2-16-White Floor Tile 411703303-0007	Throughout Downstairs Floors - Top Layer - Cream Speckled 12"x12" Floor Tile with Mastic/ Second Layer - Tan 12"x12" Floor Tile with Mastic	White Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
2-16-Mastic 411703303-0008	Throughout Downstairs Floors - Top Layer - Cream Speckled 12"x12" Floor Tile with Mastic/ Second Layer - Tan 12"x12" Floor Tile with Mastic	Tan Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
2-19-White Floor Tile 411703303-0009	Throughout Upstairs Floors - Top - Cream Speckled Pattern Floor Tile with Mastic/ Second Layer under Wood - Grey Floor Tile with Mastic	White Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
2-19-Mastic 411703303-0010	Throughout Upstairs Floors - Top - Cream Speckled Pattern Floor Tile with Mastic/ Second Layer under Wood - Grey Floor Tile with Mastic	Tan Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
4-14-Tan Floor Tile 411703303-0011	Front Bedroom - 357 - 12"x12" Tan Speckled Floor Tile with Adhesive over 12"x12" Brown Streaked Floor Tile with Mastic	White Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
4-14-Mastic 411703303-0012	Front Bedroom - 357 - 12"x12" Tan Speckled Floor Tile with Adhesive over 12"x12" Brown Streaked Floor Tile with Mastic	Tan Non-Fibrous Heterogeneous	100	None	No Asbestos Detected

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

Samples analyzed by EMSL Analytical, Inc. Charlotte, NC

Initial report from: 04/28/2017 14:11:38

MSL	EMSL Analytical, Inc. 376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:	Nicholas Neerhof	Phone:	(864) 640-5274
	Apex Environmental Management	Fax:	
	7 Winchester Court	Received Date:	04/27/2017 10:00 AM
	Mauldin, SC 29662	Analysis Date:	04/28/2017
		Collected Date:	04/24/2017
Project:	Cammie Clagett B-2 and 4 Floors		
Te	st Report: Asbestos Analysis of Non-Friable EPA/600/R-93/116 S	• •	oy TEM via

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types

Analyst(s)

Derrick Young (6)

Even L. Plumber

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: 04/28/2017 14:11:38

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EMSL ANALYTICAL, INC.

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EMSL Anal	/tical, Inc.
376 Cromp	

4

Asbestos Bulk	<b>Building Material</b>
Chain o	f Custody

EMSL Order Number (Lab Use Only):

# 411703308

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

	L		1117		0			,		
Company : Apex	Environmental	Management						e 🔽 Differe		
Street: 7 Winches	ster Court				Third Party E	Billing require	s written au	uthorization fr	om third	party
City: Mauldin		State/Prov	vince: SC	Zip/Po	ostal Code:	29662	Co	untry: US		
Report To (Name)	: Nicholas Nee	erhof		Telep	hone #: 864	-404-3210	)			
Email Address:			#1	Fax #	:		Pu	rchase Ord	ler:	
Project Name/Nu	nber: Camp		HT Buik	Pleas	e Provide R	esults:		Email	Mail	
U.S. State Sample	es Taken: SC			CISa	mples: 🔲 (		al/Taxable	e 🗌 Reside	ential/T	ax Exempt
		Turnarc	ound Time (TA	-	ons* – Pleas 72 Hour	se Check	our	1 Week		2 Week
*For TEM Air 3 hr thr	<b>6 Hour</b>	all ahead to schedu	le.*There is a pre	mium cha	arge for 3 Hour	TEM AHERA	or EPA Lev	el II TAT. You	u will be a	asked to sign
	on form for this ser		npleted in acco <mark>r</mark> da	nce with	EMSL's Terms				Il Price G	uide.
	M - Bulk (report	rting limit)					EM – Bull	-	5 4	
PLM EPA 600/	and the second se				EPA NOB -			Section 2.5.	5.1	
		000 ( -0.40()			LAP Method					
Point Count 40					field Protoco			Section 2.5	50	
Point Count w/Gra		(<0.25%) 🗋 10			% by Mass				.5.2	
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OSHA ID-191	the strand the second strand str	non-mable-in r)			1		ottier		-	
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Check For Pos	sitive Stop - Cle	early Identify H	omogenous G	iroup	Date Samp	led:	4-24	11	And	1111
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Sample # HA #		Sample	e Location				Mater	ial Descript	tion	
1-1 .	440 - Li	iving RN				Dr	ywall	+ Ju	int .	compon.
1-2		Penr perk						1		
1-3	442 -	Kitchen	and the second second					/		
1-4	444 - 7	Front be	IRM				/			
1-5	448 - 6	Front be	close f							
1-6		YVAC +			cluset					
1-7	450 -	middle	bedem				1		_	
1-9	446- K	kitchen				drul	-all 1	w/ +e,	ct.	1
1-10	446-	Living R	m			walls	s +	ceiling	S	
1-11	446 -	front cli								
Client Sample # (	s):		1 - 7.	5		Tot	al # of Sa	mples:	15	
Relinquished (Cli	ent):	- Kille	Date	: 4-	26-17			Time:	Win	Dam
Received (Lab):	Kule NO.	- (	Date	: 4/2	1/12			Time:	10:00	An Flx
Comments/Speci Please utilize positive stop BillTo: Apex Environmenta Attention: Rebecca Shultz	I Management, 7 Winch	ester Court, Mauldin, S	C, 29662, US				7	1952 782		708
			ge 1 of _ U				8			

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EMSL Analytical, Inc. 376 Crompton Street

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

# 411703308

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample #	HA #		Sample Location	Material Description
1-12		446 -	Front bedrem	Dry wall up texture
1-13		446-	middle bedrem	walls & ceilings
1-14			Bathan	Plaster w/finish over
1-15		444-	Bathan	unfinished drywall
1-16	4-12	446 -	Bath Rm (no days	(Im)
1-17		448-	BathRM	
1-18		450	- BathRM	
1-19		446	- Bath KM	mastic under Shewer
1-20			1	sterll,
1-21		ST By Sea		L
1-22		440.	kitchen	Kitchen counter caulk
1-23	- Sarah	442 -		1
1-24		450 -	1	
1-25		440 -	WAR HUAC CLOSEF	wht HUAC caulk
1-26	New State	446-		1
1-27		450 -	L	1
1-28		442-	HVAC Close +	yellow HUAC mastic
1-29		448-		
1-30	1. al	450-	L	1
1-31		440-	Bath RM	Shower stall canlk
1-32	- all	444 -		
1-33		450-	1	
139				7
F35				
Please utilize pos BillTo: Apex Envi	itive stop an ronmental M	anagement, 7 Winches	ster Court, Mauldin, SC, 29662, US ail: rshultz@apex-ehs.com Purchase Order:	

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EMSL ANALYTICAL, INC.

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# Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

# 411703308

Charlotte, NC 28273 PHONE: (704) 525-2205

FAX: (704) 525-2382

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

Sample # F	IA #	Sample Location	Material Description
1-34	442-	Bath RM	Fiberglass shower stall
1-35		1	Caulk 1
1-36		_	
1-37	442 -	- kitchen	Mastic under stailess
1-38	-	)	backsplash j
1-39		1	<u> </u>
1-40	442 ~	Throughout upstairs	Black cover base
1-41		1	uf far & wht mast
1-42		L	
1-43	446-	Kitchen	Mastic under stainles.
1-44		1	backsplash 1
1-45	and the second sec	-	
1-46	446.	- Bathem	Black cover base
1-47			w/ tan mastic
1-48	Marin participation of the	L	
1-48	448	Front bed RM	window canlle
1-50	446	Front bed RM	/
1-51	A 442	Back bed Rm	
1-51 B	446	front door	Voor Canlk
1-52	446		
1-53	446	the second secon	
1-54	440	Back beden	window canlk
Please utilize positiv BillTo: Apex Environ	mental Management, 7 Wind	ns: chester Court, Mauldin, SC, 29662, US Email: rshultz@apex-ehs.com Purchase Order:	

Page 3 of 1 pages

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Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

411703308

FAX: (704) 525-2382

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

Sample #	HA # Sample Location	Material Description
1-55	ADD 440 - Kitchen	12×12 Tan speckled F.T.
1-56	446 - Living Ru	
1-57	448 - Living R	
1-58	440 - Kitchen	Black coating under
1-59	448 - Kitchen	Sinkj
1-60	446 - Kitchen	
1-61	442 - 3 bed RM3	and 12×12 Grey speckled F.T.
1-62	Hall way top	
1-63	L	
1-64	442 · Bathem	Grey Square pattern
1-65	1	viny/ floor w/ mastic
1-66	1	
1-67	442 - Kitchen	white coating under
1-160	444 - /	sink
1-69	446 - 1	1
1-70	446 - Bath Am	Grey Square Stone pattern
1-71	top layer	Vinyl floor no Imastic
1-72		
1-73	446 - Bath RM un	ver Felt paper + cream squar
1-74	wood	pattern ving/ floor
1-75		w/ mastic
10		
Please utilize posit BillTo: Apex Enviro	s/Special Instructions: tive stop analysis. onmental Management, 7 Winchester Court, Mauldin, SC, 29662, US a Shultz Phone: 864-404-3210 Email: rshultz@apex-ehs.com Purchase Ord	der:

EMSL Analytical, Inc. 376 Crompton Street

Charlotte, NC 28273

PHONE: (704) 525-2205

Page 4 Of

EMSL Order: 411703308 **EMSL** Analytical, Inc. Customer ID: AXEM25 376 Crompton Street Charlotte, NC 28273 MSI **Customer PO:** Tel/Fax: (704) 525-2205 / (704) 525-2382 Project ID: http://www.EMSL.com / charlottelab@emsl.com Attention: Nicholas Neerhof Phone: (864) 640-5274 Apex Environmental Management Fax: 7 Winchester Court Received Date: 04/27/2017 10:00 AM Mauldin, SC 29662 Analysis Date: 05/02/2017 - 05/03/2017 Collected Date: 04/24/2017 Project: Cammie Clagett #1 Building

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

Sample	Description	Non-Asbestos			Asbestos
		Appearance	% Fibrous	% Non-Fibrous	% Туре
1-1-Drywall	440 - Living Room - Drywall & Joint Compound	Gray Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
1-1-Joint Compound	440 - Living Room - Drywall & Joint	Tan Non-Fibrous		35% Ca Carbonate 63% Non-fibrous (Other)	2% Chrysotile
411703308-0001A	Compound	Homogeneous		· · · · · · · · · · · · · · · · · · ·	
1-1-Tape	440 - Living Room - Drywall & Joint Compound	Tan Non-Fibrous	100% Cellulose		None Detected
	440 - Rear Bedroom -	Homogeneous	10% Cellulose	00% Non fibrous (Other)	None Detected
1-2-Drywall	Drywall & Joint Compound	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Delected
1-2-Joint Compound	440 - Rear Bedroom - Drywall & Joint				Positive Stop (Not Analyzed
411703308-0002A	Compound				
1-2-Tape	440 - Rear Bedroom - Drywall & Joint	Tan Non-Fibrous	100% Cellulose		None Detected
411703308-0002B	Compound	Homogeneous			
1-3-Drywall	442 - Kitchen - Drywall & Joint	Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
411703308-0003	Compound	Homogeneous			
1-3-Joint Compound 411703308-0003A	442 - Kitchen - Drywall & Joint Compound				Positive Stop (Not Analyzed
1-3-Tape	442 - Kitchen - Drywall & Joint	Tan Non-Fibrous	100% Cellulose		None Detected
411703308-0003B	Compound	Homogeneous			
1-4-Drywall	444 - Front Bedroom - Drywall & Joint	Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
411703308-0004	Compound	Homogeneous			
1-4-Joint Compound	444 - Front Bedroom - Drywall & Joint				Positive Stop (Not Analyzed
411703308-0004A	Compound				
1-4-Tape	444 - Front Bedroom - Drywall & Joint Compound	Tan Fibrous Homogeneous	100% Cellulose		None Detected
	•		10% Cellulose	90% Non-fibrous (Other)	None Detected
1-5-Drywall 411703308-0005	448 - Living Room Closet - Drywall & Joint Compound	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
1-5-Joint Compound	448 - Living Room Closet - Drywall &				Positive Stop (Not Analyzed
411703308-0005A	Joint Compound				
1-5-Tape	448 - Living Room Closet - Drywall &	Tan Fibrous	100% Cellulose		None Detected
411703308-0005B	Joint Compound	Homogeneous			
1-6-Drywall	448 - HVAC & Water Heater Closet -	Gray Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected
411703308-0006	Drywall & Joint Compound	Homogeneous			

Initial report from: 05/03/2017 12:53:17



EMSL Order: 411703308 Customer ID: AXEM25 Customer PO:

Project ID:

Sample	Description	Appearance	<u>Non-Asbes</u> % Fibrous	stos % Non-Fibrous	<u>Asbestos</u> % Type
1-6-Joint Compound #11703308-0006A	448 - HVAC & Water Heater Closet - Drywall & Joint Compound				Positive Stop (Not Analyzed)
1-6-Tape 411703308-0006B	448 - HVAC & Water Heater Closet - Drywall & Joint Compound	Tan Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
1-7-Drywall	450 - Middle Bedroom - Drywall & Joint Compound	Gray Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
1-7-Joint Compound	450 - Middle Bedroom - Drywall & Joint Compound	Homogeneous			Positive Stop (Not Analyzed)
1-7-Tape	450 - Middle Bedroom - Drywall & Joint Compound	Tan Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
1-9-Drywall	446 - Kitchen - Drywall w/ Text. Walls & Ceilings	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
1-9-Joint Compound	446 - Kitchen - Drywall w/ Text. Walls & Ceilings	Tan Non-Fibrous Homogeneous		35% Ca Carbonate 63% Non-fibrous (Other)	2% Chrysotile
1-9-Tape	446 - Kitchen - Drywall w/ Text. Walls	Tan Fibrous	100% Cellulose		None Detected
411703308-00088 1-9-Texture 411703308-0008C	& Ceilings 446 - Kitchen - Drywall w/ Text. Walls & Ceilings	Homogeneous Tan Non-Fibrous Homogeneous		40% Ca Carbonate 57% Non-fibrous (Other)	3% Chrysotile
1-10-Drywall	446 - Living Room - Drywall w/ Text. Walls & Ceilings	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
1-10-Joint Compound	446 - Living Room - Drywall w/ Text. Walls & Ceilings				Positive Stop (Not Analyzed)
1-10-Texture	446 - Living Room - Drywall w/ Text. Walls & Ceilings				Positive Stop (Not Analyzed)
-11-Drywall	446 - Front Closet - Drywall w/ Text. Walls & Ceilings	Gray Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
1-11-Joint Compound	446 - Front Closet - Drywall w/ Text. Walls & Ceilings	lininggineous			Positive Stop (Not Analyzed)
-11-Tape	446 - Front Closet - Drywall w/ Text. Walls	Tan Fibrous	100% Cellulose		None Detected
1-11-Texture	& Ceilings 446 - Front Closet - Drywall w/ Text. Walls	Homogeneous			Positive Stop (Not Analyzed)
11703308-0010C	& Ceilings 446 - Front Bedroom - Drywall w/ Text. Walls & Ceilings	Gray Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-12-Joint Compound	446 - Front Bedroom - Drywall w/ Text. Walls & Ceilings	nomogeneous			Positive Stop (Not Analyzed)



Sample	Description		Non-Asbestos		<u>Asbestos</u>
		Appearance	% Fibrous	% Non-Fibrous	% Туре
1-12-Tape	446 - Front Bedroom - Drywall w/ Text. Walls	Tan Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected
411703308-0011B	& Ceilings	Homogeneous			
1-12-Texture	446 - Front Bedroom - Drywall w/ Text. Walls				Positive Stop (Not Analyzed)
411703308-0011C	& Ceilings				
1-13-Drywall	446 - Middle Bedroom - Drywall w/ Text.	Gray Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected
411703308-0012	Walls & Ceilings	Homogeneous			
1-13-Joint Compound	446 - Middle Bedroom - Drywall w/ Text.				Positive Stop (Not Analyzed)
411703308-0012A	Walls & Ceilings				
1-13-Tape	446 - Middle Bedroom - Drywall w/ Text.	Tan Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected
411703308-0012B	Walls & Ceilings	Homogeneous			
1-13-Texture	446 - Middle Bedroom - Drywall w/ Text.				Positive Stop (Not Analyzed)
411703308-0012C	Walls & Ceilings				
1-14-Skim Coat	440 - Bathroom - Plaster w/ Finish over	White Non-Fibrous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
411703308-0013	Unfinished Drywall	Homogeneous			
1-14-Rough Coat	440 - Bathroom - Plaster w/ Finish over	Gray Non-Fibrous		30% Quartz 5% Ca Carbonate 65% Non-fibrous (Other)	None Detected
	Unfinished Drywall	Homogeneous			
1-14-Drywall 411703308-0013B	440 - Bathroom - Plaster w/ Finish over Unfinished Drywall	Gray Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
	444 - Bathroom -	White		8% Ca Carbonate	None Detected
1-15-Skim Coat	Plaster w/ Finish over Unfinished Drywall	Non-Fibrous Homogeneous		92% Non-fibrous (Other)	None Detected
1-15-Rough Coat	444 - Bathroom -	Gray		25% Quartz	None Detected
411703308-0014A	Plaster w/ Finish over Unfinished Drywall	Non-Fibrous Homogeneous		5% Ca Carbonate 70% Non-fibrous (Other)	None Deteoled
1-15-Drywall	444 - Bathroom -	Gray	10% Cellulose	90% Non-fibrous (Other)	None Detected
411703308-0014B	Plaster w/ Finish over Unfinished Drywall	Non-Fibrous Homogeneous			
1-16-Skim Coat	446 - Bathroom (No	White		8% Ca Carbonate	None Detected
411703308-0015	Drywall) - Plaster w/ Finish over Unfinished Drywall	Non-Fibrous Homogeneous		92% Non-fibrous (Other)	
1-16-Rough Coat	446 - Bathroom (No	Gray		25% Quartz	None Detected
411703308-0015A	Drywall) - Plaster w/ Finish over Unfinished	Non-Fibrous Homogeneous		5% Ca Carbonate 70% Non-fibrous (Other)	
	Drywall		00/ C " .		
1-17-Drywall	448 - Bathroom - Plaster w/ Finish over	Gray Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected
	Unfinished Drywall	Homogeneous			
1-17-Skim Coat 411703308-0016A	448 - Bathroom - Plaster w/ Finish over	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
	Unfinished Drywall	Homogeneous			Nono Detected
1-17-Rough Coat	448 - Bathroom - Plaster w/ Finish over Unfinished Drywall	Gray Non-Fibrous Homogeneous		25% Quartz 5% Ca Carbonate 70% Non-fibrous (Other)	None Detected
	-				Nono Detected
1-18-Drywall 411703308-0017	450 - Bathroom - Plaster w/ Finish over Unfinished Drowall	Gray Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
+11103300-0017	Unfinished Drywall	Homogeneous			



			Non-Asbe	Non-Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
1-18-Skim Coat 411703308-0017A	450 - Bathroom - Plaster w/ Finish over Unfinished Drywall	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
1-18-Rough Coat	450 - Bathroom - Plaster w/ Finish over Unfinished Drywall	Gray Non-Fibrous Homogeneous		30% Quartz 5% Ca Carbonate 65% Non-fibrous (Other)	None Detected
1-19	446 - Bathroom - Mastic under Shower Stall	Tan Non-Fibrous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
411703308-0018 1-20 411703308-0019	446 - Bathroom - Mastic under Shower Stall	Homogeneous Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
1-22-Caulk	440 - Kitchen - Kitchen Counter	White Non-Fibrous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
411703308-0020 1-22-Black Layer	Caulk 440 - Kitchen - Kitchen Counter Caulk	Homogeneous Black Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
411703308-0020A 1-23 411703308-0021	442 - Kitchen - Kitchen Counter	Homogeneous White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
1-25	Caulk 440 - HVAC Closet - Wht HVAC Caulk	Homogeneous Tan/White Non-Fibrous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
411703308-0022 1-26 411703308-0023	446 - HVAC Closet - Wht HVAC Caulk	Homogeneous White Non-Fibrous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
1-28	442 - HVAC Closet - Yellow HVAC Mastic	Homogeneous White Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
411703308-0024 <b>1-29</b> 411703308-0025	448 - HVAC Closet - Yellow HVAC Mastic	Homogeneous White Non-Fibrous		100% Non-fibrous (Other)	None Detected
1-31	440 - Bathroom - Shower Stall Caulk	Homogeneous White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
1-32	444 - Bathroom - Shower Stall Caulk	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
1-34	442 - Bathroom - Fiberglass Shower Stall Caulk	White Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
-35	442 - Bathroom - Fiberglass Shower Stall Caulk	White Non-Fibrous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
1-37	442 - Kitchen - Mastic under Stainless	Homogeneous Tan Non-Fibrous	2% Cellulose	8% Ca Carbonate 90% Non-fibrous (Other)	None Detected
111703308-0030 1-38	Backsplash 442 - Kitchen - Mastic under Stainless	Homogeneous Tan Non-Fibrous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
411703308-0031 1-40-Cove Base 411703308-0032	Backsplash 442 - Throughout Upstairs - Black Cove Base w/ Tar & Wht Mastic	Homogeneous Black Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected



			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
1-40-Mastic 411703308-0032A	442 - Throughout Upstairs - Black Cove Base w/ Tar & Wht Mastic	Tan Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
1-41-Cove Base	442 - Throughout Upstairs - Black Cove Base w/ Tar & Wht	Black Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
1-41-Mastic 411703308-0033A	Mastic 442 - Throughout Upstairs - Black Cove Base w/ Tar & Wht	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
1-43	Mastic 446 - Kitchen - Mastic under Stainless	Beige Non-Fibrous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
411703308-0034 1-44 411703308-0035	Backsplash 446 - Kitchen - Mastic under Stainless Backsplash	Homogeneous Beige Non-Fibrous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
1-46-Cove Base	Backsplash 446 - Bathroom - Black Cove Base w/ Tan Mastic	Homogeneous Black Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
1-46-Mastic 411703308-0036A	446 - Bathroom - Black Cove Base w/ Tan Mastic	Beige Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
1-47-Cove Base	446 - Bathroom - Black Cove Base w/ Tan Mastic	Black Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
1-47-Mastic	446 - Bathroom - Black Cove Base w/ Tan Mastic	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
1-49	448 - Front Bedroom - Window Caulk	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
1-50	446 - Front Bedroom - Window Caulk	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
1-51B 411703308-0040	446 - Front Door - Door Caulk	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
1-52	446 - Front Door - Door Caulk	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
1-54	440 - Back Bedroom - Window Caulk	White/Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
1-55- Tan Floor Tile 411703308-0043	440 - Kitchen - 12x12 Tan Speckled F.T. & Mastic over 12x12 Brown Speckled F.T. & Mastic	Tan Non-Fibrous Homogeneous		35% Ca Carbonate 65% Non-fibrous (Other)	None Detected
1-55-Mastic 411703308-0043A	440 - Kitchen - 12x12 Tan Speckled F.T. & Mastic over 12x12 Brown Speckled F.T. & Mastic	Tan Non-Fibrous Homogeneous	2% Cellulose	5% Ca Carbonate 93% Non-fibrous (Other)	None Detected



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

			-			
Sample	Description	Appearance	% Fibrous	Non-Asbest	t <u>os</u> % Non-Fibrous	<u>Asbestos</u> % Type
1-55-Brown Floor Tile	440 - Kitchen - 12x12 Tan Speckled F.T. & Mastic over 12x12 Brown Speckled F.T. & Mastic	Brown Non-Fibrous Homogeneous	781101003		35% Ca Carbonate 62% Non-fibrous (Other)	3% Chrysotile
1-55-Mastic 411703308-0043C	440 - Kitchen - 12x12 Tan Speckled F.T. & Mastic over 12x12 Brown Speckled F.T. & Mastic	Black Non-Fibrous Homogeneous	2% Cel	lulose	5% Ca Carbonate 90% Non-fibrous (Other)	3% Chrysotile
1-56-Tan Floor Tile	446 - Living Room - 12x12 Tan Speckled F.T. & Mastic over 12x12 Brown Speckled F.T. & Mastic	Tan Non-Fibrous Homogeneous			30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
1-56-Mastic #11703308-0044A	446 - Living Room - 12x12 Tan Speckled F.T. & Mastic over 12x12 Brown Speckled F.T. & Mastic	Tan Non-Fibrous Homogeneous			5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
1-56-Brown Floor Tile 411703308-0044B	446 - Living Room - 12x12 Tan Speckled F.T. & Mastic over 12x12 Brown Speckled F.T. & Mastic					Positive Stop (Not Analyzed)
1-56-Mastic 411703308-0044C	446 - Living Room - 12x12 Tan Speckled F.T. & Mastic over 12x12 Brown Speckled F.T. & Mastic					Positive Stop (Not Analyzed)
1-58 411703308-0045	440 - Kitchen - Black Coating under Sink	Black Non-Fibrous Homogeneous			8% Ca Carbonate 89% Non-fibrous (Other)	3% Chrysotile
1-59	448 - Kitchen - Black Coating under Sink					Positive Stop (Not Analyzed)
411703308-0047	442 - 3 Bedrooms and Hallway Top Layer - 12x12 Grey Speckled F.T. & Mastic	Gray Non-Fibrous Homogeneous			40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
1-61-Mastic 411703308-0047A	442 - 3 Bedrooms and Hallway Top Layer - 12x12 Grey Speckled F.T. & Mastic	Tan Non-Fibrous Homogeneous	3% Cel	lulose	5% Ca Carbonate 92% Non-fibrous (Other)	None Detected
1-62-Floor Tile 411703308-0048	442 - 3 Bedrooms and Hallway Top Layer - 12x12 Grey Speckled F.T. & Mastic	Gray Non-Fibrous Homogeneous			30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
1-62-Mastic 411703308-0048A	442 - 3 Bedrooms and Hallway Top Layer - 12x12 Grey Speckled F.T. & Mastic	Tan Non-Fibrous Homogeneous			5% Ca Carbonate 95% Non-fibrous (Other)	None Detected



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

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
1-64-Flooring	442 - Bathroom - Grey Square Pattern Vinyl Floor w/ Mastic	Gray Non-Fibrous Homogeneous	10% Cellulose 1% Glass	89% Non-fibrous (Other)	None Detected
1-64-Mastic	442 - Bathroom - Grey Square Pattern	Tan Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
411703308-0049A	Vinyl Floor w/ Mastic	Homogeneous			
1-65-Flooring	442 - Bathroom - Grey Square Pattern Vinyl Floor w/ Mastic	Gray Fibrous	15% Cellulose	8% Ca Carbonate 77% Non-fibrous (Other)	None Detected
	442 - Bathroom -	Homogeneous Tan		5% Ca Carbonate	None Detected
1-65-Mastic 411703308-0050A	Grey Square Pattern Vinyl Floor w/ Mastic	Non-Fibrous Homogeneous		95% Non-fibrous (Other)	None Delected
1-67	442 - Kitchen - White Coating under Sink	White Non-Fibrous	3% Cellulose	10% Ca Carbonate 87% Non-fibrous (Other)	None Detected
411703308-0051		Homogeneous			
1-68	444 - Kitchen - White Coating under Sink	Tan Fibrous	8% Cellulose	10% Ca Carbonate 8% Mica 74% Non fibrous (Other)	None Detected
411703308-0052	116 Detherane To	Homogeneous	3% Glass	74% Non-fibrous (Other)	Nono Detector
1-70 411703308-0053	446 - Bathroom - Top Layer - Grey Square Stone Pattern Vinyl Floor, No Mastic	Gray Fibrous Homogeneous	3% Glass	10% Ca Carbonate 87% Non-fibrous (Other)	None Detected
1-71	446 - Bathroom - Top	Gray	4% Glass	96% Non-fibrous (Other)	None Detected
411703308-0054	Layer - Grey Square Stone Pattern Vinyl Floor, No Mastic	Fibrous Homogeneous			
1-73-Flooring	446 - Bathroom under Wood - Felt Paper &	Beige Non-Fibrous	10% Cellulose 1% Glass	89% Non-fibrous (Other)	None Detected
411703308-0055	Cream Square Pattern Vinyl Floor w/ Mastic	Homogeneous			
1-73-Mastic	446 - Bathroom under Wood - Felt Paper &	Tan Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
411703308-0055A	Cream Square Pattern Vinyl Floor w/ Mastic	Homogeneous			
1-73-Felt	446 - Bathroom under Wood - Felt Paper &	Black Fibrous	65% Cellulose	35% Non-fibrous (Other)	None Detected
411703308-0055B	Cream Square Pattern Vinyl Floor w/ Mastic	Homogeneous			
1-74-Flooring	446 - Bathroom under Wood - Felt Paper &	Tan Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
411703308-0056	Cream Square Pattern Vinyl Floor w/ Mastic	Homogeneous			
1-74-Mastic	446 - Bathroom under Wood - Felt Paper &	Tan Fibrous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
411703308-0056A	Cream Square Pattern Vinyl Floor w/ Mastic	Homogeneous			
1-74-Felt	446 - Bathroom under Wood - Felt Paper &	Black Fibrous	75% Cellulose	25% Non-fibrous (Other)	None Detected
411703308-0056B	Cream Square Pattern Vinyl Floor w/ Mastic	Homogeneous			



376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com EMSL Order: 411703308 Customer ID: AXEM25 Customer PO: Project ID:

Analyst(s)

Anupriya Tyagi (39) Lyterra Barrow (56)

Evan L Plumber.

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: 05/03/2017 12:53:17

376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com EMSL Order: 411703308 Customer ID: AXEM25 Customer PO: Project ID:

Attention:	Nicholas Neerhof
	Apex Environmental Management
	7 Winchester Court
	Mauldin, SC 29662

 Phone:
 (864) 640-5274

 Fax:
 Fax:

 Received Date:
 04/27/2017 10:00 AM

 Analysis Date:
 05/09/2017

 Collected Date:
 04/24/2017

Project: Cammie Clagett #1 Building

#### 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
1-21 411703308-0057	446 - Bathroom - Mastic under Shower Stall	Brown Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-24-Caulk 411703308-0058	450 - Kitchen - Kitchen Counter Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-24-Black Layer 411703308-0059	450 - Kitchen - Kitchen Counter Caulk	Black Non-Fibrous Homogeneous	99.2	0.78 Fibrous_Other	No Asbestos Detected
1-27 411703308-0060	450 - HVAC Closet - Wht HVAC Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-30 411703308-0061	450 - HVAC Closet - Yellow HVAC Mastic	Yellow Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-33 411703308-0062	450 - Bathroom - Shower Stall Caulk	White Non-Fibrous Homogeneous	99.8	0.23 Fibrous_Other	No Asbestos Detected
1-36 411703308-0063	442 - Bathroom - Fiberglass Shower Stall Caulk	White Non-Fibrous Homogeneous	100	<0.1 Fibrous_Other	No Asbestos Detected
1-39 411703308-0064	442 - Kitchen - Mastic under Stainless Backsplash	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-42-Cove Base 411703308-0065	442 - Throughout Upstairs - Black Cove Base w/ Tar & Wht Mastic	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-42-Mastic 411703308-0066	442 - Throughout Upstairs - Black Cove Base w/ Tar & Wht Mastic	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-45 411703308-0067	446 - Kitchen - Mastic under Stainless Backsplash	Beige Non-Fibrous Homogeneous	100	<0.1 Fibrous_Other	No Asbestos Detected
1-48-Cove Base 411703308-0068	446 - Bathroom - Black Cove Base w/ Tan Mastic	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected

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

Samples analyzed by EMSL Analytical, Inc. Charlotte, NC

Initial report from: 05/09/2017 12:31:41

ASB\_PLMEPANOB\_0012\_0002 Printed 5/9/2017 12:31:51PM

376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com EMSL Order: 411703308 Customer ID: AXEM25 Customer PO: Project ID:

Attention:	Nicholas Neerhof
	Apex Environmental Management
	7 Winchester Court
	Mauldin, SC 29662

 Phone:
 (864) 640-5274

 Fax:
 640-5274

 Received Date:
 04/27/2017 10:00 AM

 Analysis Date:
 05/09/2017

 Collected Date:
 04/24/2017

Project: Cammie Clagett #1 Building

#### 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
1-48-Mastic 411703308-0069	446 - Bathroom - Black Cove Base w/ Tan Mastic	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-51A 411703308-0070	442 - Back Bedroom - Window Caulk	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-53 411703308-0071	446 - Front Door - Door Caulk	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-57-Tan Floor Tile 411703308-0072	448 - Living Room - 12x12 Tan Speckled F.T. & Mastic over 12x12 Brown Speckled F.T. & Mastic	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-57-Mastic 411703308-0073	448 - Living Room - 12x12 Tan Speckled F.T. & Mastic over 12x12 Brown Speckled F.T. & Mastic	Brown Non-Fibrous Homogeneous	100	<0.57 Fibrous_Other	No Asbestos Detected
1-63-Floor Tile 411703308-0074	442 - 3 Bedrooms and Hallway - Top Layer - 12x12 Grey Speckled F.T. & Mastic	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-63-Mastic 411703308-0075	442 - 3 Bedrooms and Hallway - Top Layer - 12x12 Grey Speckled F.T. & Mastic	Tan Non-Fibrous Homogeneous	100	<0.40 Fibrous_Other	No Asbestos Detected
1-66-Flooring 411703308-0076	442 - Bathroom - Grey Square Pattern Vinyl Floor w/ Mastic	Gray Fibrous Homogeneous	100	None	No Asbestos Detected
1-66-Mastic 411703308-0077	442 - Bathroom - Grey Square Pattern Vinyl Floor w/ Mastic	White/Yellow Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-69 <i>411703308-0078</i>	446 - Kitchen - White Coating under Sink	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-72 411703308-0079	446 - Top Layer - Grey Square Stone Pattern Vinyl Floor, No Mastic	Brown/Gray Fibrous Homogeneous	100	None	No Asbestos Detected
1-75-Flooring 411703308-0080	446 - Bathroom under Wood - Felt Paper & Cream Square Pattern Vinyl Floor w/ Mastic	Beige Fibrous Homogeneous	100	None	No Asbestos Detected

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

Samples analyzed by EMSL Analytical, Inc. Charlotte, NC

Initial report from: 05/09/2017 12:31:41

EMSL Analytical, Inc. 376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382

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

EMSL Order: 411703308 Customer ID: AXEM25 Customer PO: Project ID:

Attention:	Nicholas Neerhof	Phone:	(864) 640-5274
	Apex Environmental Management	Fax:	
	7 Winchester Court	Received Date:	04/27/2017 10:00 AM
	Mauldin, SC 29662	Analysis Date:	05/09/2017
		Collected Date:	04/24/2017

Project: Cammie Clagett #1 Building

### 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
1-75-Mastic 411703308-0081	446 - Bathroom under Wood - Felt Paper & Cream Square Pattern Vinyl Floor w/ Mastic	Brown Non-Fibrous Homogeneous	100	None	No Asbestos Detected
1-75-Felt 411703308-0082	446 - Bathroom under Wood - Felt Paper & Cream Square Pattern Vinyl Floor w/ Mastic	Black Fibrous Homogeneous	100	None	No Asbestos Detected

Analyst(s)

Aaron Hartley (26)

Evan L Plumber

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: 05/09/2017 12:31:41

EMSL		Chain of Cu		EMSL Ana 376 Cromp	
EMSL ANALYTICAL, INC.	EMSL Order	Number (Laby)	se Only):	Charlotte, PHONE:	NC 28273 (704) 525-2205
LABORATORY+PRODUCTS+TRAINING	L		·		(704) 525-2382
Company Name : Apex Envi	ronmental Management	EMSL Cust	omer ID:		
Street: 7 Winchester Court		City: Maulo	din	State/Provinc	e: SC
Zip/Postal Code: 29662	Country: US	Telephone	#: 864-404-3210	Fax #:	
Report To (Name): Om	Oliver	Please Prov	vide Results: 🔲 F	ax 🗹 Email	
Email Address: toliver	Papex-ehs.com	Purchase C	Order:		
Project Name/Number: Car	nmie Clage H Blog 1		ect ID (Internal Use C		
U.S. State Samples Taken:	EMSL-Bill to: Same Diffe		s: Commercial/Ta		lential/lax Exempt
	Third Party Billing requi	ires written authorizatio	on from third party	inonio	ma and a local
3 Hour 6 Hou		(TAT) Options* – P Hour 72 Ho		1 Week	2 Week
	ase call ahead to schedule.*There is a	premium charge for 3 H	our TEM AHERA or EPA	Level II TAT. You w	vill be asked to sign an
authorization form for thi PCM - Air Check if samples	is service. Analysis completed in acco	ordance with EMSL's Tel	rms and Conditions locate	ed in the Analytical P	Price Guide.
from NY	$\frac{\text{TEM} - \text{Air}}{4-4.5\text{hr}}$	r TAT (AHERA only)	TEM-Dust		
NIOSH 7400	AHERA 40 CFR, F	Part 763	Microvac - AST	M D 5755	
w/ OSHA 8hr. TWA	NIOSH 7402		Wipe - ASTM D	06480	
PLM _ Bulk (reporting limit)	EPA Level II		Carpet Sonication (EPA 600/J-93/167)		
PLM EPA 600/R-93/116 (<1			Soil/Rock/Vermiculite		
PLM EPA NOB (<1%)	TEM - Bulk		PLM EPA 600/R-93/116 with milling prep (<1%)		
Point Count		an frickle NIX	iable-NY)		
☐400 (<0.25%) ☐1000 (<0.1 Point Count w/Gravimetric	1%) NYS NOB 198.4 (n Chatfield SOP	non-friable-INY)	Personal State of Sta	e via Filtration Pr	
400 (<0.25%) 1000 (<0.		is-EPA 600 sec. 2.5		e via Drop Mount	
NYS 198.1 (friable in NY)	TEM - Water: EPA 10	For the second of the line of the	Cincinnati Meth		4/004 - PLM/TEM
NYS 198.6 NOB (non-friabl			(BC only) Other:	and the second second	
NYS 198.8 SOF-V					
NIOSH 9002 (<1%)	All Fiber Sizes Wa	aste Drinking	and in the second second		
Check For Positive Stop -	- Clearly Identify Homogenous	Group Filter	Pore Size (Air Sam	ples): 0.8µ	m 🔲 0.45µm
Samplers Name: 10m	n Oliver	Sampler	s Signature	1 m	<u>n an an an</u>
			Volu	me/Area (Air)	Date/Time
Sample #	Sample De		H	A # (Bulk)	Sampled
1- 85 K	of shingles (3).	stell (1)	Pl	m	
1 86 3	-awing			1	
1 87				Em	
	And the second states and the		a nor shall be and		S. E. S. A.
	ST BALL	Las angles		10	51
Client Sample # (s):	5-87 + 9	2005 91-	105 Total #	of Samples:	18
Relinquished (Client):	1	Date: 12-4		Time:	
Received (Lab):	H	Date: 12 (0)	17	Time:	9pm
Comments/Special Instructio	ins:	GETY-	7952-0-	811182	~
		-0.7	115571	04100	
	Page	e 1 of 2 pages			

Controlled Document - Asbestos COC - R10 - 05/09/2016

OrderID: 021707749

	Asbestos Chain of Custody	376 Cro
EMSL	EMSL Order Number (Lab Use Only):	Charlott
EN EMSL ANALYTICAL, INC.	[//49]	PHONE: FAX:

EMSL Analytical, Inc. 376 Crompton Street

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1-88	Sample #'s not used		
89	. 1		
90			ALC: Chempe
91	Flashing + awning Calle	pin	
92		1	
93		FEM	
94	Roof geble vost calle - ulite	PLM	
95	+ gray	1	
96		TEM	
97	Paint cooted metal - Vent popes	pin	
98	]		
99		1	ANDERS
100	Black & gray mastic on root	phon	
10\$	penetrations	[	
102	L	TEM	
1027	HUAC tope w/ mosta	TEM PLNy I	
104	1		alle series and
- 105		TEM	1. A.
		Contract (Sec	
Markey Street			San States
*Comments/Special Ins	structions:		and the second second
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	Page 2 of 2 pages	and the second	

Controlled Document - Asbestos COC - R10 - 05/09/2016

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com Attention: Tom Oliver

Apex Environmental Management

7 Winchester Court Mauldin, SC 29662

Project: Cammie Clagett Bldg. 38

EMSL Order: 021707770 Customer ID: AXEM25 Customer PO: Project ID:

Phone:	(864) 640-5274
Fax:	
Received Date:	12/06/2017 9:00 AM
Analysis Date:	12/13/2017
Collected Date:	12/04/2017

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

		Asbestos			
Sample	Description	Appearance	<u>Non-Asbe</u> % Fibrous	% Non-Fibrous	% Туре
38-1-Drywall	Drywall/Joint Compound/Tape	Brown/Gray Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
021707770-0001		Heterogeneous			
38-1-Joint Compound	Drywall/Joint Compound/Tape	Beige Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 66% Non-fibrous (Other)	3% Chrysotile
38-2-Drywall	Drywall/Joint	Brown/Gray	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707770-0002	Compound/Tape	Fibrous Heterogeneous			
38-2-Joint Compound	Drywall/Joint Compound/Tape	-			Positive Stop (Not Analyzed)
021707770-0002A	compound, rapo				
38-3-Drywall	Drywall/Joint Compound/Tape	Brown/Gray Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
021707770-0003	Drawell/Jaint	Heterogeneous			
38-3-Joint Compound	Drywall/Joint Compound/Tape				Positive Stop (Not Analyzed)
021707770-0003A	Drywall/Joint	Brown/Crov	15% Cellulose	95% Non fibrous (Other)	None Detected
38-4-Drywall	Compound/Tape	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
38-4-Joint Compound	Drywall/Joint	notorogonoodo			Positive Stop (Not Analyzed)
	Compound/Tape				
021707770-0004A	Drywall/Joint	Brown/Crov	200/ Collulana	80% Non-fibrous (Other)	None Detected
38-5-Drywall	Compound/Tape	Brown/Gray Fibrous Heterogeneous	20% Cellulose	80% Non-Indious (Other)	None Detected
	Denuell/Jaint	Tieleiogeneous			
38-5-Joint Compound	Drywall/Joint Compound/Tape				Positive Stop (Not Analyzed)
021707770-0005A 38-6-Drywall	Drywall/Joint	Brown/Gray	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707770-0006	Compound/Tape	Fibrous			None Delected
	Descuell/Leist	Heterogeneous			
38-6-Joint Compound	Drywall/Joint Compound/Tape				Positive Stop (Not Analyzed)
021707770-0006A 38-7-Drywall	Drywall/Joint	Brown/Gray	20% Cellulose	80% Non-fibrous (Other)	None Detected
	Compound/Tape	Fibrous	2070 06110036		None Detected
38-7-Joint Compound	Drywall/Joint	Heterogeneous			Positive Stop (Not Analyzed)
	Compound/Tape				
021707770-0007A					
38-8-Skim Coat	Plaster w/ Finish Over Unfinished Drywall	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707770-0008		Homogeneous			
38-8-Rough Coat	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray/Tan Non-Fibrous	1% Cellulose	30% Quartz 69% Non-fibrous (Other)	None Detected
021707770-0008A		Heterogeneous			



706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com EMSL Order: 021707770 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

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
38-8-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707770-0008B		Heterogeneous			
38-9-Skim Coat	Plaster w/ Finish Over Unfinished Drywall	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707770-0009		Homogeneous			
38-9-Rough Coat	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray/Tan Non-Fibrous	1% Cellulose	30% Quartz 69% Non-fibrous (Other)	None Detected
021707770-0009A		Heterogeneous			
88-9-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous	10% Cellulose 1% Glass	89% Non-fibrous (Other)	None Detected
021707770-0009B		Heterogeneous			
38-10-Skim Coat	Plaster w/ Finish Over Unfinished Drywall	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707770-0010		Homogeneous			
38-10-Rough Coat	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray/Tan Non-Fibrous	1% Cellulose	30% Quartz 69% Non-fibrous (Other)	None Detected
	Director w/ Finish O	Heterogeneous		950/ Non Shrows (Other)	Nono Detector
38-10-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
	Planter w/ Finish Ourse	•	<10/ Callulate	200/ Co Corboneta	Neno Detected
38-11-Texture	Plaster w/ Finish Over Unfinished Drywall	White/Beige Non-Fibrous Homogeneous	<1% Cellulose	30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
	Plaster w/ Finish Over	White		10% Ca Carbonate	None Detected
38-11-Skim Coat	Unfinished Drywall	Non-Fibrous Homogeneous		90% Non-fibrous (Other)	None Delected
	Plaster w/ Finish Over	Brown/Gray/Tan	1% Cellulose	30% Ca Carbonate	None Detected
88-11-Rough Coat	Unfinished Drywall	Non-Fibrous Heterogeneous		69% Non-fibrous (Other)	None Delected
38-11-Drywall	Plaster w/ Finish Over	Brown/Gray	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707770-0011C	Unfinished Drywall	Fibrous Heterogeneous			
38-12-Skim Coat	Plaster w/ Finish Over	White		20% Ca Carbonate	None Detected
021707770-0012	Unfinished Drywall	Non-Fibrous Homogeneous		80% Non-fibrous (Other)	
38-12-Rough Coat	Plaster w/ Finish Over	Gray/Tan		30% Quartz	None Detected
	Unfinished Drywall	Non-Fibrous		70% Non-fibrous (Other)	
021707770-0012A		Heterogeneous			
38-12-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707770-0012B		Heterogeneous			
38-13-Floor Tile	12x12 Tan Speckled Floor Tile/Mastic	Tan/Beige Non-Fibrous		25% Quartz 75% Non-fibrous (Other)	None Detected
021707770-0013		Homogeneous			
38-13-Mastic	12x12 Tan Speckled Floor Tile/Mastic	Yellow Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707770-0013A		Homogeneous			
38-14-Floor Tile	12x12 Tan Speckled Floor Tile/Mastic	Tan/Beige Non-Fibrous		25% Quartz 75% Non-fibrous (Other)	None Detected
021707770-0014		Homogeneous			
38-14-Mastic	12x12 Tan Speckled Floor Tile/Mastic	Yellow Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707770-0014A 38-16-Floor Tile	12x12 Cream Floor	Homogeneous Beige		25% Quartz	None Detected
021707770-0016	Tile/Mastic	Non-Fibrous Homogeneous		75% Non-fibrous (Other)	



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

			Non-Asbes	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
38-16-Mastic	12x12 Cream Floor Tile/Mastic	Black/Yellow Non-Fibrous	<1% Cellulose	98% Non-fibrous (Other)	2% Chrysotile
021707770-0016A		Heterogeneous			
38-17-Floor Tile	12x12 Cream Floor Tile/Mastic	Beige Non-Fibrous		25% Quartz 75% Non-fibrous (Other)	None Detected
021707770-0017		Homogeneous			
88-17-Mastic	12x12 Cream Floor Tile/Mastic				Positive Stop (Not Analyzed)
21707770-0017A	10v10 Doigo Floor	Top (M/bito		25% Quartz	Nana Datastad
88-19-Floor Tile	12x12 Beige Floor Tile/Mastic	Tan/White Non-Fibrous		75% Non-fibrous (Other)	None Detected
		Homogeneous			40/ Observe tille
88-19-Mastic	12x12 Beige Floor Tile/Mastic	Black/Gold/Orange Non-Fibrous	<1% Cellulose <1% Synthetic	100% Non-fibrous (Other)	<1% Chrysotile
21707770-0019A		Heterogeneous		057/ 0	
38-20-Floor Tile	12x12 Beige Floor Tile/Mastic	Tan/White Non-Fibrous		25% Quartz 75% Non-fibrous (Other)	None Detected
	10v10 Doing Flags	Homogeneous		00% Non Shares (Others)	
38-20-Mastic	12x12 Beige Floor Tile/Mastic	Black/Orange Non-Fibrous	<1% Cellulose	98% Non-fibrous (Other)	2% Chrysotile
	40.40 Linkt Tan Flags	Homogeneous		25% Outsta	News Detected
88-22-Floor Tile	12x12 Light Tan Floor Tile/Mastic	Beige Non-Fibrous		25% Quartz 75% Non-fibrous (Other)	None Detected
21707770-0022		Homogeneous			
8-22-Mastic	12x12 Light Tan Floor Tile/Mastic	Yellow/Gold Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707770-0022A		Homogeneous			
38-23-Floor Tile	12x12 Light Tan Floor Tile/Mastic	Beige Non-Fibrous		25% Quartz 75% Non-fibrous (Other)	None Detected
		Homogeneous		4000/ New Shrave (Other)	News Detected
38-23-Mastic	12x12 Light Tan Floor Tile/Mastic	Yellow Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
	Bathroom Sink Caulk	Homogeneous White		100% Non-fibrous (Other)	None Detected
38-24-B 221707770-0025	Bathoon Sink Cauk	Non-Fibrous Homogeneous			None Delected
	Bathroom Sink Caulk		<1% Cellulose	100% Non fibrous (Other)	None Detected
38-25	Bathroom Sink Caulk	Tan/White/Beige Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Delected
	Shower Stall Caulk	White/Beige		100% Non-fibrous (Other)	None Detected
38-27 21707770-0028	Shower Stail Caulk	Non-Fibrous Homogeneous			None Delected
38-28	Shower Stall Caulk	White/Beige	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707770-0029		Non-Fibrous Homogeneous			
38-30	Kitchen Counter Caulk	White/Beige Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707770-0031	Jaun	Homogeneous			
38-31	Kitchen Counter Caulk	Tan/Beige Non-Fibrous	3% Cellulose	97% Non-fibrous (Other)	None Detected
21707770-0032	Jaun	Homogeneous			
38-33-Caulk	HVAC Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0034		Homogeneous			
38-33-Joint Compound	HVAC Caulk	Tan Non-Fibrous	1% Cellulose	30% Ca Carbonate 66% Non-fibrous (Other)	3% Chrysotile
021707770-0034A		Homogeneous			



.

EMSL Order: 02170770 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

			Non-Asbe	estos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
38-34	HVAC Caulk	Tan/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38-36-Tape	HVAC Tape/Mastic	Gray/Tan/Silver Fibrous	80% Cellulose	20% Non-fibrous (Other)	None Detected
021707770-0037		Heterogeneous			
38-36-Mastic	HVAC Tape/Mastic	Tan/Yellow/Gold Non-Fibrous	3% Cellulose	97% Non-fibrous (Other)	None Detected
38-37-Tape	HVAC Tape/Mastic	Homogeneous Gray/Tan/Silver Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected
021707770-0038		Heterogeneous			
38-37-Mastic	HVAC Tape/Mastic	Yellow/Gold Non-Fibrous	3% Cellulose	97% Non-fibrous (Other)	None Detected
021707770-0038A		Homogeneous			
38-39	Black Sink Coating	Black Non-Fibrous	<1% Cellulose	98% Non-fibrous (Other)	2% Chrysotile
021707770-0040	Direct Ofen Court	Homogeneous			
38-40	Black Sink Coating				Positive Stop (Not Analyzed)
021707770-0041					
38-42	Interior Window Caulk-White	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0043		Homogeneous			
38-43	Interior Window Caulk-White	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38-45-Shingle 1	Roof/Awning	Brown/Tan/Red	8% Glass	92% Non-fibrous (Other)	None Detected
021707770-0046	Shingles/Felt	Fibrous Heterogeneous	070 01000		
38-45-Shingle 2	Roof/Awning Shingles/Felt	Brown/Tan/Red Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
021707770-0046A		Heterogeneous			
38-45-Shingle 3	Roof/Awning Shingles/Felt	Gray/Black Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
	Roof/Awning	Heterogeneous Black	70% Cellulose	30% Non fibrous (Other)	None Detected
38-45-Felt 021707770-0046C	Shingles/Felt	Fibrous Heterogeneous	70% Cellulose	30% Non-fibrous (Other)	None Delected
38-46-Shingle 1	Roof/Awning Shingles/Felt	Brown/Tan/Red Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
021707770-0047	5	Heterogeneous			
38-46-Shingle 2	Roof/Awning Shingles/Felt	Brown/Tan/Red Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
021707770-0047A		Heterogeneous			
38-46-Shingle 3	Roof/Awning Shingles/Felt	Gray/Black Fibrous Heterogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
38-46-Felt	Roof/Awning	Black	70% Cellulose	30% Non-fibrous (Other)	None Detected
021707770-0047C	Shingles/Felt	Fibrous Heterogeneous			None Delected
38-48	Painted Metal	Gray		100% Non-fibrous (Other)	None Detected
	Pipe-Vent Pipes	Non-Fibrous			
021707770-0049 38-49	Painted Metal	Homogeneous Gray		100% Non-fibrous (Other)	None Detected
021707770-0050	Pipe-Vent Pipes	Non-Fibrous Homogeneous			



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

			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
38-51	Black Mastic on Roof Penetrations	Black Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707770-0052		Heterogeneous			
38-52	Black Mastic on Roof Penetrations	Black Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707770-0053		Heterogeneous			
38-57	Awning/Flashing Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0055		Homogeneous			
38-58	Awning/Flashing Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0056		Homogeneous			
38-60	Interior/Exterior Brown Caulk	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0058		Homogeneous			
38-61	Interior/Exterior Brown Caulk	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0059		Homogeneous			
38-63	Door Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0061		Homogeneous			
38-64	Door Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0062		Homogeneous			
38-66	Roof Goble Vent Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0064		Homogeneous			
38-67	Roof Goble Vent Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0065		Homogeneous			

Analyst(s)

James Cole (26) Scott Combs (49)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. 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. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

EMSL

Attention: Tom Oliver

## EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com

Apex Environmental Management

EMSL Order: 021707770 Customer ID: AXEM25 Customer PO: Project ID:

 Phone:
 (864) 640-5274

 Fax:
 Fax:

 Received Date:
 12/06/2017 9:00 AM

 Analysis Date:
 12/11/2017 - 12/13/2017

 Collected Date:
 12/04/2017

Project: Cammie Clagett Bldg. 38

7 Winchester Court

Mauldin, SC 29662

#### 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
38-15-Floor Tile 021707770-0015	12x12 Tan Speckled Floor Tile/Mastic	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
38-15-Mastic 021707770-0015A	12x12 Tan Speckled Floor Tile/Mastic	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
38-18-Floor Tile 021707770-0018	12x12 Cream Floor Tile/Mastic	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
38-18-Mastic 021707770-0018A	12x12 Cream Floor Tile/Mastic				
Positive	Stop (Not Analyzed)				
38-21-Floor Tile 021707770-0021	12x12 Beige Floor Tile/Mastic	Tan/Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
38-21-Mastic 021707770-0021A	12x12 Beige Floor Tile/Mastic				
Positive	Stop (Not Analyzed)				
38-24A-Floor Tile 021707770-0024	12x12 Light Tan Floor Tile/Mastic	Gray/Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
38-24A-Mastic 021707770-0024A	12x12 Light Tan Floor Tile/Mastic	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
38-26 021707770-0027	Bathroom Sink Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
38-29 021707770-0030	Shower Stall Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
38-32 021707770-0033	Kitchen Counter Caulk	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
38-35 021707770-0036	HVAC Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected

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

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 12/13/2017 10:40:42

ASB\_PLMEPANOB\_0012\_0002 Printed 12/13/2017 10:41:00AM

EMSL

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com EMSL Order: 021707770 Customer ID: AXEM25 Customer PO: Project ID:

 Attention:
 Tom Oliver
 Phone:
 (864) 640-5274

 Apex Environmental Management
 Fax:
 Fax:
 7

 7 Winchester Court
 Received Date:
 12/06/2017 9:00 AM

 Mauldin, SC 29662
 Analysis Date:
 12/11/2017 - 12/13/2017

 Collected Date:
 12/04/2017

Project: Cammie Clagett Bldg. 38

#### 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
38-38-Tape 021707770-0039	HVAC Tape/Mastic	Silver Non-Fibrous Homogeneous	100	None	No Asbestos Detected
38-38-Mastic 021707770-0039A	HVAC Tape/Mastic	Beige Fibrous Heterogeneous	100	None	No Asbestos Detected
38-41 021707770-0042	Black Sink Coating				
Positive	Stop (Not Analyzed)				
38-44 021707770-0045	Interior Window Caulk-White	White Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
38-47-Shingle 1 021707770-0048	Roof/Awning Shingles/Felt	Brown/Tan/Red Fibrous Heterogeneous	100	None	No Asbestos Detected
38-47-Shingle 2 021707770-0048A	Roof/Awning Shingles/Felt	Brown/Tan/Red Fibrous Heterogeneous	100	None	No Asbestos Detected
38-47-Shingle 3 021707770-0048B	Roof/Awning Shingles/Felt	Black Fibrous Heterogeneous	100	None	No Asbestos Detected
38-47-Felt 021707770-0048C	Roof/Awning Shingles/Felt	Black Fibrous Homogeneous	100	None	No Asbestos Detected
38-50 021707770-0051	Painted Metal Pipe-Vent Pipes	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected
38-53 021707770-0054	Black Mastic on Roof Penetrations	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
38-59 021707770-0057	Awning/Flashing Caulk	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected
38-62 021707770-0060	Interior/Exterior Brown Caulk	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

 EMSL Analytical, Inc.

 706 Gralin Street Kernersville, NC 27284

Apex Environmental Management

Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com EMSL Order: 021707770 Customer ID: AXEM25 Customer PO: Project ID:

Project: Cammie Clagett Bldg. 38

7 Winchester Court

Mauldin, SC 29662

Attention: Tom Oliver

#### 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
38-65	Door Caulk	Gray/Tan	100	None	No Asbestos Detected
021707770-0063		Non-Fibrous			
		Heterogeneous			
38-68	Roof Goble Vent Caulk	Beige	100	None	No Asbestos Detected
021707770-0066		Non-Fibrous			
		Heterogeneous			

Analyst(s)

Stephen Bennett (23)

Stephen Bennett, 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. Kernersville, NC

EMS

EMSL ANALYTICAL, INC.

Page 1 Of

EMSL Analytical, Inc. 376 Crompton Street

Asbestos Bulk B	Building	Material
Chain of	Custod	y

EMSL Order Number (Lab Use Only):

## 411703312

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

		1111032	
Company : Apex Environ	mental Management		EMSL-Bill to: Same I Different
Street: 7 Winchester Cou	urt	Third	d Party Billing requires written authorization from third party
City: Mauldin	State/Provin		I Code: 29662 Country: US
Report To (Name): Nicho		Telephone	e #:864-404-3210
Email Address: nneerho	of@apex-ehs.com	Fax #:	Purchase Order:
Project Name/Number: Co	ammie Clagett Build	ing 2 Please Pro	ovide Results: Fax ✔ Email Mail es: Commercial/Taxable Residential/Tax Exemp
U.S. State Samples Taker		nd Time (TAT) Options*	
☐ 3 Hour ☐ 6 Hou	r 24 Hour	48 Hour 72 H	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 fo	or 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign 's Terms and Conditions located in the Analytical Price Guide.
	k (reporting limit)		TEM – Bulk
PLM EPA 600/R-93/116	the second se	TEM EPA	NOB - EPA 600/R-93/116 Section 2.5.5.1
□ PLM EPA NOB (<1%)	an a	NY ELAP	Method 198.4 (TEM)
Point Count	5%) 🗌 10 <mark>00 (&lt;0.1%)</mark>		Protocol (semi-quantitative)
Point Count w/Gravimetric	□ 400 (<0.25%) □ 1000	A 12 YO REPORTED A CONTRACT OF A CONTRACT OF A DESCRIPTION OF A DESCRIPTIO	y Mass – EPA 600/R-93/116 Section 2.5.5.2
□ NIOSH 9002 (<1%)		and the second	litative via Filtration Prep Technique
NY ELAP Method 198.		TEM Qua	litative via Drop Mount Prep Technique
OSHA ID-191 Modified	entered was and the state of the second state of the second state of the second state of the second state of the		Other
Standard Addition Meth			
			e Sampled: 4-24-17
Check For Positive St	1	nogenous Group   Date	e Sampled: 9-29-17
Samplers Name: Nich	olas Neerhot	Sample	ers Signature:
Sample # HA #	Sample L		Material Description
2-1 ir	iterior metal w	indor Casings 1	Black Chulk
2-2			
2-3			_
	ooden door casi,	PALATAN	1 Grey caulk 1
2-5	un un casi,	S CATORIAN	Grey Carrie
			1
2-6			
	citchen count	cr	white could
2-8			
2-9			4
2-10	kitchen S	inK	Black coating on sink
Client Sample # (s):	2-1	11- 2-62	Total # of Samples: 56
Relinquished (Client):	Sechak Miles	L Date: 4-20	e-17 Time: 10:00am
Received (Lab):	Nbo	O Date: 4/27	
Comments/Special Instru Please utilize positive stop analysis. BillTo: Apex Environmental Managemer Attention: Rebecca Shultz Phone: 864-4	it, 7 Winchester Court, Mauldin, SC, 29	9662, US	7952 7822 3693
	Page	1 of <u>3</u> pages	

OrderID: 411703312

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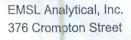
EMSL ANALYTICAL, INC.

Page 2 Of

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

411703312



Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample #	HA #		Sample Location		Material Desc	
12-11		kite	hen sink 1		Black conting	on sink 1
2-13	1.1.1		0			
2-20		HVAC	system close	$z \neq 1$	HVAC MSSLic	
2-21	5					
2-22	3.8			Ţ		
2-123		Fhre	sushout interior	$\sim$ 1	Drynell, JC and	upe,
2-24				19		
2-25						Ŧ
2-26	1.50	Station and	philas			
2-27						
2-28		Serie Room	a stand and a second		and the stand of the states	
2-29		and a state of the		L		
2-30		under	kitchen sink	- 1	white costing or	sinki
2-31						
2-32						4
2-33 2-34		etterlor.	window casings	1	Black Caulk	Λ
2-34		me	+61			
2-35				1		4
2-36	2.18	14	Litchen	1	white mastic on	back Splash)
2-37			1. California			
2-37 2-38				L		2
2-39		K:	tchen		wall covering be	hind, back splast
2-40					,	
2-41				1		Ŧ
Please utilize pos BillTo: Apex Envir	itive stop ana ronmental Ma	nagement, 7 Wincheste	r Court, Mauldin, SC, 29662, US : rshultz@apex-ehs.com Purchase Orde	er.		

OrderID: 411703312

Page 3 Of



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

41170 3312

EMSL Analytical, Inc. 376 Crompton Street 3

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample #	HA #	Sample Location	Material Description
2-42		upstairs bathroom toon	Large Square rock pattern
2-43			ving floor w/ mastic
2-44		+	
2-45		upstairs bathem	Batham stall plastic
2-46			w/ mastic
2-47			
2-48		upstairs bathem	Tan large square pattern
2-49			Tan large square pattern ving 1 floor w/ mastic
2-50			L L
2-51		upstairs bathiam	cove. base mastic
2-52			
2.53	ar entre		
2-54		upstairs bath pm	Plaster w/ finish
2-55			
2-56			
2-57		posters batham shower	white cank
2-58	£	Stall	
2-59		L	
2-60		exterior prick.	grey penetration canlk
2-61		penetrations by awning	
2-62			
Please utilize pos BillTo: Apex Envi	sitive stop anal ronmental Mar	I Instructions: ysis. nagement, 7 Winchester Court, Mauldin, SC, 29662, US ne: 864-404-3210 Email: rshultz@apex-ehs.com Purchase Order:	

Page 3 of 3 pages

EMSL Order: 411703312 **EMSL** Analytical, Inc. Customer ID: AXEM25 376 Crompton Street Charlotte, NC 28273 MSI **Customer PO:** Tel/Fax: (704) 525-2205 / (704) 525-2382 Project ID: http://www.EMSL.com / charlottelab@emsl.com Attention: Nicholas Neerhof Phone: (864) 640-5274 Apex Environmental Management Fax: 7 Winchester Court Received Date: 04/27/2017 10:00 AM Mauldin, SC 29662 Analysis Date: 05/02/2017 - 05/03/2017 Collected Date: 04/24/2017 Project: Cammie Clagett Building #2

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

			Non-Asbe		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
2-1 411703312-0001	Interior Metal Window Casings - Black Caulk	Tan/Black Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
		Homogeneous			
2-2 411703312-0002	Interior Metal Window Casings - Black Caulk	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
2-4	Wooden Door Casings - Exterior -	Gray Fibrous		97% Non-fibrous (Other)	3% Chrysotile
411703312-0003	Grey Caulk	Homogeneous			
2-5 411703312-0004	Wooden Door Casings - Exterior -				Positive Stop (Not Analyzed)
	Grey Caulk				
2-7 411703312-0005	Kitchen Counter - White Caulk	Tan/White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
2-8	Kitchen Counter -	White		10% Ca Carbonate	None Detected
2-8 411703312-0006	White Caulk	Non-Fibrous Homogeneous		90% Non-fibrous (Other)	None Detected
	Kitahan Olah Diada	J.			
2-10 411703312-0007	Kitchen Sink - Black Coating on Sink	Black Fibrous		30% Ca Carbonate 66% Non-fibrous (Other)	4% Chrysotile
		Homogeneous			
2-11	Kitchen Sink - Black Coating on Sink				Positive Stop (Not Analyzed)
411703312-0008					
2-20 411703312-0009	HVAC System Closet - HVAC Mastic	Tan/White Fibrous Homogeneous		25% Ca Carbonate 70% Non-fibrous (Other)	5% Chrysotile
		Homogeneous			
2-21	HVAC System Closet - HVAC Mastic				Positive Stop (Not Analyzed)
411703312-0010	Thursday the test	D	400/ O - II- I		News Datastad
2-23-Drywall	Throughout Interior - Drywall, JC and Tape	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
411703312-0011 No tape present		Homogeneous			
2-23-Joint Compound	Throughout Interior - Drywall, JC and Tape	White Non-Fibrous		35% Ca Carbonate 65% Non-fibrous (Other)	<1% Chrysotile
411703312-0011A		Homogeneous			
2-24-Drywall	Throughout Interior - Drywall, JC and Tape	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
411703312-0012 No tape present		Homogeneous			
	Thursday the test	Tan			00/ 01
2-24-Joint Compound	Throughout Interior - Drywall, JC and Tape	Tan Fibrous Homogeneous		35% Ca Carbonate 63% Non-fibrous (Other)	2% Chrysotile
2-25-Drywall	Throughout Interior -	Brown/Gray	10% Cellulose	90% Non-fibrous (Other)	None Detected
	Drywall, JC and Tape	Fibrous Homogeneous			



EMSL Order: 411703312 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

			Non-Asbes		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
2-25-Joint Compound	Throughout Interior - Drywall, JC and Tape				Positive Stop (Not Analyzed)
2-25-Tape	Throughout Interior - Drywall, JC and Tape	Tan Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected
11703312-0013B	Drywall, 50 and Tape	Homogeneous			
2-26-Drywall	Throughout Interior - Drywall, JC and Tape	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
11703312-0014		Homogeneous			
lo tape present					
-26-Joint Compound	Throughout Interior - Drywall, JC and Tape				Positive Stop (Not Analyzed)
11703312-0014A					
2-27-Drywall	Throughout Interior - Drywall, JC and Tape	Gray Non-Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
11703312-0015		Homogeneous			
2-27-Joint Compound	Throughout Interior - Drywall, JC and Tape				Positive Stop (Not Analyzed)
11703312-0015A			4004 0		
2-28-Drywall	Throughout Interior - Drywall, JC and Tape	Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
11703312-0016 No tape present		Homogeneous			
-28-Joint Compound	Throughout Interior - Drywall, JC and Tape				Positive Stop (Not Analyzed)
11703312-0016A	Theoreman	0	100/ Callulana	00% Neg fibroug (Other)	Nere Detected
-29-Drywall	Throughout Interior - Drywall, JC and Tape	Gray Non-Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
11703312-0017 lo joint compound/tape prese	ent	Homogeneous			
		\\/bito		00% Non fibrous (Other)	None Detected
-30 11703312-0018	Under Kitchen Sink - White Coating on Sink	White Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
	Under Kitchen Sink -	White	5% Cellulose	5% Ca Carbonate	None Detected
-31	White Coating on Sink	Non-Fibrous Homogeneous	5% Cellulose	90% Non-fibrous (Other)	None Detected
2-33	Exterior Metal	Black		100% Non-fibrous (Other)	None Detected
-33	Window Casings - Black Caulk	Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
-34	Exterior Metal	Black		5% Ca Carbonate	None Detected
-34 11703312-0021	Window Casings - Black Caulk	Non-Fibrous Homogeneous		95% Non-fibrous (Other)	None Delected
-36	Kitchen - White Mastic on Backsplash	White Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
11703312-0022		Homogeneous			
-37	Kitchen - White Mastic on Backsplash	White Non-Fibrous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
11703312-0023		Homogeneous			
-39-Drywall	Kitchen - Wall Covering behind	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
11703312-0024	Backsplash	Homogeneous			
2-39-Joint Compound	Kitchen - Wall Covering behind	White Fibrous		30% Ca Carbonate 68% Non-fibrous (Other)	2% Chrysotile
11703312-0024A	Backsplash	Homogeneous			
2-39-Tape	Kitchen - Wall Covering behind	Tan Fibrous	95% Cellulose	5% Non-fibrous (Other)	None Detected
11703312-0024B	Backsplash	Homogeneous			



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

			Non-Asbe	stos	Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
2-40-Drywall	Kitchen - Wall Covering behind Backsplash	Brown/Gray Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected	
2-40-Joint Compound	Kitchen - Wall Covering behind				Positive Stop (Not Analyzed)	
411703312-0025A	Backsplash					
2-40-Tape	Kitchen - Wall Covering behind	Tan Fibrous	95% Cellulose	5% Non-fibrous (Other)	None Detected	
411703312-0025B	Backsplash	Homogeneous				
2-41-Drywall 411703312-0026	Kitchen - Wall Covering behind Backsplash	Brown/Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected	
2-41-Joint Compound	Kitchen - Wall Covering behind	Homogeneous			Positive Stop (Not Analyzed)	
411703312-0026A	Backsplash					
2-41-Tape	Kitchen - Wall Covering behind	Tan Fibrous	100% Cellulose		None Detected	
411703312-0026B	Backsplash	Homogeneous				
2-42-Flooring 411703312-0027	Upstairs Bathroom Floor - Large Square Rock Pattern Vinyl Floor w/ Mastic	White Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected	
2-42-Mastic	Upstairs Bathroom	Tan/Clear	<1% Cellulose	100% Non-fibrous (Other)	None Detected	
411703312-0027A	Floor - Large Square Rock Pattern Vinyl Floor w/ Mastic	Fibrous Homogeneous				
2-43	Upstairs Bathroom				Not Submitted	
411703312-0028	Floor - Large Square Rock Pattern Vinyl Floor w/ Mastic					
2-45-Flooring	Upstairs Bathroom - Bathroom Stall Plastic	White Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected	
411703312-0029	w/ Mastic	Homogeneous				
2-45-Mastic	Upstairs Bathroom - Bathroom Stall Plastic w/ Mastic	Tan Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected	
2-46-Flooring	Upstairs Bathroom -	White/Beige	3% Glass	8% Ca Carbonate	None Detected	
411703312-0030	Bathroom Stall Plastic w/ Mastic	Fibrous Homogeneous		89% Non-fibrous (Other)		
2-46-Mastic	Upstairs Bathroom - Bathroom Stall Plastic	Tan Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected	
411703312-0030A	w/ Mastic	Homogeneous				
2-48-Flooring	Upstairs Bathroom -	Tan	4% Cellulose	5% Ca Carbonate	None Detected	
411703312-0031	Tan Large Square Pattern Vinyl Floor w/ Mastic	Fibrous Homogeneous		91% Non-fibrous (Other)		
2-48-Mastic	Upstairs Bathroom - Tan Large Square	Tan Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected	
411703312-0031A	Pattern Vinyl Floor w/ Mastic	Homogeneous				
2-49-Flooring	Upstairs Bathroom - Tan Large Square	Tan Non-Fibrous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected	
411703312-0032	Pattern Vinyl Floor w/ Mastic	Homogeneous				
2-49-Mastic	Upstairs Bathroom - Tan Large Square	Tan Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected	
411703312-0032A	Pattern Vinyl Floor w/ Mastic	Homogeneous				

Initial report from: 05/04/2017 08:00:17



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

			Non-Asbes	stos	Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
2-51-Cove Base	Upstairs Bathroom - Cove Base Mastic	Black Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)		
2-51-Mastic	Upstairs Bathroom - Cove Base Mastic	Tan Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)		
411703312-0033A		Homogeneous				
2-52-Cove Base	Upstairs Bathroom - Cove Base Mastic	Black Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)		
2-52-Mastic	Upstairs Bathroom -	Tan		5% Ca Carbonate	None Detected	
411703312-0034A	Cove Base Mastic	Non-Fibrous Homogeneous		95% Non-fibrous (Other)	None Delected	
2-54-Skim Coat	Upstairs Bathroom - Plaster w/ Finish	White Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected	
411703312-0035		Homogeneous				
2-54-Rough Coat	Upstairs Bathroom - Plaster w/ Finish	Gray Non-Fibrous		25% Quartz 75% Non-fibrous (Other)	None Detected	
411703312-0035A	Unitative Distlements	Homogeneous	100/ 0-11-1		News Datastad	
2-54-Drywall 411703312-0035B	Upstairs Bathroom - Plaster w/ Finish	Brown Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected	
2-55-Skim Coat	Upstairs Bathroom -	White		5% Ca Carbonate	None Detected	
411703312-0036	Plaster w/ Finish	Non-Fibrous Homogeneous		95% Non-fibrous (Other)	None Delected	
2-55-Rough Coat	Upstairs Bathroom - Plaster w/ Finish	Gray Non-Fibrous		25% Quartz 5% Ca Carbonate	None Detected	
411703312-0036A		Homogeneous		70% Non-fibrous (Other)		
2-55-Drywall	Upstairs Bathroom - Plaster w/ Finish	Brown Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected	
411703312-0036B		Homogeneous				
2-56-Skim Coat	Upstairs Bathroom - Plaster w/ Finish	White Non-Fibrous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected	
	Lineteire Dethreere	Homogeneous	r10/ Callulana	200/ Ouert-	News Detected	
2-56-Rough Coat	Upstairs Bathroom - Plaster w/ Finish	Gray Non-Fibrous Homogeneous	<1% Cellulose	30% Quartz 5% Ca Carbonate 65% Non-fibrous (Other)	None Detected	
2-56-Drywall	Upstairs Bathroom - Plaster w/ Finish	Brown/Gray Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected	
411703312-0037B		Homogeneous				
2-57	Bathroom Shower Stall - White Caulk	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
411703312-0038		Homogeneous				
2-58	Bathroom Shower Stall - White Caulk	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
411703312-0039		Homogeneous				
2-60 411703312-0040	Exterior Brick Penetration by Awning - Grey Penetration Caulk	Gray Non-Fibrous Homogeneous	5% Ca Carbonate 95% Non-fibrous (Other)		None Detected	
2-61	Exterior Brick Penetration by	Gray Non-Fibrous		10% Quartz 10% Ca Carbonate	None Detected	
411703312-0041	Awning - Grey Penetration Caulk	Homogeneous		80% Non-fibrous (Other)		



376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com EMSL Order: 411703312 Customer ID: AXEM25 Customer PO: Project ID:

Analyst(s)

Eric Loomis (24) Lacy Searcy (33)

Evan L Plumber.

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: 05/04/2017 08:00:17

376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com

EMSL Order: 411703312 Customer ID: AXEM25 **Customer PO:** 

Attention:	Nicholas Neerhof
	Apex Environmental Management
	7 Winchester Court
	Mauldin, SC 29662

Project ID:

Phone: (864) 640-5274 Fax: Received Date: 04/27/2017 10:00 AM Analysis Date: 05/10/2017 Collected Date: 04/24/2017

Project: Cammie Clagett Building #2

#### 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
2-3 411703312-0042	Interior Metal Window Casings - Black Caulk	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
2-9 411703312-0043	Kitchen Counter - White Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
2-32 411703312-0044	Under Kitchen Sink - White Coating on Sink	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
2-35 411703312-0045	Exterior Metal Window Casings - Black Caulk	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
2-38 411703312-0046	Kitchen - White Mastic on Backsplash	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
2-47-Flooring 411703312-0047	Upstairs Bathroom - Bathroom Stall Plastic w/ Mastic	Brown/White Fibrous Homogeneous	100	None	No Asbestos Detected
2-47-Mastic 411703312-0048	Upstairs Bathroom - Bathroom Stall Plastic w/ Mastic	Clear Non-Fibrous Homogeneous	100	None	No Asbestos Detected
2-50-Flooring 411703312-0049	Upstairs Bathroom - Tan Large Square Pattern Vinyl Floor w/ Mastic	Tan Fibrous Homogeneous	100	None	No Asbestos Detected
2-50-Mastic 411703312-0050	Upstairs Bathroom - Tan Large Square Pattern Vinyl Floor w/ Mastic	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
2-53-Cove Base 411703312-0051	Upstairs Bathroom - Cove Base Mastic	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
2-53-Mastic 411703312-0052	Upstairs Bathroom - Cove Base Mastic	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
2-59 411703312-0053	Bathroom Shower Stall - White Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected

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

Samples analyzed by EMSL Analytical, Inc. Charlotte, NC

Initial report from: 05/10/2017 11:51:02

EMSL Analytical, Inc. 376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com one:

Customer ID: AXEM25 **Customer PO: Project ID:** (864) 640-5274

04/27/2017 10:00 AM

EMSL Order: 411703312

Attention:	Nicholas Neerhof	Phone:	(864) 640-52
	Apex Environmental Management	Fax:	
	7 Winchester Court	Received Date:	04/27/2017 1
	Mauldin, SC 29662	Analysis Date:	05/10/2017
		Collected Date:	04/24/2017

Project: Cammie Clagett Building #2

## 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
2-62 411703312-0054	Exterior Brick Penetration by Awning - Grey Penetration Caulk	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected

Analyst(s)

Aaron Hartley (13)

Evan L Plumber

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: 05/10/2017 11:51:02

EMBL	Asbestos Cha EMSL Order Na		-	376 Ci	Analytical, Inc. ompton Street
EMSL ANALYTICAL, INC.	(-	7750)		Рно	tte, NC 28273 <sup>NE:</sup> (704) 525-2205 <sup>AX:</sup> (704) 525-2382
					(704) 525-2362
Company Name : Apex Environm	nental Management	EMSL Custo			
Street: 7 Winchester Court		City: Mauld			ovince: SC
Zip/Postal Code: 29662	Country: US	Telephone #	<b>#:</b> 864-404-32	210 Fax #:	
	liser	Please Prov	ride Results:	🗌 Fax 🗹 Ema	ail
Email Address: toliverea	lex-ehs.com	Purchase O			
Project Name/Number: Camm U.S. State Samples Taken: 50	ie Clagett Bldg Z		ct ID (Internal		Residential/Tax Exempt
	L-Bill to: 🗹 Same 🔲 Different	- If Bill to is Differen	nt note instructions	in Comments**	
	Third Party Billing requires with Turnaround Time (TAT	the second s		у	
3 Hour 6 Hour	24 Hour 48 Hour			Hour 1W	eek 🗌 2 Week
*For TEM Air 3 hr through 6 hr, please ca	Il ahead to schedule.*There is a premi ice. Analysis completed in accordanc	um charge for 3 Ho	our TEM AHERA	or EPA Level II TAT.	You will be asked to sign an
PCM - Air Check if samples are	TEM – Air 4-4.5hr TAT		TEM- Dust	is located in the Analy	
from NY	AHERA 40 CFR, Part 7			ACTM D EZEE	
NIOSH 7400	NIOSH 7402	03		: - ASTM D 5755 STM D6480	
PLM - Bulk (reporting limit)			<u> </u>	onication (EPA 60	0/1-93/167)
PLM EPA 600/R-93/116 (<1%)	ISO 10312		Soil/Rock/V		0/0-00/10/)
PLM EPA NOB (<1%)	TEM - Bulk		_		h milling prep (<1%)
Point Count	TEM EPA NOB		Freedom and		h milling prep (<0.25%)
400 (<0.25%) 1000 (<0.1%)	NYS NOB 198.4 (non-fr	iable-NY)	Partness of the local division of the local		h milling prep (<0.1%)
Point Count w/Gravimetric 400 (<0.25%) 1000 (<0.1%)	Chatfield SOP	A 600 and 2 F		alitative via Filtratio alitative via Drop M	
NYS 198.1 (friable in NY)	TEM – Water: EPA 100.2	A 000 SEC. 2.5			/R-04/004 - PLM/TEM
			(BC only)		
NYS 198.6 NOB (non-friable-NY			Other:		
NIOSH 9002 (<1%)	All Fiber Sizes Waste	Drinking			
Check For Positive Stop – Clea	arly Identify Homogenous Gro	up Filter	Pore Size (Ai	and the second se	0.8µm0.45µm
Samplers Name: Tom O	live	Samplers	Signature:	V	-
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	Page 1 of	f b pages			

Controlled Document - Asbestos COC - R10 - 05/09/2016

EN EMSL ANALYTICAL, INC.

EMSL Analytical, Inc. 376 Crompton Street

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

aster w/ finish over unfinished and the dynall under Plaster w/ finish e square rack pattern vinyl floor mastic of & awning shingles & felt (3) (1) Sample #'s not used	PLM 1 PLM PLM TEM PLM TEM 1 TEM 1 TEM 1	
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shed drywell under Plaster w/ finish e square rock pattern viny/ floor mastic of & awning shires & felt (3) (1)	PLM PLM TEM PLM TEM	
e square rock pattern vinyl floor nastic of & awning shires & felt (3) (1)	TEM PLM I TEM	
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have a gray mastic on roof	PLM	
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Controlled Document - Asbestos COC - R10 - 05/09/2016

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com

Apex Environmental Management

EMSL Order: 021707750 Customer ID: AXEM25 Customer PO: Project ID:

 Phone:
 (864) 640-5274

 Fax:
 Fax:

 Received Date:
 12/06/2017 9:00 AM

 Analysis Date:
 12/11/2017 - 12/12/2017

 Collected Date:
 12/04/2017

Project: Cammie Clagett Bldg. 2

7 Winchester Court

Mauldin, SC 29662

Attention: Tom Oliver

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

			Non-Asbe	stos	Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
2-63	HVAC Tape	Silver/Yellow/Beige Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected	
021707750-0001		Heterogeneous				
2-64 021707750-0002	HVAC Tape	Tan/Silver/Beige Fibrous Heterogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected	
2-66-Skim Coat	Plaster w/ Finish Over	White/Beige		10% Ca Carbonate	None Detected	
2-00-SKIIII COAL	Unfinished Drywall	Non-Fibrous Homogeneous		90% Non-fibrous (Other)	None Delected	
2-66-Rough Coat	Plaster w/ Finish Over	Gray/Tan	1% Cellulose	30% Quartz	None Detected	
021707750-0004A	Unfinished Drywall	Non-Fibrous Heterogeneous		69% Non-fibrous (Other)	None Detected	
2-66-Drywall	Plaster w/ Finish Over	Brown/Gray	15% Cellulose	85% Non-fibrous (Other)	None Detected	
021707750-0004B	Unfinished Drywall	Fibrous Heterogeneous			None Detected	
2-67-Skim Coat	Plaster w/ Finish Over	White/Beige		10% Ca Carbonate	None Detected	
	Unfinished Drywall	Non-Fibrous		90% Non-fibrous (Other)		
021707750-0005	· · · · · · · · · · · · · · · · · · ·	Homogeneous		· · · ·		
2-67-Rough Coat	Plaster w/ Finish Over	Gray/Tan	1% Cellulose	30% Quartz	None Detected	
021707750-0005A	Unfinished Drywall	Non-Fibrous Heterogeneous		69% Non-fibrous (Other)		
2-67-Drywall	Plaster w/ Finish Over	Brown/Gray	15% Cellulose	85% Non-fibrous (Other)	None Detected	
021707750-0005B	Unfinished Drywall	Fibrous Heterogeneous				
	Linfinghed Dravell		15% Cellulose	95% Non fibrous (Other)	None Detected	
2-68	Unfinshed Drywall Under Plaster w/	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Delected	
021707750-0006	Finish	Heterogeneous				
Only drywall present		0				
2-69-Flooring	Large Square Rock	Tan/White	1% Glass	99% Non-fibrous (Other)	None Detected	
_ 00 ! 100111.g	Pattern Vinyl Floor w/	Non-Fibrous				
021707750-0007	Mastic	Homogeneous				
2-69-Mastic	Large Square Rock	Yellow	<1% Cellulose	100% Non-fibrous (Other)	None Detected	
	Pattern Vinyl Floor w/	Non-Fibrous				
021707750-0007A	Mastic	Homogeneous				
2-71-Shingle 1	Roof and Awning	Brown/Black/Orang	<1% Cellulose	95% Non-fibrous (Other)	None Detected	
001707750 0000	Shingles/Felt	e Fibroue	5% Glass			
021707750-0009		Fibrous Heterogeneous				
0.74. Obia ala .0	Deef and Aumint				Name Datastad	
2-71-Shingle 2	Roof and Awning Shingles/Felt	Gray/Black/Green Fibrous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected	
021707750-0009A	oningies/r en	Heterogeneous	070 01000			
2-71-Shingle 3	Roof and Awning	Brown/Black/Orang	<1% Cellulose	95% Non-fibrous (Other)	None Detected	
	Shingles/Felt	e	5% Glass			
021707750-0009B	<b>.</b>	Fibrous Heterogeneous				
2-71-Felt	Roof and Awning Shingles/Felt	Black Fibrous	80% Cellulose	20% Non-fibrous (Other)	None Detected	
021707750-0009C		Homogeneous				



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

			Non-Asbestos			
Sample	Description	Appearance	% Fibrous % Non-Fibrous		% Туре	
2-72-Shingle 1	Roof and Awning Shingles/Felt	Brown/Black/Orang e	8% Glass	92% Non-fibrous (Other)	None Detected	
21707750-0010	-	Fibrous Heterogeneous				
2-72-Shingle 2	Roof and Awning Shingles/Felt	Gray/Black/Green Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected	
021707750-0010A		Heterogeneous				
2-72-Shingle 3	Roof and Awning Shingles/Felt	Brown/Black/Orang e	8% Glass	92% Non-fibrous (Other)	None Detected	
021707750-0010B	<u> </u>	Fibrous Homogeneous				
2-72-Felt	Roof and Awning Shingles/Felt	Black Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected	
021707750-0010C		Homogeneous				
2-77	Awning/Flashing Caulk	White/Beige Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected	
021707750-0012		Homogeneous				
2-78	Awning/Flashing Caulk	Beige Non-Fibrous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
021707750-0013		Homogeneous				
2-80	Roof Goble Vent Caulk	Beige/Rust Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected	
021707750-0015		Homogeneous				
2-81	Roof Goble Vent Caulk	Beige Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
021707750-0016		Homogeneous				
2-83	Paint Coated Metal- Vent Pipes	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected	
021707750-0018		Homogeneous				
2-84	Paint Coated Metal- Vent Pipes	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected	
021707750-0019		Homogeneous				
2-85	Paint Coated Metal- Vent Pipes	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected	
021707750-0020		Homogeneous				
2-86	Block/Gray Mastic on Roof Penetrations	Gray/Black Fibrous	3% Cellulose	94% Non-fibrous (Other)	3% Chrysotile	
021707750-0021		Heterogeneous				
2-87	Block/Gray Mastic on Roof Penetrations				Positive Stop (Not Analyzed)	
021707750-0022						

Analyst(s)

Nicole Shutts (9) Scott Combs (18)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 12/12/2017 11:06:15

ASB\_PLM\_0008\_0001 - 1.78 Printed: 12/12/2017 11:06 AM

EMSL

Attention:

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com EMSL Order: 021707750 Customer ID: AXEM25 Customer PO: Project ID:

: Tom Oliver	Phone: (864) 640-5274
Apex Environmental Management	Fax:
7 Winchester Court	Received Date: 12/06/2017 9:00 AM
Mauldin, SC 29662	Analysis Date: 12/11/2017 - 12/12/2017
	Collected Date: 12/04/2017

Project: Cammie Clagett Bldg. 2

#### Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

021707750-0003       Large Square Rock Pattern Vinyl Floor Wastic       Gra/Tan Non-Fibrous Homogeneous       100       None       No Asbestos Dete Non-Fibrous Homogeneous         2-70- Mastic 021707750-0008       Large Square Rock Pattern Vinyl Floor Wastic       Tan/Beige Non-Fibrous Homogeneous       100       None       No Asbestos Dete Non-Fibrous Homogeneous         2-70-Mastic 021707750-0008A       Large Square Rock Pattern Vinyl Floor Wastic       Tan/Beige Non-Fibrous Homogeneous       100       None       No Asbestos Dete Non-Fibrous Homogeneous         2-73-Shingle 1       Roof and Awning       Brown/Various/Black Fibrous Heterogeneous       100       None       No Asbestos Dete Pibrous Heterogeneous         2-73-Shingle 2       Roof and Awning       Brown/Various/Black Fibrous Heterogeneous       100       None       No Asbestos Dete Pibrous Heterogeneous         2-73-Shingle 3       Roof and Awning       Gray/Black/Green       100       None       No Asbestos Dete Pibrous Heterogeneous         2-73-Felt       Roof and Awning       Black       100       None       No Asbestos Dete Pibrous Heterogeneous         2-73-Shingle 3       Roof and Awning       Black       100       None       No Asbestos Dete Pibrous Heterogeneous         2-73-Shingle 4       Roof and Awning       Black       100       None       No Asbestos Dete Pibrous Heterogeneous	Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
Homogeneous         2-70- Vinyl Floor       Large Square Rock Patterm Vinyl Floor wi Mastic       Gray/Tan Non-Fibrous Homogeneous       None       No Asbestos Dete Non-Fibrous Homogeneous         2-70-Mastic       Large Square Rock Patterm Vinyl Floor wi Mastic       Tan/Beige       100       None       No Asbestos Dete Non-Fibrous Homogeneous         2-70-Mastic       Large Square Rock Patterm Vinyl Floor wi Mastic       Tan/Beige       100       None       No Asbestos Dete Non-Fibrous Homogeneous         2-73-Shingle 1       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete Pibrous Heterogeneous         2-73-Shingle 2       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete Pibrous Heterogeneous         2-73-Shingle 3       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete Pibrous Heterogeneous         2-73-Shingle 3       Roof and Awning       Gray/Black/Green       100       None       No Asbestos Dete Pibrous Heterogeneous         2-73-Shingle 3       Roof and Awning       Black       100       None       No Asbestos Dete Pibrous Homogeneous         2-73-Shingle 5-Felt       Fibrous Heterogeneous       Homogeneous       Non-Fibrous Heterogeneous       None       No Asbestos Dete Pibrous Homogeneous         2-73-Shingle 5-Felt<	2-65	HVAC Tape	Gray/Tan/Silver	100	None	No Asbestos Detected
2-70- Vinyl Floor       Large Square Rock Pattern       Gray/Tan       100       None       No Asbestos Dete         22-70- Vinyl Floor       Vinyl Floor w/ Mastic       Non-Fibrous       100       None       No Asbestos Dete         22-70-Mastic       Large Square Rock Pattern       Tan/Beige       100       None       No Asbestos Dete         22-70-Mastic       Large Square Rock Pattern       Tan/Beige       100       None       No Asbestos Dete         22-73-Shingle 1       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete         22-73-Shingle 2       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete         22-73-Shingle 2       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete         22-73-Shingle 3       Roof and Awning       Gray/Black/Green       100       None       No Asbestos Dete         22-73-Shingle 4       Roof and Awning       Black       100       None       No Asbestos Dete         22-73-Fielt       Roof and Awning       Black       100       None       No Asbestos Dete         22-73-Fielt       Roof and Awning       Black       100       None       No Asbestos Dete         22-79	021707750-0003		Fibrous			
221707750-0008       Vinyl Floor w/ Mastic       Non-Fibrous         2-70-Mastic       Large Square Rock Pattern       Tan/Beige       100       None       No Asbestos Dete         221707750-0008A       Vinyl Floor w/ Mastic       Tan/Beige       100       None       No Asbestos Dete         221707750-0008A       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete         221707750-0011       Shingles/Felt       Fibrous       Heterogeneous       100       None       No Asbestos Dete         221707750-0011A       Shingles/Felt       Fibrous       Heterogeneous       100       None       No Asbestos Dete         221707750-0011A       Shingles/Felt       Fibrous       Heterogeneous       None       No Asbestos Dete         221707750-0011A       Shingles/Felt       Fibrous       Heterogeneous       None       No Asbestos Dete         221707750-0011B       Shingles/Felt       Fibrous       Heterogeneous       None       No Asbestos Dete         221707750-0011C       Shingles/Felt       Fibrous       Heterogeneous       None       No Asbestos Dete         221707750-0011C       Shingles/Felt       Fibrous       Homogeneous       None       No Asbestos Dete         2273 Felt       Roof and			Homogeneous			
Homogeneous         2-70-Mastic 021707750-000A       Large Square Rock Pattern Vinyl Floor w/ Mastic       Tan/Beige Non-Fibrous Homogeneous       100       None       No Asbestos Dete Non-Sibrous Homogeneous         2-73-Shingle 1       Roof and Awning Shingles/Feit       Brown/Various/Black       100       None       No Asbestos Dete Non-Sibrous Heterogeneous         2-73-Shingle 2       Roof and Awning Shingles/Feit       Brown/Various/Black       100       None       No Asbestos Dete No Asbestos Dete Pibrous         2-73-Shingle 3       Roof and Awning Shingles/Feit       Brown/Various/Black       100       None       No Asbestos Dete No Asbestos Dete         2-73-Shingle 3       Roof and Awning Shingles/Feit       Gray/Black/Green       100       None       No Asbestos Dete No Asbestos Dete         2-73-Feit       Roof and Awning Shingles/Feit       Black       100       None       No Asbestos Dete No Asbestos Dete Pibrous Heterogeneous         2-73       Roof and Awning Shingles/Feit       Black       100       None       No Asbestos Dete Pibrous Homogeneous         2-79       Awning/Flashing Caulk D21707750-0011       Gray/Beige Homogeneous       100       None       No Asbestos Dete Non-Fibrous Homogeneous         2-82       Roof Goble Vent Caulk D21707750-0011       Gray/Tan/White Homogeneous       100       None       No Asbestos Dete No Asbest	2-70- Vinyl Floor	Large Square Rock Pattern	Gray/Tan	100	None	No Asbestos Detected
2-70-Mastic D21707750-0008A       Large Square Rock Pattern Vinyl Floor w/ Mastic       Tan/Beige Non-Fibrous Homogeneous       100       None       No Asbestos Dete No Asbestos Dete Non-Fibrous Homogeneous         2-73-Shingle 1 D21707750-0011       Roof and Awning Shingles/Feit       Brown/Various/Black Fibrous Heterogeneous       100       None       No Asbestos Dete No Asbestos Dete         2-73-Shingle 2 D21707750-0011       Roof and Awning Shingles/Feit       Brown/Various/Black Fibrous Heterogeneous       100       None       No Asbestos Dete         2-73-Shingle 3 D21707750-00114       Roof and Awning Shingles/Feit       Brown/Various/Black Fibrous Heterogeneous       100       None       No Asbestos Dete         2-73-Shingle 3 D21707750-00118       Roof and Awning Shingles/Feit       Gray/Black/Green Fibrous Heterogeneous       100       None       No Asbestos Dete         2-73-Feit D21707750-00116       Roof and Awning Shingles/Feit       Black Fibrous Homogeneous       100       None       No Asbestos Dete         2-79 D21707750-00116       Awning/Flashing Caulk Mon-Fibrous Homogeneous       Gray/Tan/White Non-Fibrous Homogeneous       100       None       No Asbestos Dete         2-79 D21707750-00117       Roof Goble Vent Caulk Mon-Fibrous Homogeneous       Gray/Tan/White Non-Fibrous Homogeneous       100<	021707750-0008	Vinyl Floor w/ Mastic	Non-Fibrous			
D21707750-0008A       Vinyl Floor w/ Mastic       Non-Fibrous         2-73-Shingle 1       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete         2-73-Shingle 2       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete         2-73-Shingle 2       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete         2-73-Shingle 2       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete         2-73-Shingle 3       Roof and Awning       Gray/Black/Green       100       None       No Asbestos Dete         2-73-Shingle 3       Roof and Awning       Gray/Black/Green       100       None       No Asbestos Dete         2-73-Shingle 3       Roof and Awning       Black       100       None       No Asbestos Dete         2-73-Felt       Shingles/Felt       Fibrous       Heterogeneous       Heterogeneous       Heterogeneous         2-79       Awning/Flashing Caulk       Gray/Beige       100       None       No Asbestos Dete         021707750-00112       Shingles/Felt       Fibrous       Homogeneous       Homogeneous       Homogeneous         2-79       Awning/Flashing Caulk       Gray/Tan/White			Homogeneous			
Homogeneous         2-73-Shingle 1       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete         2-73-Shingle 2       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete         2-73-Shingle 2       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete         2-73-Shingle 2       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete         2-73-Shingle 3       Roof and Awning       Gray/Black/Green       100       None       No Asbestos Dete         2-73-Shingle 3       Roof and Awning       Gray/Black/Green       100       None       No Asbestos Dete         2-73-Shingle 3       Roof and Awning       Black       100       None       No Asbestos Dete         2-73-Shingle 4       Roof and Awning       Black       100       None       No Asbestos Dete         2-79       Awning/Flashing Caulk       Gray/Black       Gray/Black       Non-Fibrous       Non-Fibrous         Homogeneous       Homogeneous       Non-Fibrous       Non-Fibrous       Non-Fibrous       No Asbestos Dete         2-79       Roof Goble Vent Caulk       Gray/Tan/White       100       None       No Asbestos Dete	2-70-Mastic	Large Square Rock Pattern	Tan/Beige	100	None	No Asbestos Detected
2-73-Shingle 1 021707750-0011       Roof and Awning Shingles/Felt       Brown/Various/Black Fibrous Heterogeneous       100       None       No Asbestos Dete Pibrous Heterogeneous         2-73-Shingle 2 021707750-0011A       Roof and Awning Shingles/Felt       Brown/Various/Black Fibrous Fibrous Heterogeneous       100       None       No Asbestos Dete No Asbestos Dete Pibrous         2-73-Shingle 2 021707750-0011A       Roof and Awning Shingles/Felt       Brown/Various/Black Fibrous Heterogeneous       100       None       No Asbestos Dete No Asbestos Dete Pibrous Heterogeneous         2-73-Shingle 3 021707750-0011B       Roof and Awning Shingles/Felt       Gray/Black/Green Fibrous Heterogeneous       100       None       No Asbestos Dete Pibrous Heterogeneous         2-73-Fielt 021707750-0011C       Roof and Awning Shingles/Felt       Black Fibrous Homogeneous       100       None       No Asbestos Dete Pibrous Homogeneous         2-79 021707750-0014       Awning/Flashing Caulk Mon-Fibrous Homogeneous       Gray/Beige Ray/Beige Homogeneous       100       None       No Asbestos Dete No Asbestos Dete Mon Substos Dete Homogeneous         2-82 021707750-0017       Roof Goble Vent Caulk       Gray/Tan/White Mon-Fibrous Homogeneous       100       None       No Asbestos Dete Mon Asbestos Dete Mon Fibrous Homogeneous	021707750-0008A	Vinyl Floor w/ Mastic	Non-Fibrous			
221707750-0011       Shingles/Felt       Fibrous Heterogeneous         2-73-Shingle 2 021707750-0011A       Roof and Awning Shingles/Felt       Brown/Various/Black       100       None       No Asbestos Dete Fibrous Heterogeneous         2-73-Shingle 3 021707750-0011A       Roof and Awning Shingles/Felt       Gray/Black/Green Fibrous Heterogeneous       100       None       No Asbestos Dete No Asbestos Dete Pribrous Heterogeneous         2-73-Shingle 3 021707750-0011B       Roof and Awning Shingles/Felt       Gray/Black/Green Fibrous Heterogeneous       100       None       No Asbestos Dete No Asbestos Dete Pribrous Homogeneous         2-73-Felt 021707750-0011C       Roof and Awning Shingles/Felt       Black       100       None       No Asbestos Dete No Asbestos Dete Pribrous Homogeneous         2-79 021707750-0011C       Awning/Flashing Caulk       Gray/Beige Gray/Beige       100       None       No Asbestos Dete No Asbestos Dete Non-Fibrous Homogeneous         2-82 021707750-0017       Roof Goble Vent Caulk       Gray/Tan/White Non-Fibrous Homogeneous       100       None       No Asbestos Dete No Asbestos Dete Non-Fibrous Homogeneous         2-82 021707750-0017       Block/Gray Mastic on Roof       Gray/Tan/White Non-Fibrous Homogeneous       100       None       No Asbestos Dete Non-Fibrous Homogeneous </td <td></td> <td></td> <td>Homogeneous</td> <td></td> <td></td> <td></td>			Homogeneous			
Heterogeneous         2-73-Shingle 2       Roof and Awning       Brown/Various/Black       100       None       No Asbestos Dete         2-73-Shingle 3       Roof and Awning       Gray/Black/Green       100       None       No Asbestos Dete         2-73-Shingle 3       Roof and Awning       Gray/Black/Green       100       None       No Asbestos Dete         2-73-Shingle 3       Roof and Awning       Gray/Black/Green       100       None       No Asbestos Dete         2-73-Fielt       Roof and Awning       Black       100       None       No Asbestos Dete         2-73-Fielt       Roof and Awning       Black       100       None       No Asbestos Dete         2-79       Awning/Flashing Caulk       Gray/Beige       100       None       No Asbestos Dete         021707750-0014       Ono-Fibrous       Homogeneous       Non-Fibrous       Non-Fibrous         2-78       Roof Goble Vent Caulk       Gray/Tan/White       100       None       No Asbestos Dete         021707750-0017       Poof Goble Vent Caulk       Gray/Tan/White       100       None       No Asbestos Dete         021707750-0017       Poof Goble Vent Caulk       Gray/Tan/White       100       None       No Asbestos Dete         021707750-0017<	2-73-Shingle 1	Roof and Awning	Brown/Various/Black	100	None	No Asbestos Detected
2-73-Shingle 2 021707750-0011A       Roof and Awning Shingles/Felt       Brown/Various/Black Fibrous Heterogeneous       100       None       No Asbestos Deter Posteria de States Determining         2-73-Shingle 3 021707750-0011A       Roof and Awning Shingles/Felt       Gray/Black/Green Fibrous Heterogeneous       100       None       No Asbestos Determining         2-73-Shingle 3 021707750-0011B       Roof and Awning Shingles/Felt       Gray/Black/Green Fibrous Heterogeneous       100       None       No Asbestos Determining         2-73-Felt 021707750-0011C       Roof and Awning Shingles/Felt       Black Fibrous Homogeneous       100       None       No Asbestos Determining         2-73       Awning/Flashing Caulk       Gray/Beige Non-Fibrous Homogeneous       100       None       No Asbestos Determining         2-79 021707750-0014       Awning/Flashing Caulk       Gray/Beige Non-Fibrous Homogeneous       100       None       No Asbestos Determining         2-82 021707750-0017       Roof Goble Vent Caulk       Gray/Tan/White Non-Fibrous Homogeneous       100       None       No Asbestos Determining         2-88       Block/Gray Mastic on Roof       Fibrous Homogeneous       100       None       No Asbestos Determining	021707750-0011	Shingles/Felt	Fibrous			
021707750-0011A       Shingles/Felt       Fibrous Heterogeneous         2-73-Shingle 3 021707750-0011B       Roof and Awning Shingles/Felt       Gray/Black/Green Fibrous Heterogeneous       100       None       No Asbestos Dete No Asbestos Dete Pribrous Heterogeneous         2-73-Felt 021707750-0011C       Roof and Awning Shingles/Felt       Black       100       None       No Asbestos Dete No Asbestos Dete Pribrous Homogeneous         2-73-Felt 021707750-0011C       Roof and Awning Shingles/Felt       Black       100       None       No Asbestos Dete Pribrous Homogeneous         2-79 021707750-0014       Awning/Flashing Caulk Homogeneous       Gray/Beige Non-Fibrous Homogeneous       100       None       No Asbestos Dete Pribrous Non-Fibrous Homogeneous         2-82 021707750-0017       Roof Goble Vent Caulk Homogeneous       Gray/Tan/White Non-Fibrous Homogeneous       100       None       No Asbestos Dete Pribrous Homogeneous         2-88       Block/Gray Mastic on Roof       Station Roof       Station Roof       Station Roof			Heterogeneous			
2-73-Shingle 3       Roof and Awning       Gray/Black/Green       100       None       No Asbestos Dete         2-73-Shingle 3       Shingles/Felt       Fibrous       Fibrous       Heterogeneous       None       No Asbestos Dete         2-73-Felt       Roof and Awning       Black       100       None       No Asbestos Dete         2-73-Felt       Roof and Awning       Black       100       None       No Asbestos Dete         2-73-Felt       Roof and Awning       Black       100       None       No Asbestos Dete         2-73-Felt       Roof and Awning       Black       100       None       No Asbestos Dete         2-73-Felt       Roof and Awning       Black       100       None       No Asbestos Dete         2-73-Felt       Momogeneous       Homogeneous       Non-Fibrous       Non-Fibrous       Non-Fibrous         2-79       Awning/Flashing Caulk       Gray/Baey       Gray/Tan/White       100       None       No Asbestos Dete         2-82       Roof Goble Vent Caulk       Gray/Tan/White       100       None       No Asbestos Dete         021707750-0017       Homogeneous       Homogeneous       Homogeneous       Homogeneous       Homogeneous         2-88       Block/Gray Mastic on Roof	2-73-Shingle 2	Roof and Awning	Brown/Various/Black	100	None	No Asbestos Detected
2-73-Shingle 3 021707750-0011B       Roof and Awning Shingles/Felt       Gray/Black/Green Fibrous Heterogeneous       100       None       No Asbestos Deter         2-73-Felt 021707750-0011B       Roof and Awning Shingles/Felt       Black       100       None       No Asbestos Deter         2-73-Felt 021707750-0011C       Roof and Awning Shingles/Felt       Black       100       None       No Asbestos Deter         2-73-Felt 021707750-0011C       Roof and Awning Shingles/Felt       Black       100       None       No Asbestos Deter         2-73-Felt 021707750-0011C       Roof and Awning Shingles/Felt       Black       100       None       No Asbestos Deter         2-79 021707750-0014       Awning/Flashing Caulk       Gray/Beige       100       None       No Asbestos Deter         2-79 021707750-0014       Awning/Flashing Caulk       Gray/Tan/White       100       None       No Asbestos Deter         2-82 021707750-0017       Roof Goble Vent Caulk       Gray/Tan/White       100       None       No Asbestos Deter         021707750-0017       Homogeneous       Homogeneous       100       None       No Asbestos Deter         2-88       Block/Gray Mastic on Roof       Homogeneous       100       None       No Asbestos Deter <td>021707750-0011A</td> <td>Shingles/Felt</td> <td>Fibrous</td> <td></td> <td></td> <td></td>	021707750-0011A	Shingles/Felt	Fibrous			
021707750-0011B       Shingles/Felt       Fibrous Heterogeneous         2-73-Felt       Roof and Awning       Black       100       None       No Asbestos Dete Politica Singles/Felt         2-79       Awning/Flashing Caulk       Gray/Beige       100       None       No Asbestos Dete Politica         2-79       Awning/Flashing Caulk       Gray/Beige       100       None       No Asbestos Dete Politica         21707750-0014       Homogeneous       100       None       No Asbestos Dete Politica         2-82       Roof Goble Vent Caulk       Gray/Tan/White       100       None       No Asbestos Dete Politica         2-82       Block/Gray Mastic on Roof       Block/Gray Mastic on Roof       100       None       No Asbestos Dete Politica			Heterogeneous			
2-73-Felt       Roof and Awning       Black       100       None       No Asbestos Dete         021707750-0011C       Shingles/Felt       Fibrous       Homogeneous       No       No       Asbestos Dete         2-79       Awning/Flashing Caulk       Gray/Beige       100       None       No Asbestos Dete         021707750-0014       Moning/Flashing Caulk       Gray/Beige       100       None       No Asbestos Dete         2-82       Roof Goble Vent Caulk       Gray/Tan/White       100       None       No Asbestos Dete         021707750-0017       Homogeneous       Homogeneous       100       None       No Asbestos Dete         2-82       Roof Goble Vent Caulk       Gray/Tan/White       100       None       No Asbestos Dete         021707750-0017       Homogeneous       Homogeneous       100       None       No Asbestos Dete         2-88       Block/Gray Mastic on Roof       Homogeneous       Homogeneous       Homogeneous       Homogeneous	2-73-Shingle 3	Roof and Awning	Gray/Black/Green	100	None	No Asbestos Detected
2-73-Felt       Roof and Awning       Black       100       None       No Asbestos Deteres         021707750-0011C       Shingles/Felt       Fibrous       Fibrous       Homogeneous       None       No Asbestos Deteres         2-79       Awning/Flashing Caulk       Gray/Beige       100       None       No Asbestos Deteres         021707750-0014       Monie       Gray/Beige       100       None       No Asbestos Deteres         2-82       Roof Goble Vent Caulk       Gray/Tan/White       100       None       No Asbestos Deteres         021707750-0017       Monie       Goble Vent Caulk       Gray/Tan/White       100       None       No Asbestos Deteres         2-82       Block/Gray Mastic on Roof       Block/Gray Mastic on Roof       State       State       State       State	021707750-0011B	Shingles/Felt	Fibrous			
021707750-0011C       Shingles/Felt       Fibrous Homogeneous         2-79       Awning/Flashing Caulk       Gray/Beige       100       None       No Asbestos Dete Non-Fibrous Homogeneous         2-82       Roof Goble Vent Caulk       Gray/Tan/White       100       None       No Asbestos Dete Non-Fibrous Homogeneous         2-82       Block/Gray Mastic on Roof       Block/Gray Mastic on Roof       Non-Fibrous Homogeneous       100       None       No Asbestos Dete Non-Fibrous Homogeneous			Heterogeneous			
2-79 Awning/Flashing Caulk Gray/Beige 100 None No Asbestos Dete 22-79 Awning/Flashing Caulk Gray/Beige 100 None No Asbestos Dete Non-Fibrous Homogeneous 2-82 Roof Goble Vent Caulk Gray/Tan/White 100 None No Asbestos Dete 22-82 Non-Fibrous Homogeneous 22-83 Block/Gray Mastic on Roof	2-73-Felt	Roof and Awning	Black	100	None	No Asbestos Detected
2-79     Awning/Flashing Caulk     Gray/Beige     100     None     No Asbestos Dete       021707750-0014     Non-Fibrous Homogeneous     Non-Fibrous Homogeneous     None     No Asbestos Dete       2-82     Roof Goble Vent Caulk     Gray/Tan/White     100     None     No Asbestos Dete       021707750-0017     Non-Fibrous Homogeneous     100     None     No Asbestos Dete       2-88     Block/Gray Mastic on Roof     Solo     Solo	021707750-0011C	Shingles/Felt	Fibrous			
021707750-0014     Non-Fibrous Homogeneous       2-82     Roof Goble Vent Caulk     Gray/Tan/White     100     None     No Asbestos Dete       021707750-0017     Non-Fibrous Homogeneous     None     No Asbestos Dete       2-88     Block/Gray Mastic on Roof     Vone     Vone			Homogeneous			
2-82       Roof Goble Vent Caulk       Gray/Tan/White       100       None       No Asbestos Dete         021707750-0017       Non-Fibrous       Homogeneous       Homogeneous       Homogeneous         2-88       Block/Gray Mastic on Roof       Homogeneous       Homogeneous       Homogeneous	2-79	Awning/Flashing Caulk	Gray/Beige	100	None	No Asbestos Detected
2-82 Roof Goble Vent Caulk Gray/Tan/White 100 None No Asbestos Dete 021707750-0017 Homogeneous 2-88 Block/Gray Mastic on Roof	021707750-0014		Non-Fibrous			
021707750-0017     Non-Fibrous Homogeneous       2-88     Block/Gray Mastic on Roof			Homogeneous			
Homogeneous       2-88     Block/Gray Mastic on Roof	2-82	Roof Goble Vent Caulk	Gray/Tan/White	100	None	No Asbestos Detected
2-88 Block/Gray Mastic on Roof	021707750-0017		Non-Fibrous			
			Homogeneous			
021707750-0023 Penetrations	2-88	Block/Gray Mastic on Roof				
	021707750-0023	Penetrations				
Positive Stop (Not Analyzed)	Positive	Stop (Not Analyzed)				

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. Kernersville, NC

	EMSL Analytical, Inc. 06 Gralin Street Kernersville, NC 27284 el/Fax: (336) 992-1025 / (336) 992-4175 ttp://www.EMSL.com / greensborolab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:		Phone:	(864) 640-5274
1	Apex Environmental Management	Fax:	
-	7 Winchester Court	Received Date:	12/06/2017 9:00 AM
I	Mauldin, SC 29662	Analysis Date:	12/11/2017 - 12/12/2017
		Collected Date:	12/04/2017
Project: (	Cammie Clagett Bldg. 2		

	Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
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Analyst(s)

Stephen Bennett (9)

Bernett The

Stephen Bennett, 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.

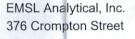
Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Page 1 Of

EMSL ANAL LABORATORY-PRO	YTICAL, IN			Chain c L Order N	Building of Custody umber (Lab U	/		3	376 Cromp Charlotte, PHONE: (70	Vical, Inc. ton Street NC 28273 4) 525-2205 4) 525-2382
1						E	EMSL-Bill to:	Same	Differer	
Company : Apex Environmental Management							Bill to is Different note			
Street: 7 Winchester Court       City: Mauldin       State/Province: SC							Billing requires wri			m third party
City: Mauldin State/Province: SC Report To (Name): Nicholas Neerhof					Zip/Postal			Cou	ntry: US	
the second se	the second s					#: 80	4-404-3210	1		
Project Na	me/Num	neerhof@ape ber:(qmm`e s Taken:SC	Clagett B	uilding 3	Fax #: Please Pro CT Sample		Results: Fa	xv		r: Mail tial/Tax Exempt
-				1 annual and a second	TAT) Options*					
					premium charge for	r 3 Hou	IF TEM AHERA or E as and Conditions loop	PA Level		will be asked to sign Price Guide.
		M - Bulk (repo			-		and the second se	- Bulk		
PLM EPA 600/R-93/116 (<1%) PLM EPA NOB (<1%)				893-18-58-1997-1997-1997	- EPA 600/R-93	/116 Se	ction 2.5.5.			
	B1	<1%) (<0.25%) 🔲	1000 (<0.1%)				od 198.4 (TEM) ol (semi-quantita	tive)		an ann a sa chuir a chuir an
the state and the state of the state of a faller of		A CREATE AND A CONTRACTOR OF A CONTRACTOR OF A CREATE AND A CREATE AND A CREATE A CR	(<0.25%) [] 1	000 (<0.1%)			- EPA 600/R-93		ection 2.5.5	.2
□ NIOSH	9002 (<	1%)			TEM Quali	itative	via Filtration Pre	p Tech	nique	
		d 198.1 (friabl			TEM Quali	itative	via Drop Mount		echnique	
		a reference and the second second second second second	(non-friable-N)	Y)		-	Oth	ner		
		on Method								
Chack F	For Posi	tive Stop Cl	early Identify	Homogonour	Group Date	Sam	pled: 4-25	-17		and the second second
Samplers N	1	Nicholu	A.c.	rhof	Sampler	42.00	A	Set.	2	
Sample #	HA #		Samp	ole Location			M	Materia	Descriptio	on
3-1		exteri	or metal	vindor	cusings	1	Black	(sin	s Can	k I
3-2	el inte		1 2.20 Y							
3-3						+				1
3-4		interior	metal	vindor	Lasings	1	Black	C	nulk	
3-5	1							-		
3-6		3		1		-		-		1
3-7		exterio	r vooden	door f	remes		Door	С	nylk	
3-8										1
3-9		1.1		<i>c</i> 1		1	211			
3-10		Kitc	hen Do	Sink			Black	(04	ting on	Sink
Client Sam			3-1	L -	3-64		Total # o	of Sam	oles: 58	
		nt): Nichola	ns Neerh	OT Da	te: 4-26-	17			Time:	1
Received (L		hyle Nlso-		Da	te: 4/27/17				Time: 0	ODAN Flx
BillTo: Apex Envi	ronmental M		ster Court, Mauldin, S nail: rshultz@apex-eh		der:			7952	7822	
			0.	3						

EMSL ANALYTICAL, INC.

Page 2 Of



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

411703309

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample #	HA #	Sample Location	Material Description
3-11		Kitchen Sink 1	Black conting on sink 1
3-12			
3-13		Kitchen counter 1	white cunk
3-14	_		
3-15		4	
3-16		Exterior brick penetration by arning	Brown Caule
3-17		the second s	
3-18		1	
3-19		U-350 Throughout 1	Drywall with Joint compound
3-20		U-352	and tape
3-21		V-354	
3-22		V-356	
3-23		U-358	and the second se
3-24		U-360	
3-25		V-360 -	4
3-26		throughout down stairs flooring 1	Top-tan speckled 12"x12" Floor tike with mastic 1
3-27			second-cream 12"x12" floor tile with mastic,
3-28		1	
3-29	D-	throughour Upsicins flooring 1	Top- the speckled 12"x12" floortile with mistic
3-39			Second - brown 12"x12" floor tille with mestic
3-31			1
3-32		Upsthirs bedroom	Dryvell patch Joint compound,
3-33			
3-34		2	-
*Commen	ts/Speci	al Instructions:	

Please utilize positive stop analysis.

BillTo: Apex Environmental Management, 7 Winchester Court, Mauldin, SC, 29662, US

Attention: Rebecca Shultz Phone: 864-404-3210 Email: rshultz@apex-ehs.com Purchase Order

Page 2 of 3 pages

Page 3 Of



EMSL ANALYTICAL, INC.

EME

# Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

## 411703309

EMSL Analytical, Inc. 376 Crompton Street

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample #	HA #	Sample Location	Material Description
3-35		upstairs bathroom shover still and sink,	white challe 1
3-36			
3-37			
3-38		upistairs battroom flooring	brown mustic under cerchic tile
3-34		V-350	with grey leveling compound beneath
3-40			
3-44	1	HVAC System downstring	HVAC massic - white
3-45			
3-46		4	L
3-47		upstairs bathroom flooring	Square Stoke pattern Viny 1
3-48		U-352	
3-49			-
3-53	1. A. A.	underneith Kitchen Sink	White Couting on Sink
3-54			
3-55		1	4
3-56		exterior brikk penetration by arking	Grey Mastic
3-57			/
3-58	236-	L	
3-59		Bathroom floor U-360	Stoke Pattern Viny floor mast
3-60			
3-61			
3-62		Bathroom wet wall 1	plaster with finish
3-63			
3-64		-4	4

Page <u>3</u> of <u>3</u> pages

EMSL Order: 411703309 **EMSL** Analytical, Inc. Customer ID: AXEM25 376 Crompton Street Charlotte, NC 28273 MSI **Customer PO:** Tel/Fax: (704) 525-2205 / (704) 525-2382 Project ID: http://www.EMSL.com / charlottelab@emsl.com Attention: Nicholas Neerhof Phone: (864) 640-5274 Apex Environmental Management Fax: 7 Winchester Court Received Date: 04/27/2017 10:00 AM Mauldin, SC 29662 Analysis Date: 05/02/2017 - 05/03/2017 Collected Date: 04/25/2017 Project: Cammie Clagett Building #3

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

			Non-Asbe	stos	Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
3-1	Exterior Metal Window Casings -	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected	
11703309-0001 3-2	Black Casing Caulk Exterior Metal	Homogeneous Black		100% Non-fibrous (Other)	None Detected	
111703309-0002	Window Casings - Black Casing Caulk	Non-Fibrous Homogeneous				
3-4	Interior Metal Window Casings - Black Caulk	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected	
11703309-0003	g	Homogeneous				
3-5	Interior Metal Window Casings - Black Caulk	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected	
11703309-0004		Homogeneous				
3-7	Exterior Wooden Door Frames - Door Caulk	Gray Non-Fibrous		5% Quartz 93% Non-fibrous (Other)	2% Chrysotile	
411703309-0005		Homogeneous				
3-8	Exterior Wooden Door Frames - Door Caulk				Positive Stop (Not Analyzed)	
411703309-0006						
3-10 411703309-0007	Kitchen Sink - Black Coating on Sink	Black Non-Fibrous Homogeneous		20% Ca Carbonate 76% Non-fibrous (Other)	4% Chrysotile	
3-11	Kitchen Sink - Black	Homogeneous			Positive Stop (Not Analyzed)	
411703309-0008	Coating on Sink					
3-13	Kitchen Counter - White Caulk	White Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected	
411703309-0009		Homogeneous				
3-14	Kitchen Counter - White Caulk	White Non-Fibrous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected	
411703309-0010		Homogeneous				
3-16	Exterior Brick Penetration by	Brown Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
411703309-0011	Awning - Brown Caulk	Homogeneous				
3-17 411703309-0012	Exterior Brick Penetration by Awning - Brown Caulk	Brown Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
B-19-Drywall	U-350 Throughout - Drywall with Joint	Brown/White Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected	
411703309-0013 No tape present	Compound and Tape	Homogeneous				
3-19-Joint Compound	U-350 Throughout -	Beige		5% Ca Carbonate	2% Chrysotile	
	Drywall with Joint	Non-Fibrous		93% Non-fibrous (Other)		
411703309-0013A	Compound and Tape	Homogeneous				
3-20-Drywall	U-352 Throughout - Drywall with Joint	Brown/White Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected	
411703309-0014	Compound and Tape	Homogeneous				
3-20-Joint Compound	U-352 Throughout - Drywall with Joint Compound and Tape				Positive Stop (Not Analyzed)	

Initial report from: 05/03/2017 13:38:32



			Non-Asbes	tos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
3-20-Tape	U-352 Throughout - Drywall with Joint	Tan Fibrous	100% Cellulose		None Detected
411703309-0014B	Compound and Tape	Homogeneous			
3-21-Drywall	U-354 Throughout - Drywall with Joint	Brown/White Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
411703309-0015	Compound and Tape	Homogeneous			
No tape present					
3-21-Joint Compound	U-354 Throughout - Drywall with Joint				Positive Stop (Not Analyzed
411703309-0015A	Compound and Tape				
3-22-Drywall	U-356 Throughout - Drywall with Joint	Brown/White Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
411703309-0016	Compound and Tape	Homogeneous			
3-22-Joint Compound	U-356 Throughout - Drywall with Joint				Positive Stop (Not Analyzed
411703309-0016A	Compound and Tape				
3-22-Tape	U-356 Throughout - Drywall with Joint	Tan Fibrous	100% Cellulose		None Detected
411703309-0016B	Compound and Tape	Homogeneous			
3-23-Drywall	U-358 Throughout - Drywall with Joint	Brown/White Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
411703309-0017	Compound and Tape	Homogeneous			
No tape present					
3-23-Joint Compound	U-358 Throughout - Drywall with Joint				Positive Stop (Not Analyzed
411703309-0017A	Compound and Tape				
3-24-Drywall	U-360 Throughout - Drywall with Joint	Gray Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected
411703309-0018	Compound and Tape	Homogeneous			
No tape present					
3-24-Joint Compound	U-360 Throughout - Drywall with Joint				Positive Stop (Not Analyzed
411703309-0018A	Compound and Tape				
3-25-Drywall	U-360 Throughout - Drywall with Joint	Gray Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected
411703309-0019	Compound and Tape	Homogeneous			
No tape present					
3-25-Joint Compound	U-360 Throughout - Drywall with Joint				Positive Stop (Not Analyzed
411703309-0019A	Compound and Tape				
3-26-Top Floor Tile	Throughout Downstairs Flooring -	Tan/White Non-Fibrous		35% Ca Carbonate 65% Non-fibrous (Other)	None Detected
411703309-0020	Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Cream 12"x12" Floor Tile with Mastic	Homogeneous			
3-26-Mastic	Throughout	Tan	1% Cellulose	99% Non-fibrous (Other)	None Detected
411703309-0020A	Downstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Cream 12"x12" Floor Tile with Mastic	Non-Fibrous Homogeneous			



			Non-Asbestos	<u>5</u>	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
3-26-Bottom Floor Tile	Throughout Downstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Cream 12"x12" Floor Tile with Mastic	Beige Non-Fibrous Homogeneous	4% Fibrous (Other)	8% Ca Carbonate 86% Non-fibrous (Other)	2% Chrysotile
3-26-Mastic	Throughout	Black		95% Non-fibrous (Other)	5% Chrysotile
411703309-0020C	Downstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Cream 12"x12" Floor Tile with Mastic	Non-Fibrous Homogeneous			
3-27-Top Floor Tile	Throughout	Tan		30% Ca Carbonate	None Detected
411703309-0021	Downstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Cream 12"x12" Floor Tile with Mastic	Non-Fibrous Homogeneous		70% Non-fibrous (Other)	
3-27-Mastic	Throughout	Tan Non-Fibrous		5% Ca Carbonate	None Detected
411703309-0021A	Downstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Cream 12"x12" Floor Tile with Mastic	Homogeneous		95% Non-fibrous (Other)	
3-27-Bottom Floor Tile	Throughout				Positive Stop (Not Analyzed)
411703309-0021B	Downstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Cream 12"x12" Floor Tile with Mastic				
3-27-Mastic	Throughout				Positive Stop (Not Analyzed)
411703309-0021C	Downstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Cream 12"x12" Floor Tile with Mastic				
3-29-Top Floor Tile	Throughout Upstairs	Tan/White		35% Ca Carbonate	None Detected
411703309-0022	Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Brown 12"x12" Floor Tile with Mastic	Non-Fibrous Homogeneous		65% Non-fibrous (Other)	
3-29-Mastic	Throughout Upstairs	Gray/Tan	3% Cellulose	97% Non-fibrous (Other)	None Detected
411703309-0022A	Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Brown 12"x12" Floor Tile with Mastic	Non-Fibrous Homogeneous			



			Non Ashasta		Ashaataa
Sample	Description	Appearance	<u>Non-Asbesto</u> % Fibrous	s % Non-Fibrous	<u>Asbestos</u> % Type
3-29-Bottom Floor Tile 411703309-0022B	Throughout Upstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Brown 12"x12" Floor Tile with Mastic	Beige Non-Fibrous Homogeneous	4% Fibrous (Other)	8% Ca Carbonate 86% Non-fibrous (Other)	2% Chrysotile
3-29-Mastic 411703309-0022C	Throughout Upstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Brown 12"x12" Floor Tile with Mastic	Black Non-Fibrous Homogeneous	3% Cellulose	93% Non-fibrous (Other)	4% Chrysotile
3-30-Top Floor Tile 411703309-0023	Throughout Upstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Brown 12"x12" Floor Tile with Mastic	Tan Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
3-30-Mastic 411703309-0023A	Throughout Upstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Brown 12"x12" Floor Tile with Mastic	Tan Fibrous Homogeneous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
3-30-Bottom Floor Tile 411703309-0023B	Throughout Upstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Brown 12"x12" Floor Tile with Mastic				Positive Stop (Not Analyzed)
3-30-Mastic 411703309-0023C	Throughout Upstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Brown 12"x12" Floor Tile with Mastic				Positive Stop (Not Analyzed)
3-32 411703309-0024	Upstairs Bedroom - Drywall Patch Joint Compound	White Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
3-33	Upstairs Bedroom - Drywall Patch Joint Compound	White Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
3-34 411703309-0026	Upstairs Bedroom - Drywall Patch Joint Compound	White Non-Fibrous Homogeneous		45% Ca Carbonate 55% Non-fibrous (Other)	None Detected
3-35 411703309-0027	Upstairs Bathroom Shower Stall and Sink - White Caulk	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
3-36	Upstairs Bathroom Shower Stall and Sink	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
411703309-0028	- White Caulk	Homogeneous			



			Non-Asbes	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
3-38-Ceramic Tile 411703309-0029	Upstairs Bathroom Flooring - U-350 - Brown Mastic under Ceramic Tile with Grey Leveling Compound Beneath	White Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
3-38-Mastic 411703309-0029A	Upstairs Bathroom Flooring - U-350 - Brown Mastic under Ceramic Tile with Grey Leveling Compound Beneath	Brown/Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
3-38-Leveler 411703309-0029B	Upstairs Bathroom Flooring - U-350 - Brown Mastic under Ceramic Tile with Grey Leveling Compound Beneath	Gray Fibrous Homogeneous	10% Cellulose	10% Quartz 80% Non-fibrous (Other)	None Detected
3-39-Ceramic Tile	Upstairs Bathroom Flooring - U-350 - Brown Mastic under Ceramic Tile with Grey Leveling Compound Beneath	White Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
3-39-Mastic 411703309-0030A	Upstairs Bathroom Flooring - U-350 - Brown Mastic under Ceramic Tile with Grey Leveling Compound Beneath	Brown/Tan Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
3-39-Leveler 411703309-0030B	Upstairs Bathroom Flooring - U-350 - Brown Mastic under Ceramic Tile with Grey Leveling Compound Beneath	Gray Non-Fibrous Homogeneous	5% Cellulose	10% Ca Carbonate 85% Non-fibrous (Other)	None Detected
3-40-Ceramic Tile 411703309-0030C	Upstairs Bathroom Flooring - U-350 - Brown Mastic under Ceramic Tile with Grey Leveling Compound Beneath	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-40-Leveler 411703309-0030D	Upstairs Bathroom Flooring - U-350 - Brown Mastic under Ceramic Tile with Grey Leveling Compound Beneath	Gray Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
3- <b>44</b> 411703309-0031	HVAC System Downstairs - HVAC Mastic - White	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
3-45 411703309-0032	HVAC System Downstairs - HVAC Mastic - White	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
3-47 411703309-0033	Upstairs Bathroom Flooring - U-352 - Square Stone Pattern Vinyl	Gray Fibrous Homogeneous	4% Glass	96% Non-fibrous (Other)	None Detected



			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
3-48 411703309-0034	Upstairs Bathroom Flooring - U-352 - Square Stone Pattern Vinyl	Tan Fibrous Homogeneous	3% Glass	5% Ca Carbonate 92% Non-fibrous (Other)	None Detected
3-53 411703309-0035	nderneath Kitchen Sink - White Coating on Sink	White Non-Fibrous Homogeneous	15% Cellulose	8% Ca Carbonate 5% Mica 72% Non-fibrous (Other)	None Detected
<b>3-54</b> 411703309-0036	nderneath Kitchen Sink - White Coating on Sink	Tan Fibrous Homogeneous	10% Cellulose	8% Ca Carbonate 5% Mica 77% Non-fibrous (Other)	None Detected
3-56 411703309-0037	Exterior Brick Penetration by Awning - Grey Mastic	Gray Fibrous Homogeneous	10% Glass	25% Quartz 65% Non-fibrous (Other)	None Detected
3-57 411703309-0038	Exterior Brick Penetration by Awning - Grey Mastic	Gray Fibrous Homogeneous	8% Glass	30% Quartz 62% Non-fibrous (Other)	None Detected
3-59-Flooring 411703309-0039	Bathroom Floor - U-360 - Stone Pattern Vinyl Floor with Mastic	Beige Fibrous Homogeneous	15% Cellulose 2% Glass	10% Ca Carbonate 73% Non-fibrous (Other)	None Detected
3-59-Mastic 411703309-0039A	Bathroom Floor - U-360 - Stone Pattern Vinyl Floor with Mastic	Tan Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
3-60-Flooring 411703309-0040	Bathroom Floor - U-360 - Stone Pattern Vinyl Floor with Mastic	Beige Fibrous Homogeneous	15% Cellulose 3% Glass	82% Non-fibrous (Other)	None Detected
3-60-Mastic 411703309-0040A	Bathroom Floor - U-360 - Stone Pattern Vinyl Floor with Mastic	Tan Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
3-62-Skim Coat	Bathroom Wet Wall - Plaster with Finish	White Non-Fibrous Homogeneous		5% Quartz 5% Ca Carbonate 90% Non-fibrous (Other)	None Detected
3-62-Rough Coat	Bathroom Wet Wall - Plaster with Finish	Gray Non-Fibrous Homogeneous	2% Cellulose <1% Glass	35% Quartz 63% Non-fibrous (Other)	None Detected
3-63-Skim Coat	Bathroom Wet Wall - Plaster with Finish	White Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
3-63-Rough Coat	Bathroom Wet Wall - Plaster with Finish	Gray Non-Fibrous Homogeneous	1% Cellulose 1% Glass	35% Quartz 63% Non-fibrous (Other)	None Detected
3-64-Skim Coat 411703309-0043	Bathroom Wet Wall - Plaster with Finish	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
3-64-Rough Coat	Bathroom Wet Wall - Plaster with Finish	Gray Non-Fibrous Homogeneous		30% Quartz 5% Ca Carbonate 65% Non-fibrous (Other)	None Detected



## **EMSL** Analytical, Inc.

**376 Crompton Street Charlotte, NC 28273** Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com EMSL Order: 411703309 Customer ID: AXEM25 Customer PO: Project ID:

Analyst(s)

Aaron Hartley (38) Anupriya Tyagi (19) Travis Hartney (6)

Even L Plumker,

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: 05/03/2017 13:38:32

EMSL Analytical, Inc.

376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com EMSL Order: 411703309 Customer ID: AXEM25 Customer PO: Project ID:

Atte	ntion: Nicholas Neerhof
,	Apex Environmental Management
	7 Winchester Court
	Mauldin, SC 29662
	Waululi, 30 29002

Phone: (864) 640-5274 Fax: Received Date: 04/27/2017 10:00 AM Analysis Date: 05/09/2017 Collected Date: 04/25/2017

Project: Cammie Clagett Building #3

#### 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
3-3 411703309-0044	Exterior Metal Window Casings - Black Casing Caulk	Brown Non-Fibrous Homogeneous	100	None	No Asbestos Detected
3-6 411703309-0045	Interior Metal Window Casings - Black Caulk	Brown Non-Fibrous Homogeneous	100	None	No Asbestos Detected
3-15 411703309-0046	Kitchen Counter - White Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
3-18 #11703309-0047	Exterior Brick Penetration by Awning - Brown Caulk	Brown Non-Fibrous Homogeneous	100	None	No Asbestos Detected
3-28-Top Floor Tile 411703309-0048	Throughout Downstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Cream 12"x12" Floor Tile with Mastic	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
3-28-Mastic 411703309-0049	Throughout Downstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Cream 12"x12" Floor Tile with Mastic	Yellow Non-Fibrous Homogeneous	99.3	0.71 Fibrous_Other	No Asbestos Detected
3-31-Top Floor Tile 411703309-0050	Throughout Upstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Brown 12"x12" Floor Tile with Mastic	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
3-31-Mastic 411703309-0051	Throughout Upstairs Flooring - Top - Tan Speckled 12"x12" Floor Tile with Mastic/ Second - Brown 12"x12" Floor Tile with Mastic	Yellow Non-Fibrous Homogeneous	100	None	No Asbestos Detected
3-37 #11703309-0052	Upstairs Bathroom Shower Stall and Sink - White Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected

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

Samples analyzed by EMSL Analytical, Inc. Charlotte, NC

Initial report from: 05/09/2017 12:35:43

ASB\_PLMEPANOB\_0012\_0002 Printed 5/9/2017 12:35:49PM

**EMSL Analytical, Inc.** 376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382

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

Project: Cammie Clagett Building #3

EMSL Order: 411703309 Customer ID: AXEM25 Customer PO: Project ID:

Attention: Nicholas Neerhof	Phone:	(864) 640-5274
Apex Environmental Manage	ement Fax:	
7 Winchester Court	Received Date:	04/27/2017 10:00 AM
Mauldin, SC 29662	Analysis Date:	05/09/2017
	Collected Date:	04/25/2017

#### 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
3-40-Mastic 411703309-0053	Upstairs Bathroom Flooring - U-350 - Brown Mastic under Ceramic Tile with Grey Leveling Compound Beneath	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
3-46 411703309-0054	HVAC System Downstairs - HVAC Mastic - White	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
3-49 <i>411703309-0055</i>	Upstairs Bathroom Flooring - U-352 - Square Stone Pattern Vinyl	Brown/Beige Fibrous Homogeneous	100	None	No Asbestos Detected
3-55 411703309-0056	Underneath Kitchen Sink - White Coating on Sink	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
3-58 411703309-0057	Exterior Brick Penetration by Awning - Grey Mastic	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected
3-61-Flooring 411703309-0058	Bathroom Floor - U-360 - Stone Pattern Vinyl Floor with Mastic	Tan Fibrous Homogeneous	100	None	No Asbestos Detected
3-61-Mastic 411703309-0059	Bathroom Floor - U-360 - Stone Pattern Vinyl Floor with Mastic	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected

Analyst(s)

Aaron Hartley (16)

Evan L. Plumber

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: 05/09/2017 12:35:43

ASB\_PLMEPANOB\_0012\_0002 Printed 5/9/2017 12:35:49PM

EMEL	Asbestos Ch EMSL Order Ne			376 Crom	alytical, Inc. pton Street
EMSL ANALYTICAL, INC.	(7765)			Charlotte, NC 28273 PHONE: (704) 525-2	
LABORATORY+PRODUCTS+TRAINING				FAX:	(704) 525-2382
Company Name : Apex Environme	ntal Management	EMSL Cust	omer ID:		
Street: 7 Winchester Court		City: Maulo	lin	State/Provin	ce: SC
Zip/Postal Code: 29662	Country: US	Telephone	#: 864-404-3210	Fax #:	
Report To (Name): Tom Olic	er	Please Prov	vide Results:	Fax 🗹 Email	
Email Address: toliver ear	ex-ehs.com	Purchase C	order:		
Project Name/Number: Cammi	c Clagett Bldg 3		ect ID (Internal Use		
	Bill to: 🖸 Same 🔲 Different		s: Commercial		dential/Tax Exempt
3 Hour     6 Hour     For TEM Air 3 hr through 6 hr, please call	Third Party Billing requires w Turnaround Time (TA' 24 Hour 48 Hour ahead to schedule.*There is a premi Analysis completed in accordance TEM – Air 4-4.5hr TAT AHERA 40 CFR, Part 7 AHERA 40 CFR, Part 7 AHERA 40 CFR, Part 7 NIOSH 7402 EPA Level II ISO 10312 TEM - Bulk TEM - Bulk TEM EPA NOB NYS NOB 198.4 (non-fit Chatfield SOP TEM Mass Analysis-EP TEM – Water: EPA 100.2 Fibers >10µm Waste All Fiber Sizes Waste	ritten authorizatio T) Options* – P T 2 Hc ium charge for 3 Hc with EMSL's Ter (AHERA only) 763 (AHERA only) (AHERA only	n from third party lease Check our 96 Ho our TEM AHERA or EF ms and Conditions loc TEM- Dust Microvac - AS Wipe - ASTM Carpet Sonic Soil/Rock/Verm PLM EPA 60 TEM EPA 60 TEM Qualitat TEM Qualitat	ur Neek A Level II TAT. You v ated in the Analytical F STM D 5755 I D6480 ation (EPA 600/J-9 iculite 0/R-93/116 with mi 0/R-93/116 with mi 0/R-93/116 with mi ive via Filtration Pr ive via Drop Mount ethod EPA 600/R-0	Price Guide. 93/167) Illing prep (<1%) Illing prep (<0.25%) Illing prep (<0.1%) ep : Prep 4/004 – PLM/TEM
Samplers Name:	Tom Oliver	Samplers	Signature:	11.	
Sample # 3-65 HVIA	Sample Descript- tape n/ Mast	otion	Vol	Iume/Area (Air) HA # (Bulk) MCM	Date/Time Sampled
1 66	1				
6					
+ 01	-		(	En	
Client Sample # (s):	,65-10 t	14-89	Total	# of Samples:	21
Relinquished (Client):	Dat	e: 12-4-1	17	Time:	
Received (Lab):	Dat	e: 12/5/	7		9Am
Comments/Special Instructions:		GER	c 79537	7978418	
	Page 1 o	f <u>2</u> pages			

Controlled Document - Asbestos COC - R10 - 05/09/2016



EMSL Analytical, Inc. 376 Crompton Street

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
5-68	Roof + anning shingles (3) +	PLM	
1 69	felt (1)	1	
10		TEM	
21	Sample #'s not used		
12	8		
23			
74	Awing & flashing Calle	PLM	
. 75	1	L	
76		TEM	
1 27	Rout goble vent call	PLM	
18	1	1	al a chief a chief
79		TEM	
80	Painted motel pipe - vent popes	pin	
81			
82			
83	Dlove & gray mastic on rost	PLM	
84	penetrations )		
85		TEM	10-1-1
86	Plaster of finish over unfinished	FEM	
87	drywell	Ţ	
_ 88	Unfinished Plastorywold under Plastor of Finish	PLM	
and the second second			P. 61
*Comments/Special I	nstructions:		3.120.00

Page 2 of 2 pages

Controlled Document - Asbestos COC - R10 - 05/09/2016

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com

Apex Environmental Management

7 Winchester Court Mauldin, SC 29662

Project: Cammie Clagett Bldg. 3

Attention: Tom Oliver

EMSL Order: 021707765 Customer ID: AXEM25 Customer PO: Project ID:

(864) 640-5274
12/06/2017 9:00 AM
12/11/2017 - 12/12/2017
12/04/2017

			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
3-65-Tape	HVAC Tape w/ Mastic	Tan/Silver/Beige Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected
021707765-0001		Heterogeneous			
3-65-Mastic	HVAC Tape w/ Mastic	Yellow Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected
	LIV/AC Tana w/ Maatia	Homogeneous		20% Non fibrous (Other)	None Detected
3-66-Tape	HVAC Tape w/ Mastic	Tan/Silver/Beige Fibrous Heterogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
3-66-Mastic	HVAC Tape w/ Mastic	Beige	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707765-0002A	TIVAC Tape w/ Mastic	Non-Fibrous Homogeneous			None Delected
3-68-Shingle 1	Roof/Awning	Gray/Black	<1% Cellulose	95% Non-fibrous (Other)	None Detected
021707765-0004	Shingles/Felt	Fibrous Heterogeneous	5% Glass		
3-68-Shingle 2	Roof/Awning	Brown/Black/Orang	<1% Cellulose	95% Non-fibrous (Other)	None Detected
021707765-0004A	Shingles/Felt	e Fibrous	5% Glass		
	Deef/Aussis	Heterogeneous	410/ Oall Isaa		Nega Detecto 1
3-68-Shingle 3	Roof/Awning Shingles/Felt	Brown/Black/Orang e	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
021707765-0004B	g	Fibrous Heterogeneous			
3-68-Felt	Roof/Awning Shingles/Felt	Brown/Black Fibrous	80% Cellulose	20% Non-fibrous (Other)	None Detected
021707765-0004C		Homogeneous			
3-69-Shingle 1	Roof/Awning Shingles/Felt	Brown/Black/Orang e	8% Glass	92% Non-fibrous (Other)	None Detected
021707765-0005		Fibrous Heterogeneous			
3-69-Shingle 2	Roof/Awning Shingles/Felt	Gray/Black/Green Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
021707765-0005A	Ū	Heterogeneous			
3-69-Shingle 3	Roof/Awning Shingles/Felt	Gray/Black Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
021707765-0005B		Heterogeneous			
3-69-Felt	Roof/Awning Shingles/Felt	Black Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected
021707765-0005C		Homogeneous			
3-74	Awning/Flashing Caulk	Tan/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707765-0007		Homogeneous			
3-75	Awning/Flashing Caulk	Tan/White Non-Fibrous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707765-0008		Homogeneous			
3-77	Roof Goble Vent Caulk	Beige/Rust/Orange Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707765-0010		Heterogeneous			



			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
3-78	Roof Goble Vent Caulk	Beige Non-Fibrous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707765-0011		Homogeneous			
3-80	Painted Metal Pipe- Vent Pipes	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707765-0013		Homogeneous			
3-81	Painted Metal Pipe- Vent Pipes	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707765-0014		Homogeneous			
3-82	Painted Metal Pipe- Vent Pipes	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707765-0015		Homogeneous			
3-83	Black/Gray Mastic on Roof Penetrations	Brown/Gray/Black Fibrous	3% Cellulose	94% Non-fibrous (Other)	3% Chrysotile
021707765-0016		Heterogeneous			
3-84	Black/Gray Mastic on Roof Penetrations				Positive Stop (Not Analyzed)
021707765-0017					
3-86-Skim Coat	Plaster w/ Finish Over Unfinished Drywall	White/Beige Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707765-0019		Homogeneous			
3-86-Rough Coat	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray/Tan Non-Fibrous	1% Cellulose	30% Quartz 69% Non-fibrous (Other)	None Detected
021707765-0019A		Heterogeneous			
3-86-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707765-0019B		Heterogeneous			
3-87-Skim Coat	Plaster w/ Finish Over Unfinished Drywall	White/Beige Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707765-0020		Homogeneous			
3-87-Rough Coat	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray/Tan Non-Fibrous	<1% Cellulose	30% Quartz 70% Non-fibrous (Other)	None Detected
021707765-0020A		Homogeneous			
3-87-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707765-0020B		Heterogeneous			
3-88	Unfinished Drywall Under Plaster Finish	Brown/Gray Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected
021707765-0021 Only drywall present		Heterogeneous			

Analyst(s)

Nicole Shutts (10) Scott Combs (17)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. 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. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 12/12/2017 11:03:24

EMSL

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com EMSL Order: 021707765 Customer ID: AXEM25 Customer PO: Project ID:

Attention: Tom Oliver Apex Environmental Management 7 Winchester Court Mauldin, SC 29662 
 Phone:
 (864) 640-5274

 Fax:
 Fax:

 Received Date:
 12/06/2017 9:00 AM

 Analysis Date:
 12/11/2017 - 12/12/2017

 Collected Date:
 12/04/2017

Project: Cammie Clagett Bldg. 3

#### 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
3-67-Tape	HVAC Tape w/ Mastic	Silver	100	None	No Asbestos Detected
021707765-0003		Non-Fibrous			
		Homogeneous			
3-67-Mastic	HVAC Tape w/ Mastic	Tan	100	None	No Asbestos Detected
021707765-0003A		Fibrous			
		Heterogeneous			
3-70-Shingle 1	Roof/Awning Shingles/Felt	Brown/Tan/Red	100	None	No Asbestos Detected
021707765-0006		Fibrous			
		Heterogeneous			
3-70-Shingle 2	Roof/Awning Shingles/Felt	Brown/Tan/Red	100	None	No Asbestos Detected
021707765-0006A		Fibrous			
		Heterogeneous			
3-70-Shingle 3	Roof/Awning Shingles/Felt	Black	100	None	No Asbestos Detected
021707765-0006B		Fibrous			
		Heterogeneous			
3-70- Felt	Roof/Awning Shingles/Felt	Black	100	None	No Asbestos Detected
021707765-0006C		Fibrous			
		Homogeneous			
3-76	Awning/Flashing Caulk	Gray	100	None	No Asbestos Detected
021707765-0009		Non-Fibrous			
		Homogeneous			
3-79	Roof Goble Vent Caulk	Beige	100	None	No Asbestos Detected
021707765-0012		Non-Fibrous			
		Homogeneous			
3-85	Black/Gray Mastic on Roof				
021707765-0018	Penetrations				

Positive Stop (Not Analyzed)

Analyst(s)

Stephen Bennett (8)

Stephen Bennett, 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. Kernersville, NC

Initial report from: 12/12/2017 08:30:05

ASB\_PLMEPANOB\_0012\_0002 Printed 12/12/2017 8:30:12AM

Page 1 Of

EMSL Analytical, Inc. 376 Crompton Street

Asbest	os Bulk	Building	Material
	Chain o	f Custod	У
	- · ·		

EMSL Order Number (Lab Use Only):

411703310

EMSL ANALYTICAL, INC.

EMS

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

Company :	Apex Environmer	ntal Management			Same 🗹 Different	
Street: 7 Wi	nchester Court		Third Party	Billing requires writt	en authorization from	n third party
City: Mauldi	and the second se	State/Province: SC	Zip/Postal Code		Country: US	
Report To (I	Name): Nicholas N	Neerhof	Telephone #: 86	64-404-3210		
	ess: nneerhof@a		Fax #:		Purchase Order	:
Project Nam	ne/Number: (ammi	c Clugett building 4	Please Provide			Aail
U.S. State S	amples Taken: SC	3			able 🗌 Resider	tial/Tax Exempt
☐ 3 Hour	6 Hour	Turnaround Time (T		ase Check	1 Week	2 Week
*For TEM Air :	3 hr through 6 hr. pleas	se call ahead to schedule.*There is a p	remium charge for 3 Ho	UT TEM AHERA or EP	A Level II TAT. You M	vill be asked to sign
an aut		service. Analysis completed in accord	dance with EMSL's Tern			Price Guide.
	PLM - Bulk (re		TEM EPA NOB	<u>TEM –</u>		1
	600/R-93/116 (<1	70)	NY ELAP Metho		110 Section 2.5.5.	
	□ 400 (<1%)	7 1000 (<0.1%)	Chatfield Protoc		ive)	
		00 (<0.25%) 1000 (<0.1%)	TEM % by Mas	And the Company and and the second se	the of the second of the of the birth of the second of the second of the	2
spine a construction distribution of	and discrete many many reserves a second second	00 (~0.20%) [] 1000 (~0.1%)	TEM Qualitative	1 11 - 1311 - 1 101 - 1 101 - 1 101 - 1 10 - 111 - 111 - 1 11 - 1 11 - 1 11 - 1 11 - 1 11 - 1 11 - 1 11 - 1 11	- allow many over all entering over several and all the	••••
A RECEPTION OF THE PARTY OF THE	0002 (<1%) P Method 198.1 (fria	able in NV)		e via Drop Mount F		and a second sec
		DB (non-friable-NY)		Oth	the second s	
	0-191 Modified		_		-	
	Addition Method					
	D 111 01		Course Data Car	pled: 4-25	-17	N. SAME
Check Fo		Clearly Identify Homogenous	Group Date Sam	ipled: 1 2 J	(1	-
Samplers Na	ame:	Vicholas Neerhof	Samplers Sig	nature: 0 7	1 Alexandress of the second se	
					1	
Sample #	HA #	Sample Location			aterial Descriptio	
4-1		throughout	. 1	Drywa	Il with Joint and Dape	company
4-2					and pape	
4-3			- CALLER - CALLER			
4-4						
4-6						
4-7			1			1
4-8	p.	throom well		plaster w	il finish	aver
11-9	1) 50	+1100m V-11		under al	drug ul	over
41				untinished	VITY Mall	1
4-10			11 20	I		
Client Samp	le # (s):	4-1 -	4-38	Total # o	f Samples: 35	
Relinquishe	d (Client): Nich	olas Neerlot Dat	te: 4-26-17		Time:	
Received (La	ab): Kule Non	Dat	te: 4/27/17		Time: 10	00An Flx
Comments/S Please utilize positi BillTo: Apex Enviro	Special Instruction tive stop analysis. onmental Management, 7 Wi				7952 7822	3708
		Page 1 of	pages			

Page 2 Of



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

# 411703310

EMSL Analytical, Inc. 376 Crompton Street

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample #	HA #	Sample Location		Material Description
4-11		Bathroom will		Plaster with finish over .
N				untinished dry will
TO AND	-			
4-4-26-15		Bathroom floor U-351	1 (	Grey large square pattern
4-16				Vinyl floor with mastic
4-17			1	4
4-18		under kitclen sink		white costing on sink 1
4-19				
4-20	KC - 19		-	
4-21		Kitchen counter	1	kitchen counter caulle 1
4-22				
4-23		Contraction of the second s		L. S.
4-24		Bashroom shover still		shover still and sink caulky
4-25		and sink		
4-26			1	Ţ
4-27		HVAC closet	1.1.1	white HVAC caulk,
4-28				
4-29	T. A.	-		
4-30		Front bedroom	1	interior window Caule 1
21-31				
4-32			1	
4-33		Kitchen - under sigk		Black at conting on Sink 1
4-34				
4-35		-	1	
Please utilize pos BillTo: Apex Envi	sitive stop and ironmental Ma	al Instructions: alysis. anagement, 7 Winchester Court, Mauldin, SC, 29662, US one: 864-404-3210 Email: rshultz@apex-ehs.com Purchase Order:		
1 2 1		Page 2 of 3 r	ages	

3

Page 3 Of

EMSL
EMSL ANALYTICAL, INC.
LABORATORY . PRODUCTS . TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

# 41170 3310

EMSL Analytical, Inc. 376 Crompton Street

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample #	HA #	Sample	e Location			Materia	l Descript	ion	
21-36		Kitchen -	back splash (u	ndernearl)	mastic	under	Stove	back spla	sh
U-37									
4-38				1					1
	6								
	2 2 2 3					2.			
3-81									
								1.000	
		Bellevel and a second						Sec.	
	Print Print							1 Sector	
						- Andres			
1.000									
								1 6.6	
							1.44		
			Sec. Dates	1.1.1		1		- Angele	and a
					×				
								1.1	
*Comment	s/Specia	Instructions:							
Please utilize posi BillTo: Apex Envir	tive stop ana onmental Ma		29662, US com Purchase Order:						
			Page 3 of 3	pages	*****				
				- Fugue					

EMSL Order: 411703310 **EMSL** Analytical, Inc. Customer ID: AXEM25 376 Crompton Street Charlotte, NC 28273 IMSL **Customer PO:** Tel/Fax: (704) 525-2205 / (704) 525-2382 Project ID: http://www.EMSL.com / charlottelab@emsl.com Attention: Nicholas Neerhof Phone: (864) 640-5274 Apex Environmental Management Fax: 7 Winchester Court Received Date: 04/27/2017 10:00 AM Mauldin, SC 29662 Analysis Date: 05/02/2017 Collected Date: 04/25/2017 Project: Cammie Clagett Building #4

			Non-Asbe		Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
-1-Drywall	Throughout - Drywall with Joint Compound and Tape	Brown/White Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected	
No tape present.						
4-1-Joint Compound	Throughout - Drywall with Joint Compound and Tape	Beige Fibrous Homogeneous		30% Ca Carbonate 68% Non-fibrous (Other)	2% Chrysotile	
4-2-Drywall	Throughout - Drywall	Brown/White	5% Cellulose	95% Non-fibrous (Other)	None Detected	
11703310-0002	with Joint Compound and Tape	Fibrous Homogeneous	5% Cellulose		None Delected	
4-2-Joint Compound	Throughout - Drywall with Joint Compound				Positive Stop (Not Analyzed	
411703310-0002A	and Tape					
4-2-Tape	Throughout - Drywall with Joint Compound	Tan Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected	
411703310-0002B	and Tape	Homogeneous				
4-3-Drywall	Throughout - Drywall with Joint Compound	Brown/White Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected	
411703310-0003	and Tape	Homogeneous			Desilier Oten (Net Arreline)	
4-3-Joint Compound	Throughout - Drywall with Joint Compound and Tape				Positive Stop (Not Analyzed	
4-3-Tape	Throughout - Drywall	Tan	99% Cellulose	1% Non-fibrous (Other)	None Detected	
411703310-0003B	with Joint Compound and Tape	Fibrous Homogeneous	33 /0 Cellulose		None Delected	
4-4-Drywall	Throughout - Drywall	Brown/White	8% Cellulose	92% Non-fibrous (Other)	None Detected	
411703310-0004	with Joint Compound and Tape	Fibrous Homogeneous				
4-4-Joint Compound	Throughout - Drywall with Joint Compound				Positive Stop (Not Analyzed	
411703310-0004A	and Tape					
4-4-Tape	Throughout - Drywall with Joint Compound	Tan Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected	
411703310-0004B	and Tape	Homogeneous				
4-5-Drywall	Throughout - Drywall with Joint Compound	Brown/White Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected	
	and Tape	Homogeneous			Desitive Oten (Net Analyzed	
4-5-Joint Compound	Throughout - Drywall with Joint Compound and Tape				Positive Stop (Not Analyzed	
4-5-Tape	Throughout - Drywall	Tan	99% Cellulose	1% Non-fibrous (Other)	None Detected	
411703310-0005B	with Joint Compound and Tape	Fibrous Homogeneous			None Delected	
4-6-Drywall	Throughout - Drywall with Joint Compound	Brown/White Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected	
411703310-0006	and Tape	Homogeneous				
4-6-Joint Compound	Throughout - Drywall with Joint Compound				Positive Stop (Not Analyzed	
411703310-0006A	and Tape					



			Non-Asbe	<u>stos</u>	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
4-6-Tape	Throughout - Drywall with Joint Compound and Tape	Tan Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
4-7-Drywall	Throughout - Drywall with Joint Compound	Brown/White Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
411703310-0007	and Tape	Homogeneous			
4-7-Joint Compound	Throughout - Drywall with Joint Compound				Positive Stop (Not Analyzed
411703310-0007A	and Tape	<b>T</b>	1000/ 01		News Datastad
4-7-Tape	Throughout - Drywall with Joint Compound and Tape	Tan Fibrous Homogeneous	100% Glass		None Detected
4-8-Drywall	Bathroom Wall -	Gray	8% Cellulose	92% Non-fibrous (Other)	None Detected
411703310-0008	Plaster with Finish over Unfinished Drywall	Fibrous Homogeneous			
4-8-Skim Coat	Bathroom Wall - Plaster with Finish over Unfinished	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
	Drywall				
4-8-Rough Coat	Bathroom Wall - Plaster with Finish	Gray Non-Fibrous		30% Quartz 8% Ca Carbonate	None Detected
411703310-0008B	over Unfinished Drywall	Homogeneous		62% Non-fibrous (Other)	
4-9-Drywall	Bathroom Wall - Plaster with Finish	Gray Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected
411703310-0009	over Unfinished Drywall	Homogeneous			
4-9-Skim Coat	Bathroom Wall -	White		10% Ca Carbonate	None Detected
411703310-0009A	Plaster with Finish over Unfinished Drywall	Non-Fibrous Homogeneous		90% Non-fibrous (Other)	
4-9-Rough Coat	Bathroom Wall - Plaster with Finish	Gray Non-Fibrous		30% Quartz 5% Ca Carbonate	None Detected
411703310-0009B	over Unfinished Drywall	Homogeneous		65% Non-fibrous (Other)	
4-10-Skim Coat	Bathroom Wall - Plaster with Finish	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
411703310-0010	over Unfinished Drywall	Homogeneous			
4-10-Rough Coat	Bathroom Wall - Plaster with Finish	Gray Non-Fibrous		30% Quartz 8% Ca Carbonate	None Detected
411703310-0010A	over Unfinished Drywall	Homogeneous		62% Non-fibrous (Other)	
4-11-Drywall	Bathroom Wall - Plaster with Finish	Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
411703310-0011	over Unfinished Drywall	Homogeneous			
4-11-Skim Coat	Bathroom Wall - Plaster with Finish	White Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
411703310-0011A	over Unfinished Drywall	Homogeneous			
4-11-Rough Coat	Bathroom Wall - Plaster with Finish	Gray Non-Fibrous		25% Quartz 5% Ca Carbonate	None Detected
411703310-0011B	over Unfinished Drywall	Homogeneous		70% Non-fibrous (Other)	



			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
4-15-Flooring #11703310-0012	Bathroom Floor - U-351 - Grey Large Square Pattern Vinyl Floor with Mastic	Gray Fibrous Homogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
4-15-Mastic 411703310-0012A	Bathroom Floor - U-351 - Grey Large Square Pattern Vinyl Floor with Mastic	Tan Fibrous Homogeneous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
4-16-Floor Tile	Bathroom Floor - U-351 - Grey Large Square Pattern Vinyl Floor with Mastic	Gray Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
4-16-Mastic 411703310-0013A	Bathroom Floor - U-351 - Grey Large Square Pattern Vinyl Floor with Mastic	Tan Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
4-18 411703310-0014	Under Kitchen Sink - White Coating on Sink	Tan Fibrous Homogeneous	15% Cellulose	8% Ca Carbonate 5% Mica 72% Non-fibrous (Other)	None Detected
4-19	Under Kitchen Sink - White Coating on Sink	Tan Fibrous Homogeneous	30% Cellulose	5% Ca Carbonate 65% Non-fibrous (Other)	None Detected
4-21	Kitchen Counter - Kitchen Counter	White Non-Fibrous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
411703310-0016 4-22	Caulk Kitchen Counter - Kitchen Counter	Homogeneous White Non-Fibrous		100% Non-fibrous (Other)	None Detected
411703310-0017	Caulk	Homogeneous			
4-24 411703310-0018	Bathroom Shower Stall and Sink - Shower Stall and Sink Caulk	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
4-25 411703310-0019	Bathroom Shower Stall and Sink - Shower Stall and Sink Caulk	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
4-27 411703310-0020	HVAC Closet - White HVAC Caulk	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
411703310-0021	HVAC Closet - White HVAC Caulk	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
4-30	Front Bedroom - Interior Window Caulk	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
4-31	Front Bedroom - Interior Window Caulk	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
411703310-0023 4-33	Kitchen - Under Sink - Black Coating on Sink	Homogeneous Black Fibrous		8% Ca Carbonate 90% Non-fibrous (Other)	2% Chrysotile
411703310-0024 4-34	Kitchen - Under Sink - Black Coating on Sink	Homogeneous			Positive Stop (Not Analyzed)
411703310-0025					
4-36 411703310-0026	Kitchen - Backsplash (Underneath) - Mastic under Stove Backsplash	White/Clear Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected



EMSL Order: 411703310 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

			Non-A	sbestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
4-37	Kitchen - Backsplash	White		5% Ca Carbonate	None Detected
	(Underneath) - Mastic	Non-Fibrous		95% Non-fibrous (Other)	
411703310-0027	under Stove	Homogeneous			
	Backsplash				

Analyst(s)

Anupriya Tyagi (27) Lacy Searcy (15)

Evan L. Plumber

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: 05/03/2017 14:39:09

**EMSL Analytical, Inc.** 376 Crompton Street Charlotte, NC 28273

Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com EMSL Order: 411703310 Customer ID: AXEM25 Customer PO: Project ID:

1	Attention:	Nicholas Neerhof
		Apex Environmental Management
		7 Winchester Court
		Mauldin, SC 29662

Project ID: Phone: (864) 640-5274

 Phone:
 (864) 640-5274

 Fax:
 Received Date:
 04/27/2017 10:00 AM

 Analysis Date:
 05/09/2017

 Collected Date:
 04/25/2017

#### Project: Cammie Clagett Building #4

#### 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
4-17-Floor Tile 411703310-0028	Bathroom Floor - U-351 - Grey Large Square Pattern Vinyl Floor with Mastic	Brown/Gray Fibrous Heterogeneous	100	None	No Asbestos Detected
4-17-Mastic 411703310-0029	Bathroom Floor - U-351 - Grey Large Square Pattern Vinyl Floor with Mastic	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
4-20 411703310-0030	Under Kitchen Sink - White Coating on Sink	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
4-23 411703310-0031	Kitchen Counter - Kitchen Counter Caulk	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
4-26 411703310-0032	Bathroom Shower Stall and Sink - Shower Stall and Sink Caulk	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
4-29 411703310-0033	HVAC Closet - White HVAC Caulk	Beige Non-Fibrous Homogeneous	99.9	0.11 Fibrous_Other	No Asbestos Detected
4-32 411703310-0034	Front Bedroom - Interior Window Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
4-38 411703310-0035	Kitchen - Backsplash (Underneath) - Mastic under Stove Backsplash	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected

Analyst(s)

Aaron Hartley (8)

Evan L Plumber

Lee Plumley, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Charlotte, NC

Initial report from: 05/09/2017 12:36:33

ASB\_PLMEPANOB\_0012\_0002 Printed 5/9/2017 12:36:37PM

EMSL	Asbestos Cha EMSL Order Na				oton Street
EMSL ANALYTICAL, INC.		Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382			
Company Name : Apex Enviror	nmental Management	EMSL Custor	mor ID:		(101)0202002
Street: 7 Winchester Court		City: Mauldin	and the second se	State/Provin	ce. SC
Zip/Postal Code: 29662	Country: US		864-404-3210	Fax #:	
Report To (Name): Tom (		Please Provi		ax 🗹 Email	
Email Address: toliverp	and the second state of th	Purchase Or			
Project Name/Number: Car U.S. State Samples Taken:	nnie Clagett Blog 4	EMSL Projec CT Samples:	t ID (Internal Use C	axable 🗌 Resid	dential/Tax Exempt
EN	ISL-Bill to: Same Different Third Party Billing requires w			ments**	
	Turnaround Time (TAT	r) Options* – Ple	ease Check		
*For TEM Air 3 hr through 6 hr, please	call ahead to schedule.*There is a premi				vill be asked to sign an
authorization form for this s	ervice. Analysis completed in accordance	e with EMSL's Term	and Conditions locate	ed in the Analytical F	Price Guide.
PCM - Air Check if samples a from NY	re <u>TEM – Air</u> 4-4.5hr TAT	(AHERA only)	TEM- Dust		
NIOSH 7400	AHERA 40 CFR, Part 7	763	Microvac - AST	M D 5755	
w/ OSHA 8hr. TWA	NIOSH 7402		Wipe - ASTM D	06480	
PLM - Bulk (reporting limit)	EPA Level II			ion (EPA 600/J-9	93/167)
PLM EPA 600/R-93/116 (<1%)		Soil/Rock/Vermiculite			
PLM EPA NOB (<1%) Point Count	TEM - Bulk	PLM EPA 600/R-93/116 with milling prep (<1%) PLM EPA 600/R-93/116 with milling prep (<0.25%)			
☐ 400 (<0.25%) ☐ 1000 (<0.1%)	) NYS NOB 198.4 (non-fr Chatfield SOP ) TEM Mass Analysis-EP. TEM – Water: EPA 100.2	A 600 sec. 2.5	TEM EPA 600/	R-93/116 with m e via Filtration Pr e via Drop Mount	illing prep (<0.1%) rep
_/	learly Identify Homogenous Gro		Pore Size (Air Sam Signature:	iples): 0.8µ	m0.45µm
Sample #			Volu	me/Area (Air)	Date/Time
4- 51 AV	Sample Descrip AL taxe	nion	01	A # (Bulk)	Sampled
1 62	ne nape		10		
62			-	=m	C. E. Martin
	<u>·</u>				
				a	1
Client Sample # (s):	51-56 + 60	5-71	Total #	of Samples:	/18
Relinquished (Client):	Dat	e: 12-4-1	17	Time:	
Received (Lab):	Dat	e: 12/10/1-		Time:	9Am
		ETX 798	5379784	1183	
	Page 1 of	f_2 pages			

Controlled Document - Asbestos COC - R10 - 05/09/2016

OrderID: 021707751

	Asbestos Chain of Custody	376 Crompton Street
EN EMSL ANALYTICAL, INC.	EMSL Order Number (Lab Use Only):	Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

EMSL Analytical, Inc.

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
4-54	Roof & awning shingles (3) &	PLM	
1 55	felt (1)	PLM	
56		TEM	
57	Sample #'s not used		
58			
59			
60	Awaing & flashing COULK	PLM	
- 61		1	
62		TEM	
63	Roof gable vont calk	plm	
64			
65		TEM	Sec. No.
66	Painted metal pipe-ventpipes	Plan	
67		L	
68		TEM	
69	Black of gray mostic on roof	pin	
70	Black & gray mostic on roof penetrations		
1 71		TEM	
		and the second	
*Comments/Special Ins	structions:		
and the second second			Seal Street
			an deserved

Page 2 of 2 pages

Controlled Document - Asbestos COC - R10 - 05/09/2016

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com

Apex Environmental Management

7 Winchester Court Mauldin, SC 29662

Project: Cammie Clagett Bldg 4

Attention: Tom Oliver

EMSL Order: 021707751 Customer ID: AXEM25 Customer PO: Project ID:

(864) 640-5274
12/06/2017 9:00 AM
12/11/2017
12/04/2017

		Non-Asbestos			Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
4-51-Tape	HVAC Tape	Gray/Silver Fibrous	20% Cellulose 15% Synthetic	65% Non-fibrous (Other)	None Detected	
021707751-0001		Homogeneous				
4-51-Mastic	HVAC Tape	Beige Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected	
	LIV/AC Topo	Homogeneous	40% Cellulose	45% Non fibrous (Other)	None Detected	
4-52-Tape	HVAC Tape	Tan/Silver Fibrous Homogeneous	15% Synthetic	45% Non-fibrous (Other)	None Detected	
	HVAC Tape	Tan	<1% Cellulose	100% Non-fibrous (Other)	None Detected	
4-52-Mastic	HVAC Tape	Non-Fibrous Homogeneous		100% Non-librous (Other)	None Delected	
	Roof/Awning	Brown/Tan/Red	8% Glass	92% Non-fibrous (Other)	None Detected	
4-54-Shingle 1	Shingles/Felt	Fibrous Homogeneous	0% Glass	92% Non-horous (Other)	None Delected	
4-54-Shingle 2	Roof/Awning	Brown/Tan/Red	8% Glass	92% Non-fibrous (Other)	None Detected	
	Shingles/Felt	Fibrous	0 /0 01035			
021707751-0004A		Homogeneous				
4-54-Shingle 3	Roof/Awning Shingles/Felt	Black Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected	
021707751-0004B		Homogeneous				
4-54-Felt	Roof/Awning Shingles/Felt	Black Fibrous	65% Cellulose	35% Non-fibrous (Other)	None Detected	
021707751-0004C		Homogeneous				
4-55-Shingle 1	Roof/Awning Shingles/Felt	Brown/Tan/Red Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected	
021707751-0005		Heterogeneous				
4-55-Shingle 2	Roof/Awning Shingles/Felt	Brown/Tan/Red Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected	
021707751-0005A		Heterogeneous				
4-55-Shingle 3	Roof/Awning Shingles/Felt	Black Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected	
021707751-0005B		Heterogeneous				
4-55-Felt	Roof/Awning Shingles/Felt	Black Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected	
021707751-0005C		Homogeneous				
4-60	Awning/Flashing Caulk	Gray/Tan/White Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected	
021707751-0007		Homogeneous				
4-61	Awning/Flashing Caulk	Gray/Tan/White Non-Fibrous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
021707751-0008		Homogeneous				
4-63	Roof Goble Vent Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected	
021707751-0010		Homogeneous				
4-64	Roof Goble Vent Caulk	Beige Non-Fibrous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
021707751-0011		Homogeneous				



			<u>Non-A</u>	sbestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
4-66	Painted Metal Pipe- Vent Pipes	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707751-0013		Homogeneous			
4-67	Painted Metal Pipe- Vent Pipes	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707751-0014		Homogeneous			
4-69	Black/Gray Mastic on Roof Penetrations	Gray/Black Fibrous		96% Non-fibrous (Other)	4% Chrysotile
021707751-0016		Homogeneous			
4-70	Black/Gray Mastic on Roof Penetrations				Positive Stop (Not Analyzed)
021707751-0017					

Analyst(s)

Kristie Elliott (10) Nicole Shutts (9)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 12/11/2017 14:52:34

EMSL

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com

Apex Environmental Management

EMSL Order: 021707751 Customer ID: AXEM25 Customer PO: Project ID:

 Phone:
 (864) 640-5274

 Fax:
 Fax:

 Received Date:
 12/06/2017 9:00 AM

 Analysis Date:
 12/11/2017 - 12/12/2017

 Collected Date:
 12/04/2017

Project: Cammie Clagett Bldg 4

7 Winchester Court

Mauldin, SC 29662

Attention: Tom Oliver

#### 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
4-53-Tape	HVAC Tape	Silver	100	None	No Asbestos Detected
021707751-0003		Non-Fibrous			
		Homogeneous			
4-53-Mastic	HVAC Tape	Tan	100	None	No Asbestos Detected
021707751-0003A		Fibrous			
		Heterogeneous			
4-56-Shingle 1	Roof/Awning Shingles/Felt	Brown/Tan/Red	100	None	No Asbestos Detected
021707751-0006		Fibrous			
		Heterogeneous			
4-56-Shingle 2	Roof/Awning Shingles/Felt	Brown/Tan/Red	100	None	No Asbestos Detected
021707751-0006A		Fibrous			
		Heterogeneous			
4-56-Shingle 3	Roof/Awning Shingles/Felt	Black	100	None	No Asbestos Detected
021707751-0006B		Fibrous			
		Heterogeneous			
4-56-Felt	Roof/Awning Shingles/Felt	Black	100	None	No Asbestos Detected
021707751-0006C		Fibrous			
		Homogeneous			
4-62	Awning/Flashing Caulk	Gray	100	None	No Asbestos Detected
021707751-0009		Non-Fibrous			
		Homogeneous			
4-65	Roof Goble Vent Caulk	White/Beige	100	None	No Asbestos Detected
021707751-0012		Non-Fibrous			
		Heterogeneous			
4-68	Painted Metal Pipe- Vent	Gray	100	None	<1.0% Chrysotile
021707751-0015	Pipes	Non-Fibrous			
		Homogeneous			
4-71	Black/Gray Mastic on Roof				
021707751-0018	Penetrations				
	-				
Positive	Stop (Not Analyzed)				

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 12/12/2017 10:13:52

EMSL	EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:			
Attention:	Tom Oliver Apex Environmental Management 7 Winchester Court Mauldin, SC 29662	Phone: Fax: Received Date: Analysis Date:	(864) 640-5274 12/06/2017 9:00 AM 12/11/2017 - 12/12/2017		
Project:	Cammie Clagett Bldg 4	Collected Date:	12/04/2017		
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

Analyst(s)

Stephen Bennett (9)

Barnett The

Stephen Bennett, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 12/12/2017 10:13:52

EMS

EMSL ANALYTICAL, INC.

Page 1 Of

EMSL Analytical, Inc. 376 Crompton Street

sbest	os	Βι	IIK	Buildi	ng Ma	aterial
	Cł	nair	٦o	f Cust	ody	
		21	1000			

EMSL Order Number (Lab Use Only):

4117 03311

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

Company	Apex Environment	al Management					Same 🗹 Different Same		
Street: 7 V	Vinchester Court			Third Party	Billing	requires writte	en authorization fro	om thir	d party
City: Maul		State/Province: SC	Zip/	Postal Code	: 2966	62	Country: US		
Report To	(Name): Nicholas No	eerhof	Tele	phone #: 86	4-404	-3210			- diat
	ress: nneerhof@ap		Fax	#:			Purchase Ord	er:	
Project Na	me/Number: Cann	nie Clagett Build.		ase Provide I			Email	Mail	
U.S. State	Samples Taken: SC	Turnaround Time (T		and the second data and the se		and the second se	able 🗌 Reside	ntial/	ax Exempt
3 Hour	6 Hour	24 Hour 48 Hou	r [	72 Hour		96 Hour	1 Week		2 Week
		call ahead to schedule.*There is a p ervice. Analysis completed in accor							
	PLM - Bulk (rep				arra a	<u>TEM –</u>	and shall be	1100	00000
PLM EF	PA 600/R-93/116 (<1%	b)	TE	M EPA NOB -	– EPA	600/R-93/1	16 Section 2.5.5	5.1	
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	t 🗌 400 (<0.25%) 🗌	the state of the second s		atfield Protoco					
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	AP Method 198.1 (mat AP Method 198.6 NOE			vi Qualitative	via Di	Op Mount P	rep Technique		Contraction of the second
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Relinquish	ed (Client).	- KAULT Dat	te: Š	1-25-1	17		Time:	10:	DAN Flx
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Comments Please utilize po BillTo: Apex Env	/Special Instructions sitive stop analysis. ironmental Management, 7 Winc	thester Court, Mauldin, SC, 29662, US Email: rshultz@apex-ehs.com Purchase Orde				•	7952 7822	3	693
		Page 1 of _2_			2				:

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EMSL ANALYTICAL, INC.

Page 2 Of

EMSL Analytical, Inc. 376 Crompton Street

Asbest	os	Bul	k E	Buildi	ng	Ma	terial	
	Ch	ain	of	Cust	ody	У		
FILOI	0	1			1			

EMSL Order Number (Lab Use Only):

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

### 411703311

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

Sample #	HA #	Sample Location	Material Description
5-8			Plaster w/finish over
5-9			unfinished dry wall
5-10		(no dryval	
5-11			
5-12			12×12 tan speckled F.
5-13			W/ mastic over 12 ×12 Brow
5-14	1000 an		streaked F.T. w/ mastic
5-15			white HUAC mastic
5-16			
5-17	1.1		
5-18			kitchen counter canlk
5-19			
5.20	1		
5-21			BathRom shower Starl
5.72			canky
5-23			
5-24			Black coating under
5-25			Kitchen sink
5-26			L
5-27			Interior window caulk
5-28			1
5-28	1		
lease utilize posi illTo: Apex Envir		tructions: nt, 7 Winchester Court, Mauldin, SC, 29662, US 404-3210 Email: rshultz@apex-ehs.com Purchase Ørder:	

Page \_ \_ of \_ pages

2

EMSL Order: 411703311 **EMSL** Analytical, Inc. Customer ID: AXEM25 376 Crompton Street Charlotte, NC 28273 MSI **Customer PO:** Tel/Fax: (704) 525-2205 / (704) 525-2382 Project ID: http://www.EMSL.com / charlottelab@emsl.com Attention: Nicholas Neerhof Phone: (864) 640-5274 Apex Environmental Management Fax: 7 Winchester Court Received Date: 04/27/2017 10:00 AM Mauldin, SC 29662 Analysis Date: 05/02/2017 - 05/03/2017 Collected Date: 04/25/2017 Project: Cammie Clagett Building #5

		Non-Asbes	stos	Asbestos
Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
Drywall & Joint Compound	Gray Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected
	Homogeneous			
Drywall & Joint Compound	Fibrous		30% Ca Carbonate 67% Non-fibrous (Other)	3% Chrysotile
	5			
Drywall & Joint Compound	Tan Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected
	Homogeneous			
Drywall & Joint Compound	Gray Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
Drywall & Joint Compound	homogonoodo			Positive Stop (Not Analyzed
Drywall & Joint Compound	Gray Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected
	Homogeneous			
Drywall & Joint Compound				Positive Stop (Not Analyzed
Drywall & Joint Compound	Gray Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected
	Homogeneous			
Drywall & Joint Compound				Positive Stop (Not Analyzed
Drywall & Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
Drywall & Joint Compound	Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected
Draval & Joint	•	5% Cellulose	95% Non fibrous (Other)	None Detected
Compound	Fibrous Homogeneous			
Drywall & Joint	White		40% Ca Carbonate	None Detected
Compound	Non-Fibrous Homogeneous		60% Non-fibrous (Other)	
Drywall & Joint Compound	Tan Fibrous	60% Glass	40% Non-fibrous (Other)	None Detected
	Drywall & Joint         Compound         Drywall & Joint         Compound <td>Drywall &amp; Joint CompoundGray Fibrous HomogeneousDrywall &amp; Joint CompoundBeige Fibrous HomogeneousDrywall &amp; Joint CompoundTan Fibrous HomogeneousDrywall &amp; Joint CompoundGray Fibrous HomogeneousDrywall &amp; Joint CompoundTan Fibrous HomogeneousDrywall &amp; Joint CompoundTan Fibrous HomogeneousDrywall &amp; Joint CompoundTan Fibrous HomogeneousDrywall &amp; Joint CompoundDrywall &amp; Joint Fibrous HomogeneousDrywall &amp; Joint CompoundWhite Non-Fibrous HomogeneousDrywall &amp; Joint CompoundWhite Non-Fibrous HomogeneousDrywall &amp; Joint CompoundWhite Non-Fibrous HomogeneousDrywall &amp; Joint CompoundWhite Non-Fibrous HomogeneousDrywall &amp; Joint CompoundWhite Non-Fibrous HomogeneousDrywall &amp; Joint CompoundWhite Non-Fibrous Homogeneous<td>DescriptionAppearance% FibrousDrywall &amp; Joint CompoundGray Fibrous Homogeneous8% Cellulose Fibrous HomogeneousDrywall &amp; Joint CompoundBeige Fibrous Homogeneous99% CelluloseDrywall &amp; Joint CompoundTan Fibrous Homogeneous99% CelluloseDrywall &amp; Joint CompoundGray Fibrous Homogeneous8% CelluloseDrywall &amp; Joint CompoundGray Fibrous Homogeneous8% CelluloseDrywall &amp; Joint CompoundGray Fibrous Homogeneous8% CelluloseDrywall &amp; Joint CompoundGray Fibrous Homogeneous8% CelluloseDrywall &amp; Joint CompoundGray Fibrous Homogeneous5% CelluloseDrywall &amp; Joint CompoundGray Fibrous Homogeneous5% CelluloseDrywall &amp; Joint CompoundGray Fibrous Homogeneous5% CelluloseDrywall &amp; Joint CompoundTan Fibrous Homogeneous99% CelluloseDrywall &amp; Joint CompoundTan Fibrous Homogeneous99% CelluloseDrywall &amp; Joint CompoundTan Fibrous Homogeneous99% CelluloseDrywall &amp; Joint CompoundTan Fibrous Homogeneous99% CelluloseDrywall &amp; Joint CompoundTan Homogeneous99% CelluloseDrywall &amp; Joint CompoundTan Homogeneous6% CelluloseDrywall &amp; Joint CompoundWhite Non-Fibrous Homogeneous5% CelluloseDrywall &amp; Joint CompoundWhite Non-Fibrous Homogeneous60% Cellulose<td>Drywall &amp; Joint Compound     Gray Fibrous Homogeneous     8% Cellulose     92% Non-fibrous (Other)       Drywall &amp; Joint Compound     Beige Fibrous Homogeneous     30% Ca Carbonate 67% Non-fibrous (Other)       Drywall &amp; Joint Compound     Tan Fibrous Homogeneous     99% Cellulose     1% Non-fibrous (Other)       Drywall &amp; Joint Compound     Gray Fibrous Homogeneous     8% Cellulose     92% Non-fibrous (Other)       Drywall &amp; Joint Compound     Gray Fibrous Homogeneous     8% Cellulose     92% Non-fibrous (Other)       Drywall &amp; Joint Compound     Gray Fibrous Homogeneous     8% Cellulose     92% Non-fibrous (Other)       Drywall &amp; Joint Compound     Gray Fibrous Homogeneous     8% Cellulose     92% Non-fibrous (Other)       Drywall &amp; Joint Compound     Gray Fibrous Homogeneous     5% Cellulose     95% Non-fibrous (Other)       Drywall &amp; Joint Compound     Gray Fibrous Homogeneous     5% Cellulose     95% Non-fibrous (Other)       Drywall &amp; Joint Compound     Tan Non-Fibrous Homogeneous     99% Cellulose     1% Non-fibrous (Other)       Drywall &amp; Joint Compound     Tan Fibrous Homogeneous     99% Cellulose     1% Non-fibrous (Other)       Drywall &amp; Joint Compound     Tan Brown/White Fibrous Homogeneous     5% Cellulose     95% Non-fibrous (Other)       Drywall &amp; Joint Compound     Brown/White Fibrous Homogeneous     5% Cellulose     95% Non-fibrous (Other)       Drywall &amp; Joint</td></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></td></td>	Drywall & Joint CompoundGray Fibrous HomogeneousDrywall & Joint CompoundBeige Fibrous HomogeneousDrywall & Joint CompoundTan Fibrous HomogeneousDrywall & Joint CompoundGray Fibrous HomogeneousDrywall & Joint CompoundTan Fibrous HomogeneousDrywall & Joint CompoundTan Fibrous HomogeneousDrywall & Joint CompoundTan Fibrous HomogeneousDrywall & Joint CompoundDrywall & Joint Fibrous HomogeneousDrywall & Joint CompoundWhite Non-Fibrous HomogeneousDrywall & Joint CompoundWhite Non-Fibrous HomogeneousDrywall & Joint CompoundWhite Non-Fibrous HomogeneousDrywall & Joint CompoundWhite Non-Fibrous HomogeneousDrywall & Joint CompoundWhite Non-Fibrous HomogeneousDrywall & Joint CompoundWhite Non-Fibrous Homogeneous <td>DescriptionAppearance% FibrousDrywall &amp; Joint CompoundGray Fibrous Homogeneous8% Cellulose Fibrous HomogeneousDrywall &amp; Joint CompoundBeige Fibrous Homogeneous99% CelluloseDrywall &amp; Joint CompoundTan Fibrous Homogeneous99% CelluloseDrywall &amp; Joint CompoundGray Fibrous Homogeneous8% CelluloseDrywall &amp; Joint CompoundGray Fibrous Homogeneous8% CelluloseDrywall &amp; Joint CompoundGray Fibrous Homogeneous8% CelluloseDrywall &amp; Joint CompoundGray Fibrous Homogeneous8% CelluloseDrywall &amp; Joint CompoundGray Fibrous Homogeneous5% CelluloseDrywall &amp; Joint CompoundGray Fibrous Homogeneous5% CelluloseDrywall &amp; Joint CompoundGray Fibrous Homogeneous5% CelluloseDrywall &amp; Joint CompoundTan Fibrous Homogeneous99% CelluloseDrywall &amp; Joint CompoundTan Fibrous Homogeneous99% CelluloseDrywall &amp; Joint CompoundTan Fibrous Homogeneous99% CelluloseDrywall &amp; Joint CompoundTan Fibrous Homogeneous99% CelluloseDrywall &amp; Joint CompoundTan Homogeneous99% CelluloseDrywall &amp; Joint CompoundTan Homogeneous6% CelluloseDrywall &amp; Joint CompoundWhite Non-Fibrous Homogeneous5% CelluloseDrywall &amp; Joint CompoundWhite Non-Fibrous Homogeneous60% Cellulose<td>Drywall &amp; Joint Compound     Gray Fibrous Homogeneous     8% Cellulose     92% Non-fibrous (Other)       Drywall &amp; Joint Compound     Beige Fibrous Homogeneous     30% Ca Carbonate 67% Non-fibrous (Other)       Drywall &amp; Joint Compound     Tan Fibrous Homogeneous     99% Cellulose     1% Non-fibrous (Other)       Drywall &amp; Joint Compound     Gray Fibrous Homogeneous     8% Cellulose     92% Non-fibrous (Other)       Drywall &amp; Joint Compound     Gray Fibrous Homogeneous     8% Cellulose     92% Non-fibrous (Other)       Drywall &amp; Joint Compound     Gray Fibrous Homogeneous     8% Cellulose     92% Non-fibrous (Other)       Drywall &amp; Joint Compound     Gray Fibrous Homogeneous     8% Cellulose     92% Non-fibrous (Other)       Drywall &amp; Joint Compound     Gray Fibrous Homogeneous     5% Cellulose     95% Non-fibrous (Other)       Drywall &amp; Joint Compound     Gray Fibrous Homogeneous     5% Cellulose     95% Non-fibrous (Other)       Drywall &amp; Joint Compound     Tan Non-Fibrous Homogeneous     99% Cellulose     1% Non-fibrous (Other)       Drywall &amp; Joint Compound     Tan Fibrous Homogeneous     99% Cellulose     1% Non-fibrous (Other)       Drywall &amp; Joint Compound     Tan Brown/White Fibrous Homogeneous     5% Cellulose     95% Non-fibrous (Other)       Drywall &amp; Joint Compound     Brown/White Fibrous Homogeneous     5% Cellulose     95% Non-fibrous (Other)       Drywall &amp; Joint</td></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></td>	DescriptionAppearance% FibrousDrywall & Joint CompoundGray Fibrous Homogeneous8% Cellulose Fibrous HomogeneousDrywall & Joint CompoundBeige 	Drywall & Joint Compound     Gray Fibrous Homogeneous     8% Cellulose     92% Non-fibrous (Other)       Drywall & Joint Compound     Beige Fibrous Homogeneous     30% Ca Carbonate 67% Non-fibrous (Other)       Drywall & Joint Compound     Tan Fibrous Homogeneous     99% Cellulose     1% Non-fibrous (Other)       Drywall & Joint Compound     Gray Fibrous Homogeneous     8% Cellulose     92% Non-fibrous (Other)       Drywall & Joint Compound     Gray Fibrous Homogeneous     8% Cellulose     92% Non-fibrous (Other)       Drywall & Joint Compound     Gray Fibrous Homogeneous     8% Cellulose     92% Non-fibrous (Other)       Drywall & Joint Compound     Gray Fibrous Homogeneous     8% Cellulose     92% Non-fibrous (Other)       Drywall & Joint Compound     Gray Fibrous Homogeneous     5% Cellulose     95% Non-fibrous (Other)       Drywall & Joint Compound     Gray Fibrous Homogeneous     5% Cellulose     95% Non-fibrous (Other)       Drywall & Joint Compound     Tan Non-Fibrous Homogeneous     99% Cellulose     1% Non-fibrous (Other)       Drywall & Joint Compound     Tan Fibrous Homogeneous     99% Cellulose     1% Non-fibrous (Other)       Drywall & Joint Compound     Tan Brown/White Fibrous Homogeneous     5% Cellulose     95% Non-fibrous (Other)       Drywall & Joint Compound     Brown/White Fibrous Homogeneous     5% Cellulose     95% Non-fibrous (Other)       Drywall & Joint



		<u>Asbestos</u>			
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
5-6-Drywall	Drywall & Joint Compound	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
	Dravell & Jaint	Homogeneous			
5-6-Beige Joint Compound	Drywall & Joint Compound				Positive Stop (Not Analyzed)
411703311-0006A					
5-6-Tape	Drywall & Joint Compound	Tan Fibrous	100% Cellulose		None Detected
411703311-0006B		Homogeneous			
5-7-Drywall	Drywall & Joint Compound	Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
	Drywall & Joint	Homogeneous			Positive Stop (Not Analyzed)
5-7-Beige Joint Compound	Compound				
411703311-0007A					
5-7-White Joint Compound	Drywall & Joint Compound	White Non-Fibrous		40% Ca Carbonate 58% Non-fibrous (Other)	2% Chrysotile
	composito	Homogeneous			
411703311-0007B					
5-8-Drywall	Plaster w/ Finish over Unfinished Drywall	Gray Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected
411703311-0008	Distance / Fisials	Homogeneous			New Peterlad
5-8-Skim Coat 411703311-0008A	Plaster w/ Finish over Unfinished Drywall	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
5-8-Rough Coat	Plaster w/ Finish over	Gray		35% Quartz	None Detected
411703311-0008B	Unfinished Drywall	Non-Fibrous Homogeneous		8% Ca Carbonate 57% Non-fibrous (Other)	
5-9-Drywall	Plaster w/ Finish over	Gray	8% Cellulose	92% Non-fibrous (Other)	None Detected
411703311-0009	Unfinished Drywall	Fibrous Homogeneous			
5-9-Skim Coat	Plaster w/ Finish over	White		10% Ca Carbonate	None Detected
411703311-0009A	Unfinished Drywall	Non-Fibrous Homogeneous		90% Non-fibrous (Other)	
5-9-Rough Coat	Plaster w/ Finish over	Gray		30% Quartz	None Detected
411703311-0009B	Unfinished Drywall	Non-Fibrous Homogeneous		8% Ca Carbonate 62% Non-fibrous (Other)	
5-10-Skim Coat	Plaster w/ Finish over	White		8% Ca Carbonate	None Detected
	Unfinished Drywall	Non-Fibrous		92% Non-fibrous (Other)	
411703311-0010 5-10-Rough Coat	Plaster w/ Finish over	Homogeneous Gray		30% Quartz	None Detected
411703311-0010A	Unfinished Drywall	Non-Fibrous Homogeneous		8% Ca Carbonate 62% Non-fibrous (Other)	
5-11-Drywall	Plaster w/ Finish over	Gray	8% Cellulose	92% Non-fibrous (Other)	None Detected
411703311-0011	Unfinished Drywall	Fibrous Homogeneous			None Deletieu
5-11-Skim Coat	Plaster w/ Finish over	White		8% Ca Carbonate	None Detected
411703311-0011A	Unfinished Drywall	Non-Fibrous		92% Non-fibrous (Other)	
	Plaster w/ Finish over	Homogeneous		25% Quartz	None Detected
5-11-Rough Coat	Unfinished Drywall	Gray Non-Fibrous		25% Quartz 8% Ca Carbonate	None Detected
411703311-0011B	· · · · · · · · · · · · · · · · · · ·	Homogeneous		67% Non-fibrous (Other)	



**EMSL** Analytical, Inc.

Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com

EMSL Order: 411703311 Customer ID: AXEM25 **Customer PO:** 

Project ID:

Sample	Description	Appoaranco	<u>Non-Asbes</u> % Fibrous	stos % Non-Fibrous	<u>Asbestos</u> % Type
5-12-Tan Floor Tile	Description 12x12 Tan Speckled	Appearance Tan	% FIDROUS	30% Ca Carbonate	None Detected
411703311-0012	F.T. w/ Mastic over 12x12 Brown Streaked F.T. w/ Mastic	Non-Fibrous Homogeneous		70% Non-fibrous (Other)	
5-12-Mastic 411703311-0012A	12x12 Tan Speckled F.T. w/ Mastic over 12x12 Brown Streaked F.T. w/ Mastic	Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
5-12-Brown Floor Tile 411703311-0012B	12x12 Tan Speckled F.T. w/ Mastic over 12x12 Brown Streaked F.T. w/ Mastic	Brown Fibrous Homogeneous		30% Ca Carbonate 66% Non-fibrous (Other)	4% Chrysotile
5-12-Mastic 411703311-0012C	12x12 Tan Speckled F.T. w/ Mastic over 12x12 Brown Streaked F.T. w/ Mastic	Black Non-Fibrous Homogeneous	2% Cellulose	94% Non-fibrous (Other)	4% Chrysotile
5-13-Tan Floor Tile 411703311-0013	12x12 Tan Speckled F.T. w/ Mastic over 12x12 Brown Streaked F.T. w/ Mastic	Tan Non-Fibrous Homogeneous		35% Ca Carbonate 65% Non-fibrous (Other)	None Detected
5-13-Mastic 411703311-0013A	12x12 Tan Speckled F.T. w/ Mastic over 12x12 Brown Streaked F.T. w/ Mastic	Tan Non-Fibrous Homogeneous	2% Cellulose	5% Ca Carbonate 93% Non-fibrous (Other)	None Detected
5-13-Brown Floor Tile	12x12 Tan Speckled F.T. w/ Mastic over 12x12 Brown Streaked F.T. w/ Mastic				Positive Stop (Not Analyzed)
5-13-Mastic	12x12 Tan Speckled F.T. w/ Mastic over 12x12 Brown Streaked F.T. w/ Mastic				Positive Stop (Not Analyzed)
5-15	White HVAC Mastic	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
5-16	White HVAC Mastic	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
5-18	Kitchen Counter Caulk	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
5-19	Kitchen Counter Caulk	White Non-Fibrous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
5-21	Bathroom Shower Stall Caulk	Homogeneous White Non-Fibrous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
411703311-0018 5-22	Bathroom Shower Stall Caulk	Homogeneous White Non-Fibrous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
411703311-0019		Homogeneous			



		Non-Asbestos			Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
5-24	Black Coating under Kitchen Sink	Black Fibrous		8% Ca Carbonate 89% Non-fibrous (Other)	3% Chrysotile	
411703311-0020		Homogeneous				
5-25	Black Coating under Kitchen Sink				Positive Stop (Not Analyzed)	
411703311-0021						
5-27	Interior Window Caulk	White Non-Fibrous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected	
411703311-0022		Homogeneous				
5-28	Interior Window Caulk	White		8% Ca Carbonate	None Detected	
411703311-0023		Non-Fibrous Homogeneous		92% Non-fibrous (Other)		

Analyst(s)

Anupriya Tyagi (28) Lyterra Barrow (13)

Evan L Plumber

Lee Plumley, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. 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. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

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

Initial report from: 05/03/2017 11:01:45

**EMSL Analytical, Inc.** 376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382

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

EMSL Order: 411703311 Customer ID: AXEM25 Customer PO: Project ID:

Attention: Nicholas Neerhof	Phone: (864) 640-5274
Apex Environmental Management	Fax:
7 Winchester Court	Received Date: 04/27/2017 10:00 AM
Mauldin, SC 29662	Analysis Date: 05/08/2017
	Collected Date: 04/25/2017

Project: Cammie Clagett Building #5

#### 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
5-14-Tan Floor Tile 411703311-0024	12x12 Tan Speckled F.T. w/ Mastic over 12x12 Brown Streaked F.T. w/ Mastic	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
5-14-Mastic 411703311-0025	12x12 Tan Speckled F.T. w/ Mastic over 12x12 Brown Streaked F.T. w/ Mastic	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
5-17 411703311-0026	White HVAC Mastic	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
5-20 411703311-0027	Kitchen Counter Caulk	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
5-23 411703311-0028	Bathroom Shower Stall Caulk	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
5-29 411703311-0029	Interior Window Caulk	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected

Analyst(s)

Derrick Young (6)

Evan L Plumley

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: 05/08/2017 15:50:59

ASB\_PLMEPANOB\_0012\_0002 Printed 5/8/2017 3:51:06PM

OrderID: 021707767

FMEL		Asbestos Cha				EMSL Analy 376 Crompt	
EMSL ANALYTICAL, INC.		EMSL Order Number (Lab Use Only):				Charlotte, NC 28273 PHONE: (704) 525-2205	
						· · · · (	704) 525-2382
Company Name : Apex Enviro	onment	al Management	EMSL Custo	omer ID:			
Street: 7 Winchester Court			City: Mauldin State/Province: SC			e: SC	
Zip/Postal Code: 29662		Country: US	Telephone #: 864-404-3210 Fax #:				
Report To (Name): Tom Oliver			Please Provide Results: 🗌 Fax 🕑 Email				
Email Address: toliverp	apex	-ehs. com	Purchase O	rder:			
Project Name/Number: Car			EMSL Proje				
U.S. State Samples Taken:	MSL-Bi	Il to: Same Different		t note instruction	ns in Comm		ential/Tax Exempt
		Third Party Billing requires wr Turnaround Time (TAT				/	
3 Hour 6 Hour		24 Hour 48 Hour	72 Ho		96 Hour	1 Week	2 Week
*For TEM Air 3 hr through 6 hr, pleas	se call ah	ead to schedule.*There is a premiu	m charge for 3 Ho	ur TEM AHER	A or EPA Le	evel II TAT. You wi	Il be asked to sign an
PCM - Air Check if samples		Analysis completed in accordance			-	in the Analytical Pr	ice Guide.
from NY		TEM – Air 4-4.5hr TAT	and a second	TEM-Dus			
NIOSH 7400		AHERA 40 CFR, Part 7	63		ac - ASTN		
w/ OSHA 8hr. TWA		NIOSH 7402		Wipe - ASTM D6480			(407)
PLM - Bulk (reporting limit) PLM EPA 600/R-93/116 (<19	2/ )	EPA Level II		Carpet Sonication (EPA 600/J-93/167)			
PLM EPA 800/R-93/116 (<1)	/0)	ISO 10312 TEM - Bulk		Soil/Rock/Vermiculite PLM EPA 600/R-93/116 with milling prep (<1%)			
Point Count		TEM EPA NOB			PLM EPA 600/R-93/116 with milling prep (<1/8)		
400 (<0.25%) 1000 (<0.1	%)	NYS NOB 198.4 (non-friable-NY)		TEM EPA 600/R-93/116 with milling prep (<0.1%)			
Point Count w/Gravimetric	Chatfield SOP			Qualitative via Filtration Prep			
400 (<0.25%) 1000 (<0.1	%)	TEM Mass Analysis-EP/	A 600 sec. 2.5			via Drop Mount I	
NYS 198.1 (friable in NY)		TEM - Water: EPA 100.2		(BC only)	ati metho	00 EPA 600/R-04	/004 – PLM/TEM
NYS 198.6 NOB (non-friable-NY)		Fibers >10µm Waste Drinking		Other:			
NYS 198.8 SOF-V NIOSH 9002 (<1%)		All Fiber Sizes Waste Drinking			ten e		
Check For Positive Stop -	Clearly	Identify Homogenous Grou	up Filter	Pore Size (A	Air Samp	oles): 0.8µm	n0.45µm
Samplers Name: Tom	Dive	-	Samplers	Signature:	L	l	
Sample #		Sample Descript	tion			e/Area (Air) # (Bulk)	Date/Time Sampled
5-392008					PLI		
5-39 AUAL tape n/ mastic			TRIFIC		1	t	
70 97					1	-	
-41		L			TE	m	
San San San San						13	1
Client Sample # (s):	39-	44 1	48 - 5	9	Total # c	of Samples:	18
Relinquished (Client):	R	Date	17 1	4-17		Time:	-
Received (Lab):	1	Date	101	17		Time:	9Am
Comments/Special Instruction	ns:	OF.		7978	418		
		Page 1 of	1				

Controlled Document - Asbestos COC - R10 - 05/09/2016

EMSL	Asbestos Chain of Custody EMSL Order Number (Lab Use Only):			
EN EMSL ANALYTICAL, INC.	(7767)			

EMSL Analytical, Inc. 376 Crompton Street

Charlotte, NC 28273 PHONE: FAX: (704) 525-2205 (704) 525-2382

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled			
5-42	Rout dawning shingles (3) &	PLM				
1 43	felt (1)					
44		TEM				
45	Sample #'s not Used					
46						
47						
48	Awning & Flashing Caulk	PLM				
. 49		1	No.			
50		TEM				
51	Roof gable vent cault	PLM				
52			1. 9. 9. 9. 10.			
53		TEM	ALL STREAM			
54	Painted metal pipe-vent pipes	PLM				
55						
56		-				
50	Black & gray mastic on roof	plm				
58	Black & gray massic on root genetrations	1				
- 59		TEM				
*Comments/Special Instructions:						
			a sanda k			
	Page 7 of 2 pages					

Controlled Document - Asbestos COC - R10 - 05/09/2016

**EMSL Analytical, Inc.** 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com

Apex Environmental Management

7 Winchester Court

Mauldin, SC 29662

Project: Cammie Clagett Bldg. 5

MSL

Attention: Tom Oliver

EMSL Order: 021707767 Customer ID: AXEM25 Customer PO: Project ID:

 Phone:
 (864) 640-5274

 Fax:
 Fax:

 Received Date:
 12/06/2017 9:00 AM

 Analysis Date:
 12/11/2017 - 12/12/2017

 Collected Date:
 12/04/2017

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

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
5-39-Tape	HVAC Tape/ Mastic	Gray/Silver Fibrous	30% Cellulose	70% Non-fibrous (Other)	None Detected
021707767-0001 5-39-Mastic	HVAC Tape/ Mastic	Homogeneous Tan	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707767-0001A		Non-Fibrous Homogeneous			
5-40-Tape	HVAC Tape/ Mastic	Gray/Tan/Silver Fibrous	45% Cellulose	55% Non-fibrous (Other)	None Detected
021707767-0002		Heterogeneous			
5-40-Mastic	HVAC Tape/ Mastic	Tan/Yellow Non-Fibrous	3% Cellulose	97% Non-fibrous (Other)	None Detected
021707767-0002A		Homogeneous			
5-42-Shingle 1	Roof/ Awning Shingles/Felt	Brown/Red/Black Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
021707767-0004		Homogeneous			N =
5-42-Shingle 2	Roof/ Awning Shingles/Felt	Brown/Red/Black Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
021707767-0004A	Destitution	Homogeneous	00/ 01		News Data 1
5-42-Shingle 3	Roof/ Awning Shingles/Felt	Black/Green Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
021707767-0004B		Homogeneous			
5-42-Felt	Roof/ Awning Shingles/Felt	Black Fibrous	65% Cellulose	35% Non-fibrous (Other)	None Detected
021707767-0004C		Homogeneous			
5-43-Shingle 1	Roof/ Awning Shingles/Felt	Brown/Black/Orang e Fibrous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
021101101-0003		Heterogeneous			
5-43-Shingle 2	Roof/ Awning Shingles/Felt	Brown/Orange Fibrous	<1% Cellulose 8% Glass	92% Non-fibrous (Other)	None Detected
021707767-0005A	0	Heterogeneous			
5-43-Shingle 3	Roof/ Awning Shingles/Felt	Tan/Black/Green Fibrous	<1% Cellulose 8% Glass	92% Non-fibrous (Other)	None Detected
021707767-0005B		Heterogeneous			
5-43-Felt	Roof/ Awning Shingles/Felt	Black Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected
021707767-0005C		Homogeneous			
5-48	Awning/Flashing Caulk	Gray/Beige Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707767-0007		Homogeneous			
5-49	Awning/Flashing Caulk	Gray/Tan Non-Fibrous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707767-0008		Homogeneous			
5-51	Roof Goble Vent Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707767-0010		Homogeneous			
5-52	Roof Goble Vent Caulk	Tan/Beige Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707767-0011		Homogeneous			

Initial report from: 12/12/2017 09:56:44



			Non-A	sbestos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
5-54 021707767-0013	Painted Metal Pipe- Vent Pipes	Gray/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
	B	0			
5-55	Painted Metal Pipe- Vent Pipes	Gray/Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707767-0014		Homogeneous			
5-56	Painted Metal Pipe- Vent Pipes	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707767-0015		Homogeneous			
5-57	Black/Gray Mastic on Roof Penetrations	Gray/Black Fibrous		98% Non-fibrous (Other)	2% Chrysotile
021707767-0016		Homogeneous			
5-58	Black/Gray Mastic on Roof Penetrations				Positive Stop (Not Analyzed)
001707707 0017					

021707767-0017

Analyst(s)

Kristie Elliott (11) Scott Combs (9)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. 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. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 12/12/2017 09:56:44

EMSL

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com EMSL Order: 021707767 Customer ID: AXEM25 Customer PO: Project ID:

Attention: Tom Oliver Apex Environmental Management 7 Winchester Court Mauldin, SC 29662 
 Phone:
 (864) 640-5274

 Fax:
 Fax:

 Received Date:
 12/06/2017
 9:00 AM

 Analysis Date:
 12/11/2017

 Collected Date:
 12/04/2017

Project: Cammie Clagett Bldg. 5

### 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
5-41-Tape	HVAC Tape/ Mastic	Silver	100	None	No Asbestos Detected
021707767-0003		Non-Fibrous			
		Homogeneous			
5-41-Mastic	HVAC Tape/ Mastic	Tan	100	None	No Asbestos Detected
021707767-0003A		Fibrous			
		Heterogeneous			
5-44-Shingle 1	Roof/ Awning Shingles/Felt	Red/Black	100	None	No Asbestos Detected
021707767-0006		Fibrous			
		Heterogeneous			
5-44-Shingle 2	Roof/ Awning Shingles/Felt	Brown/Tan/Red	100	None	No Asbestos Detected
021707767-0006A		Fibrous			
		Heterogeneous			
5-44-Shingle 3	Roof/ Awning Shingles/Felt	Black	100	None	No Asbestos Detected
021707767-0006B		Fibrous			
		Heterogeneous			
5-44-Felt	Roof/ Awning Shingles/Felt	Black	100	None	No Asbestos Detected
021707767-0006C		Fibrous			
		Homogeneous			
5-50	Awning/Flashing Caulk	Beige	100	None	No Asbestos Detected
021707767-0009		Non-Fibrous			
		Homogeneous			
5-53	Roof Goble Vent Caulk	Beige	100	None	No Asbestos Detected
021707767-0012		Non-Fibrous			
		Homogeneous			
5-59	Black/Gray Mastic on Roof				
021707767-0018	Penetrations				

Positive Stop (Not Analyzed)

Analyst(s)

Stephen Bennett (8)

Stephen Bennett, 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. Kernersville, NC

Initial report from: 12/11/2017 17:16:26

EMS

EMSL ANALYTICAL, INC.

Page 1 Of

EMSL Analytical, Inc.	
376 Crompton Street	

3

Asbestos Bulk	<b>Building Material</b>
Chain c	of Custody

EMSL Order Number (Lab Use Only):

411703368

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

		L		-						_	
Company	Apex E	nvironmental	Management				MSL-Bill to: Ill to is Different				
Street: 7 V	Vincheste	er Court				Third Party I	Billing requires	s written aut	horization	from th	ird party
City: Maul			State/Province: SC		Zip/Po	stal Code:	29662	Cou	intry: US	3	
Report To	(Name):	Nicholas Nee	rhof		Teleph	one #: 864	4-404-3210	)			
and the second se	and a first state of the state	eerhof@ape		6	Fax #:			Pur	chase O	rder	
Project Na	me/Numl	ber: Camm	e clagett Build. 7	₽		Provide F		Fax 🗸		Ma	and the second se
U.S. State	Samples	Taken: SC	Turnaround Time				Commercia	l/Taxable		dentia	I/Tax Exemp
☐ 3 Hour		6 Hour	24 Hour 48 H		the second s	72 Hour	96 Ho	our	1 Week		2 Week
*For TEM Ai	r 3 hr throu	gh 6 hr, please ca	all ahead to schedule.*There is rice. Analysis completed in ac	a pre	mium char	ge for 3 Hou	TEM AHERA	or EPA Leve	I II TAT.	ou will	be asked to sign
ana		- Bulk (repo			ince with E	WOLS TEITIS		EM – Bulk	ule Analyt		e Guide.
PLM EP	Antonitation	93/116 (<1%)			TEM E	PA NOB -	- EPA 600/R		ection 2.	5.5.1	2
		maintain march the site of the	, , , , , , , , , , , , , , , , , , ,	1	NYEL	AP Metho	d 198.4 (TEN	M)			na sa na na nahana
Point Coun	t 🗌 400	(<0.25%) 🗌 1	000 (<0.1%)		Chatfi	eld Protoco	ol (semi-quar	ntitative)			
Point Coun	t w/Gravir	metric 🗌 400	(<0.25%) 🗌 1000 (<0.1%	)	TEM 9	6 by Mass	- EPA 600/F	R-93/116 S	Section 2	5.5.2	
NIOSH	9002 (<1	%)			TEM	Qualitative	via Filtration	Prep Tech	nnique		
		d 198.1 (friable			TEM C	Qualitative	via Drop Mo		echnique	•	
and the second s		and a second of the second second second second second	non-friable-NY)		P. De State			Other	-		
	ID-191 M	n Method	a an	.   [							
				·						-	
Check F	For Posit	ive Stop – Cle	arly Identify Homogeno	us G	roup	Date Samp	pled: 4-	-26-1	1,		.///
Samplers I	Name:	Ted.	Shult2		Sam	plers Sigr	nature:	2nda	k	10	the
		11		-				-			9
Sample #	HA #	<u> 1919 - 1925</u>	Sample Location	1		Anethia		Materia	al Descri	ption	le ville
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6-1 6-2 6-3 6-4											
6-5											
6-6							a ser a ser	1			
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Client Sam	ple # (s):		1.	4	4		Tota	I # of Sam	nles.		
Relinquishe			killet .	Date	4 -=	7-16		in in or Gall	Time:	n	oon
Deschurd (I	able	61 10	D								
Please utilize pos BillTo: Apex Envi	Special I sitive stop ana ronmental Ma	nagement, 7 Winches	ster Court, Mauldin, SC, 29662, US ail: rshultz@apex-ehs.com Purchase	Date:	9/2	<b>P</b> [17		79	Time:		5 6126
									Deserved in		
			Page 1 of		anes						

OrderID: 41	11	70	33	68
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EMSL ANALYTICAL, INC.

Page 2 Of

EMSL Analytical, Inc. 376 Crompton Street

Asbestos B	ulk E	Building	g Materia	1
Chai	n of	Custo	yk	

EMSL Order Number (Lab Use Only):

# 411703368

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

b-8 b-9 b-10 b-11 b-11 b-12 b-13 b-14 b-14 b-14 b-14 b-15 b-15 b-18 b-17 b-18 b-18 b-18 b-19		Plaster up finish over
6-9 6-10 6-11 6-12 6-13 6-13 6-13 6-13 6-14 6-15 6-15 6-17 6-18 6-18 6-19		FINS CO FINS OUL
6-10 6-11 6-12 6-13 6-13 6-13 6-14 6-15 6-15 6-17 6-18 6-18 6-19		unfinished diquall
6 - 11 6 - 12 6 - 13 6 - 13 6 - 14 6 - 15 6 - 15 6 - 15 6 - 17 6 - 18 6 - 18 6 - 19	(no day	
6-12 6-13 6-14 6-14 6-15 6-15 6-17 6-18 6-18 6-19	(	
6-13 6-14 6-15 6-15 6-17 6-18 6-19 6-19	(Top	layer 12 ×12 tan speckled
6-14 6-15 6-18 6-19		F.T. w/ mastic /
6-15 6-16 6-17 6-18 6-19		
6-18 6-19 6-19	Bottom	layer) 12×12 cream F.T.
6-18 6-19		w/ mastic /
6-19		
6-19	e-eenenaa ka kuuna l	Kitchen counter
1 20		caulk white
6-20		
6-21		HVAC Caulk
6-22		/
6-23	ning this way prove the	
6.24		Bath pm shower stall
6-25		& sink rawk 1
6-26		
6-27		Kitchen sink under cat
6-28		Black 1
6-29		
*Commonte/Engels		2
*Comments/Special Instructions: Please utilize positive stop analysis. BillTo: Apex Environmental Management, 7 Winchester Con Attention: Rebecca Shultz Phone: 864-404-3210 Email: rsh		

Page 2 of 3 pages

411703368		Page 3 Of	EMSL Analytical, Inc.
		Asbestos Bulk Building Mat Chain of Custody EMSL Order Number (Lab Use Or 411703368 he Chain of Custody are only necessary if needed for a	Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382
Sample # HA #		Sample Location	Material Description
6-30			window canlk BlK
6-31			,
6-32			
6-33			kitchen sink undercoat white ]
6-34			white
635			<u> </u>
		Par and an and the second	
			and the second
Please utilize pos BillTo: Apex Envi	sitive stop analysis ronmental Manag	nstructions: 	

3 of 3 pages Page\_

3

EMSL Order: 411703368 **EMSL** Analytical, Inc. Customer ID: AXEM25 376 Crompton Street Charlotte, NC 28273 IMSL **Customer PO:** Tel/Fax: (704) 525-2205 / (704) 525-2382 Project ID: http://www.EMSL.com / charlottelab@emsl.com Attention: Nicholas Neerhof Phone: (864) 640-5274 Apex Environmental Management Fax: 7 Winchester Court Received Date: 04/28/2017 11:00 AM Mauldin, SC 29662 Analysis Date: 05/04/2017 Collected Date: 04/26/2017 Project: Cammie Clagett Building #6

		stos	Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
6-1-Drywall	Drywall & Joint Compound	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
411703368-0001		Homogeneous			
6-1-White Joint	Drywall & Joint	White		35% Ca Carbonate	None Detected
Compound	Compound	Fibrous Homogeneous		65% Non-fibrous (Other)	
411703368-0001A		Tiomogeneous			
6-1-Tan Joint	Drywall & Joint	Tan		30% Ca Carbonate	2% Chrysotile
Compound	Compound	Fibrous		68% Non-fibrous (Other)	
411703368-0001B		Homogeneous			
6-2-Drywall	Drywall & Joint	Brown/Gray	10% Cellulose	90% Non-fibrous (Other)	None Detected
J-2-Diywali	Compound	Fibrous			None Detected
411703368-0002	·	Homogeneous			
Sample bag labeled 6-4					
6-2-Tan Joint	Drywall & Joint				Positive Stop (Not Analyzed)
Compound	Compound				
111703368-0002A					
6-3-Drywall	Drywall & Joint	Brown/Gray	10% Cellulose	90% Non-fibrous (Other)	None Detected
,	Compound	Fibrous			
11703368-0003		Homogeneous			
S-3-Tan Joint	Drywall & Joint				Positive Stop (Not Analyzed)
Compound	Compound				
411703368-0003A					
6-4-Drywall	Drywall & Joint	Brown/Gray	10% Cellulose	90% Non-fibrous (Other)	None Detected
	Compound	Fibrous			
111703368-0004		Homogeneous			
6-4-Tan Joint	Drywall & Joint				Positive Stop (Not Analyzed)
Compound	Compound				
411703368-0004A					
6-4-Tape	Drywall & Joint	Tan	99% Cellulose	1% Non-fibrous (Other)	None Detected
	Compound	Fibrous			
411703368-0004B		Homogeneous			
6-5-Drywall	Drywall & Joint Compound	Brown/Gray	8% Cellulose	92% Non-fibrous (Other)	None Detected
411703368-0005	Compound	Fibrous Homogeneous			
6-5-Tan Joint	Drywall & Joint	<u> </u>			Positive Stop (Not Analyzed)
Compound	Compound				
-					
11703368-0005A		-	4000/ 0		
6-5-Tape	Drywall & Joint Compound	Tan Fibrous	100% Cellulose		None Detected
411703368-0005B	Compound	Homogeneous			
6-6-Drywall	Drywall & Joint	Brown/Gray	5% Cellulose	95% Non-fibrous (Other)	None Detected
	Compound	Fibrous			
411703368-0006		Homogeneous			



			Non-Asbe	stos	<u>Asbestos</u> % Type	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous		
6-6-White Joint Compound	Drywall & Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected	
411703368-0006A						
6-6-Таре 411703368-0006В	Drywall & Joint Compound	Tan Fibrous	100% Cellulose		None Detected	
	Dravell 8 Joint	Homogeneous	8% Cellulose	02% Non fibrous (Other)	None Detected	
6-7-Drywall	Drywall & Joint Compound	Brown/Gray Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Delected	
6-7-White Joint	Drywall & Joint	White		50% Ca Carbonate	None Detected	
Compound	Compound	Non-Fibrous Homogeneous		50% Non-fibrous (Other)		
411703368-0007A						
6-7-Tape	Drywall & Joint Compound	Tan Fibrous	100% Cellulose		None Detected	
411703368-0007B		Homogeneous				
6-8-Skim Coat	Plaster w/ Finish over Unfinished Drywall	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected	
6-8-Rough Coat	Plaster w/ Finish over	Gray		20% Quartz	None Detected	
411703368-0008A	Unfinished Drywall	Non-Fibrous Homogeneous		5% Ca Carbonate 75% Non-fibrous (Other)	None Delected	
6-8-Drywall	Plaster w/ Finish over	Brown/Gray	10% Cellulose	90% Non-fibrous (Other)	None Detected	
411703368-0008B	Unfinished Drywall	Fibrous Homogeneous				
6-9-Skim Coat	Plaster w/ Finish over	White		5% Ca Carbonate	None Detected	
411703368-0009	Unfinished Drywall	Non-Fibrous Homogeneous		95% Non-fibrous (Other)		
6-9-Rough Coat	Plaster w/ Finish over Unfinished Drywall	Gray Non-Fibrous		20% Quartz 5% Ca Carbonate	None Detected	
411703368-0009A		Homogeneous		75% Non-fibrous (Other)		
6-9-Drywall	Plaster w/ Finish over Unfinished Drywall	Brown/Gray Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected	
411703368-0009B		Homogeneous				
6-10-Skim Coat	Plaster w/ Finish over Unfinished Drywall	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected	
6-10-Rough Coat	Plaster w/ Finish over	Gray		50% Quartz	None Detected	
411703368-0010A	Unfinished Drywall	Non-Fibrous Homogeneous		50% Non-fibrous (Other)		
6-11-Skim Coat	Plaster w/ Finish over Unfinished Drywall	White Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected	
411703368-0011	•	Homogeneous		· · ·		
6-11-Rough Coat	Plaster w/ Finish over Unfinished Drywall	Gray Non-Fibrous	<1% Cellulose	50% Quartz 50% Non-fibrous (Other)	None Detected	
411703368-0011A		Homogeneous				
6-11-Drywall	Plaster w/ Finish over Unfinished Drywall	Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected	
411703368-0011B		Homogeneous				
6-12-Floor Tile	12x12 Tan Speckled F.T. w/ Mastic (Top	Tan Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected	
411703368-0012 6-12-Mastic	Layer) 12x12 Tan Speckled	Homogeneous Tan	1% Cellulose	5% Ca Carbonate	None Detected	
411703368-0012A	F.T. w/ Mastic (Top Layer)	Fibrous Homogeneous		94% Non-fibrous (Other)		



			Non-Asbe	Non-Asbestos		
Sample	Description	Appearance % Fibrous		% Non-Fibrous	<u>Asbestos</u> % Type	
6-13-Floor Tile	12x12 Tan Speckled F.T. w/ Mastic (Top Layer)	Tan/White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected	
6-13-Mastic	12x12 Tan Speckled F.T. w/ Mastic (Top	Tan Non-Fibrous	2% Cellulose	8% Gypsum 90% Non-fibrous (Other)	None Detected	
411703368-0013A 6-15-Floor Tile	Layer) 12x12 Cream F.T. w/ Mastic (Bottom Layer)	Homogeneous Beige Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected	
11703368-0014	Mastie (Bottom Edyer)	Homogeneous				
i-15-Mastic	12x12 Cream F.T. w/ Mastic (Bottom Layer)	Black Fibrous		94% Non-fibrous (Other)	6% Chrysotile	
11703368-0014A		Homogeneous				
5-16-Floor Tile	12x12 Cream F.T. w/ Mastic (Bottom Layer)	White Non-Fibrous Homogeneous		35% Ca Carbonate 65% Non-fibrous (Other)	None Detected	
	12x12 Cream F.T. w/	Homogeneous			Desitive Step (Net Applyzed)	
5-16-Mastic	Mastic (Bottom Layer)				Positive Stop (Not Analyzed)	
6-18	Kitchen Counter Caulk - White	White Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected	
411703368-0016		Homogeneous				
5-19 #11703368-0017	Kitchen Counter Caulk - White	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
6-21	HVAC Caulk	White Non-Fibrous		100% Non-fibrous (Other)	None Detected	
11703368-0018		Homogeneous				
5-22	HVAC Caulk	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
11703368-0019		Homogeneous				
)-24	Bathroom Shower Stall & Sink Caulk	White Non-Fibrous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected	
6-25	Bathroom Shower	Homogeneous White		20% Ca Carbonate	None Detected	
11703368-0021	Stall & Sink Caulk	Non-Fibrous Homogeneous		80% Non-fibrous (Other)	None Delected	
<u>)</u> -27	Kitchen Sink Undercoat - Black	Black Fibrous		35% Ca Carbonate 60% Non-fibrous (Other)	5% Chrysotile	
11703368-0022		Homogeneous				
5-28	Kitchen Sink Undercoat - Black				Positive Stop (Not Analyzed)	
11703368-0023	Mindow On the Direct	\A/bita		5º/ Co Corborato	Nono Datastad	
i-30 11703368-0024	Window Caulk - Black	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected	
-31	Window Caulk - Black	White Non-Fibrous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected	
11703368-0025		Homogeneous				
5-33	Kitchen Sink Undercoat - White	White Fibrous	5% Cellulose	5% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
11703368-0026		Homogeneous				
6-34	Kitchen Sink Undercoat - White	White Non-Fibrous	10% Cellulose	5% Ca Carbonate 5% Mica	None Detected	
0-36 0-36		Homogeneous Gray/Tan	3% Glass	80% Non-fibrous (Other) 97% Non-fibrous (Other)	None Detected	
		Fibrous	570 01855		None Delected	
411703368-0028		Homogeneous				



			Non-Ast	Asbestos		
Sample	Description	Appearance	ppearance % Fibrous % Non-Fibrous		% Туре	
6-37		Gray/Tan Non-Fibrous Homogeneous	5% Glass	8% Ca Carbonate 87% Non-fibrous (Other)	None Detected	
6-39 411703368-0030		Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
6-40 411703368-0031		Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected	
6-42 411703368-0032		Gray Fibrous Homogeneous	15% Glass	15% Quartz 5% Ca Carbonate 65% Non-fibrous (Other)	None Detected	
6-43 411703368-0033		Gray Fibrous Homogeneous	4% Glass	15% Quartz 81% Non-fibrous (Other)	None Detected	

Analyst(s)

Aaron Hartley (26) Lacy Searcy (24)

Evan L Plumber

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: 05/05/2017 08:05:19

EMSL Analytical, Inc.

376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com EMSL Order: 411703368 Customer ID: AXEM25 Customer PO: Project ID:

Attention:	Nicholas Neerhof
	Apex Environmental Management
	7 Winchester Court
	Mauldin, SC 29662

 Phone:
 (864) 640-5274

 Fax:
 640-5274

 Received Date:
 04/28/2017 11:00 AM

 Analysis Date:
 05/10/2017

 Collected Date:
 04/26/2017

Project: Cammie Clagett Building #6

### 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
6-14-Floor Tile 411703368-0034	12x12 Tan Speckled F.T. w/ Mastic (Top Layer)	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
6-14-Mastic 411703368-0035	12x12 Tan Speckled F.T. w/ Mastic (Top Layer)	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
6-17-Floor Tile 411703368-0036	12x12 Cream F.T. w/ Mastic (Bottom Layer)	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
6-20 411703368-0037	Kitchen Counter Caulk - White	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
6-23 411703368-0038	HVAC Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
6-26 411703368-0039	Bathroom Shower Stall & Sink Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
6-32 411703368-0040	Window Caulk - Black	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
6-35 411703368-0041	Kitchen Sink Undercoat - White	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
6-38 411703368-0042	Door Frames - Grey Door Caulk	Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
6-41 <i>411703368-0043</i>	Window Casings - Black Window Caulk	Black Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
6-44 411703368-0044	Exterior Brick Penetrations - Grey Penetration Mastic	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected

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Samples analyzed by EMSL Analytical, Inc. Charlotte, NC

Initial report from: 05/10/2017 15:18:20

ASB\_PLMEPANOB\_0012\_0002 Printed 5/10/2017 3:18:24PM

MSL	EMSL Analytical, Inc. 376 Crompton Street Charlotte, NC 28273 Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:	Nicholas Neerhof	Phone:	(864) 640-5274
	Apex Environmental Management	Fax:	
	7 Winchester Court	Received Date:	04/28/2017 11:00 AM
	Mauldin, SC 29662	Analysis Date:	05/10/2017
		Collected Date:	
Project:	Cammie Clagett Building #6		

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types

Analyst(s)

Derrick Young (11)

Even L. Plumber

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: 05/10/2017 15:18:20

EMSL Analytical, Inc. 376 Crompton Street

Asbestos	Chain	of	Custody
<b>EMSL</b> Orde	r Numb	er (	Lab Use Only):

EMSL ANALYTICAL, INC.

EMSI

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

Company Name : Apex Environmental Management		EMSL Customer ID:				
Street: 7 Winchester Court		City: Mauld	in	State/Provin	nce: SC	
Zip/Postal Code: 29662	Country: US	Telephone #	: 864-404-3210	Fax #:		
Report To (Name): 16m Olio	er	Please Provide Results: 🗌 Fax 🗹 Email				
Email Address: to liverpape.	x-ehs.com	Purchase O	rder:			
Project Name/Number: Cammie C	lagott Blog 6	EMSL Proje	ct ID (Internal Use C			
U.S. State Samples Taken: SC	-	CT Samples: Commercial/Taxable Residential/Tax Exempt				
EMSL-B	ill to: Same Different - Third Party Billing requires writ			ments**		
	Turnaround Time (TAT)			1		
3 Hour 6 Hour	24 Hour 48 Hour	72 Ho				
*For TEM Air 3 hr through 6 hr, please call an authorization form for this service.	Analysis completed in accordance	n charge for 3 Ho with EMSL's Terr	ur TEM AHERA or EPA ns and Conditions locate	Level II TAT. You ed in the Analytical	will be asked to sign an Price Guide.	
PCM - Air Check if samples are from NY	TEM – Air 4-4.5hr TAT (	AHERA only)	TEM- Dust			
NIOSH 7400	AHERA 40 CFR, Part 76	3	Microvac - ASTM D 5755			
w/ OSHA 8hr. TWA			Wipe - ASTM D		and a state of the state of the	
PLM_Bulk (reporting limit) EPA Level II			Carpet Sonicat		93/167)	
PLM EPA 600/R-93/116 (<1%)			Soil/Rock/Vermic			
PLM EPA NOB (<1%)	TEM - Bulk		PLM EPA 600/	R-93/116 with m	nilling prep (<1%)	
Point Count	TEM EPA NOB		PLM EPA 600/	R-93/116 with m	nilling prep (<0.25%)	
400 (<0.25%) 1000 (<0.1%)	NYS NOB 198.4 (non-friable-NY)		TEM EPA 600/	R-93/116 with n	nilling prep (<0.1%)	
Point Count w/Gravimetric	Chatfield SOP		TEM Qualitativ			
400 (<0.25%) 1000 (<0.1%)	TEM Mass Analysis-EPA 600 sec. 2.5		TEM Qualitative via Drop Mount Prep Cincinnati Method EPA 600/R-04/004 – PLM/TEM			
NYS 198.1 (friable in NY)			(BC only)			
NYS 198.6 NOB (non-friable-NY)	Fibers >10µm Waste [	Drinking	Other:			
NYS 198.8 SOF-V	All Fiber Sizes Waste	Drinking				
NIOSH 9002 (<1%)						
Check For Positive Stop – Clearly	Identify Homogenous Grou	p Filter	Pore Size (Air Sam	ples): 0.8	μm0.45μm	
Samplers Name: Tom Oliv	ve/	Samplers	Signature:	t		
Sample #	Sample Descripti	on		me/Area (Air) A # (Bulk)	Date/Time Sampled	
6-45 HUA	L take of most	tic	PL	m	STRANG STR	
146	1	1.1.2.5.2.5		Television of		
47		1.	TE	5		
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		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -		
				13	1	
Client Sample # (s): 45-5	0 4	54-65	Total #	of Samples:	//8	
Relinquished (Client):	Date:	-12-4-1	17 1	Time		
Received (Lab):	Date	12/6		Time	9 Am	
Comments/Special Instructions:	((	ett.	795279-	RUIR2		
	Page 1 of	2-	10.511	01102		

Controlled Document - Asbestos COC - R10 - 05/09/2016



EMSL Analytical, Inc. 376 Crompton Street

Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
Loof + awning shingles (3) +	PLM	
felt (1)	1	
	TEM	
Sample #'s not used		
	a de la contra de la	
Awning & flashing Calle	plm	
	TEM	
Root geble vent calle	play	
-	1	
<u>_</u>	TEn	Cherry Start
Printed metal pipe - vent pipes	ping	
1	1	
Black & gray master on root	PLM	
penetrations 1		
1	TEM	
structions:		
Dec. 7 . 7	S. D. Balancia	
	footdowning shingles (3) d felt (1) Sample #'s not used	Sample Description HA#(Bulk) forf & awning shinges (3) & PLM felt (1) Sample #'s not used Awning & flashing calle Awning & flashing calle Awning & flashing calle I TEM Reat gale vent celle I TEM Painted metal pipe - vent pipes Painted metal pipe - vent pipes Black & gray mester on soot penetrations I TEM

Controlled Document - Asbestos COC - R10 - 05/09/2016

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com

Apex Environmental Management

EMSL Order: 021707766 Customer ID: AXEM25 Customer PO: Project ID:

Project: Cammie Clagett Bldg. 6

7 Winchester Court

Mauldin, SC 29662

Attention: Tom Oliver

			Asbestos			
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
6-45-Tape	HVAC Tape/Mastic	Silver Fibrous	40% Cellulose	60% Non-fibrous (Other)	None Detected	
021707766-0001		Homogeneous				
6-45-Mastic	HVAC Tape/Mastic	Tan Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected	
021707766-0001A		Homogeneous				
6-46-Tape	HVAC Tape/Mastic	Gray/Tan/Silver Fibrous	45% Cellulose	55% Non-fibrous (Other)	None Detected	
021707766-0002		Heterogeneous				
6-46-Mastic	HVAC Tape/Mastic	Tan Non-Fibrous	2% Cellulose	98% Non-fibrous (Other)	None Detected	
021707766-0002A		Homogeneous				
6-48-Shingle 1	Roof/ Awning Shingles/Felt	Brown/Black/Orang e	8% Glass	92% Non-fibrous (Other)	None Detected	
021707766-0004		Fibrous Homogeneous				
6-48-Shingle 2	Roof/ Awning Shingles/Felt	Brown/Black/Orang e	8% Glass	92% Non-fibrous (Other)	None Detected	
021707766-0004A		Fibrous Homogeneous				
6-48-Shingle 3	Roof/ Awning Shingles/Felt	Brown/Black/Orang e	8% Glass	92% Non-fibrous (Other)	None Detected	
021707766-0004B	<b>3 1 1</b>	Fibrous Homogeneous				
6-48-Felt	Roof/ Awning Shingles/Felt	Black Fibrous	65% Cellulose	35% Non-fibrous (Other)	None Detected	
021707766-0004C	ennigiee/r en	Homogeneous				
6-49-Shingle 1	Roof/ Awning Shingles/Felt	Brown/Black/Orang e	<1% Cellulose 8% Glass	92% Non-fibrous (Other)	None Detected	
021707766-0005	oningioon en	Fibrous Heterogeneous	070 01000			
6-49-Shingle 2	Roof/ Awning Shingles/Felt	Brown/Black/Orang e	8% Glass	92% Non-fibrous (Other)	None Detected	
021707766-0005A	oningiosi eit	Fibrous Heterogeneous				
6-49-Shingle 3	Roof/ Awning	Gray/Black/Green	<1% Cellulose	95% Non-fibrous (Other)	None Detected	
021707766-0005B	Shingles/Felt	Fibrous Heterogeneous	5% Glass			
6-49-Felt	Roof/ Awning	Black	70% Cellulose	30% Non-fibrous (Other)	None Detected	
021707766-0005C	Shingles/Felt	Fibrous Homogeneous				
	Auming /Flacking				None Detected	
6-54 021707766-0007	Awning/Flashing Caulk	Beige Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
	Accession of the last	Homogeneous			New Dife 1	
6-55	Awning/Flashing Caulk	Tan/Beige Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
021707766-0008		Homogeneous				



			Non-Asbe	Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
6-57-Gray Caulk	Roof Goble Vent Caulk	Gray Non-Fibrous Homogeneous	1% Glass	10% Ca Carbonate 89% Non-fibrous (Other)	None Detected
6-57-Beige Caulk	Roof Goble Vent Caulk	Beige Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
6-58-Gray Caulk	Roof Goble Vent Caulk	Gray Non-Fibrous Homogeneous	<1% Glass	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
6-58-Beige Caulk 021707766-0011A	Roof Goble Vent Caulk	Beige Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
6-60 021707766-0013	Painted Metal Pipe- Vent Pipes	Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6-61 021707766-0014	Painted Metal Pipe- Vent Pipes	Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6-62 021707766-0015	Painted Metal Pipe- Vent Pipes	Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6-63 021707766-0016	Black/Gray Mastic on Roof Pentrations	Gray/Black Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
6-64 021707766-0017	Black/Gray Mastic on Roof Pentrations	-			Positive Stop (Not Analyzed)

Analyst(s)

Kristie Elliott (12) Scott Combs (10)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 12/12/2017 09:54:32

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com

EMSL Order: 021707766 Customer ID: AXEM25 **Customer PO:** Project ID:

Phone: (864) 640-5274 Apex Environmental Management Fax: **Received Date:** 12/06/2017 9:00 AM Analysis Date: 12/11/2017 Collected Date: 12/04/2017

Project: Cammie Clagett Bldg. 6

7 Winchester Court

Mauldin, SC 29662

Attention: Tom Oliver

### 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
6-47-Tape 021707766-0003	HVAC Tape/Mastic	Gray Non-Fibrous	100	None	No Asbestos Detecteo
		Homogeneous			
6-47-Mastic	HVAC Tape/Mastic	Tan	100	None	No Asbestos Detected
021707766-0003A		Fibrous			
		Heterogeneous			
6-50-Shingle 1	Roof/ Awning Shingles/Felt	Brown/Tan/Red	100	None	No Asbestos Detected
021707766-0006		Fibrous			
		Heterogeneous			
6-50-Shingle 2	Roof/ Awning Shingles/Felt	Brown/Tan/Red	100	None	No Asbestos Detected
021707766-0006A		Fibrous			
		Heterogeneous			
6-50-Shingle 3	Roof/ Awning Shingles/Felt	Black	100	None	No Asbestos Detected
021707766-0006B		Fibrous			
		Heterogeneous			
6-50-Felt	Roof/ Awning Shingles/Felt	Black	100	None	No Asbestos Detected
021707766-0006C	0 0	Fibrous			
		Homogeneous			
6-56	Awning/Flashing Caulk	Gray/Beige	100	None	No Asbestos Detected
021707766-0009	· ·······	Non-Fibrous			
		Heterogeneous			
6-59-Grey Caulk	Roof Goble Vent Caulk	Gray	100	None	No Asbestos Detected
021707766-0012		Non-Fibrous			
		Homogeneous			
6-59-Beige Caulk	Roof Goble Vent Caulk	Beige	100	None	No Asbestos Detected
021707766-0012A		Non-Fibrous	100		
		Homogeneous			
6-65	Black/Gray Mastic on Roof	Ŭ			
021707766-0018	Pentrations				

Positive Stop (Not Analyzed)

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 12/11/2017 17:46:00

IMSL	EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:		Phone:	(864) 640-5274
	Apex Environmental Management	Fax:	
	7 Winchester Court	Received Date:	12/06/2017 9:00 AM
	Mauldin, SC 29662	Analysis Date:	12/11/2017
		Collected Date:	12/04/2017
Project:	Cammie Clagett Bldg. 6		
Te	st Report: Asbestos Analysis of Non-Friable Org EPA/600/R-93/116 Section	-	oy TEM via

Sample ID Description Appearance % Matrix Material % Non-Asbestos Fibers Asbestos Types	Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
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Analyst(s)

Stephen Bennett (9)

Barnett tom

Stephen Bennett, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 12/11/2017 17:46:00

Page 1 Of

EMSL Analytical, Inc. 376 Crompton Street

01 1 11 110 00070
Charlotte, NC 28273
PHONE: (704) 525-

		Asbestos Cha	in of Cus	vhot		376 Crom	pton Street
EMSL		EMSL Order Nur					
V-	Г						NC 28273
EMSL ANALYTICAL, INC.		( ,	169	/		PHONE:	(704) 525-2205
DABORATORITERODUCISTINALINIO	- Charles		-			FAX:	(704) 525-2382
Company Name : Apex B		tal Management	EMSL Custo				
Street: 7 Winchester Co			City: Mauld	in		State/Provin	ce: SC
Zip/Postal Code: 29662		Country: US	Telephone #	<b>t:</b> 864-404-3	210	Fax #:	-
Report To (Name): 10,			Please Prov	ide Results:	🗌 Fax	Email	
Email Address: tolive			Purchase O	rder:			
Project Name/Number:	Commie	Clasett Blog 36	EMSL Proje				
U.S. State Samples Take		ill to: Same Different -		t note instruction	s in Comme		dential/Tax Exempt
		Third Party Billing requires wri Turnaround Time (TAT)					
	Hour [	24 Hour 48 Hour	2 72 Ho	ur 🗌 9	6 Hour	1 Week	2 Week
*For TEM Air 3 hr through 6 hi authorization form 1		ead to schedule.*There is a premiu Analysis completed in accordance					
PCM - Air Check if sar	nples are	TEM – Air 4-4.5hr TAT		TEM- Dust			
NIOSH 7400		AHERA 40 CFR, Part 76	63	Microva	c - ASTM	D 5755	
w/ OSHA 8hr. TWA		NIOSH 7402			ASTM D6		
PLM - Bulk (reporting lim	iit)	EPA Level II		Carpet Sonication (EPA 600/J-93/167)			
PLM EPA 600/R-93/116	6 (<1%)	SO 10312		Soil/Rock/Vermiculite			
PLM EPA NOB (<1%)		TEM - Bulk					illing prep (<1%)
Point Count		TEM EPA NOB					illing prep (<0.25%)
400 (<0.25%) 1000 Point Count w/Gravimetric		NYS NOB 198.4 (non-fria	adie-INY)	Protocology (		via Filtration Pr	illing prep (<0.1%)
400 (<0.25%) 1000		TEM Mass Analysis-EPA	600 sec. 2.5			ia Drop Moun	
NYS 198.1 (friable in N		TEM - Water: EPA 100.2			ati Methoo	d EPA 600/R-0	04/004 - PLM/TEM
NYS 198.6 NOB (non-1		Fibers >10µm Waste	Drinking	(BC only) Other:			
NYS 198.8 SOF-V		All Fiber Sizes Waste					
NIOSH 9002 (<1%)							
Check For Positive St	op – Clearly	Identify Homogenous Grou	p Filter	Pore Size (A	ir Sampl	les): 0.8µ	m 0.45µm
- · · T.	6			0	1	# :	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Samplers Name:	sm Oli	ver	Samplers	Signature:	Volum	e/Area (Air)	Date/Time
Sample #		Sample Descript	ion			# (Bulk)	Sampled
10=36-1	Drywol	1 m/ Joint con	npard	t	PLI	m	
1 7	tope						
3							
4							
- 5						- u	./
Client Sample # (s):		-45 +	49-66		Total # o	f Samples:	63
Relinquished (Client):	2	Date	17 11	12		Time:	
Received (Lab):	14	Date	1.10	7		Time:	0
Comments/Special Instru	actions:	Date				Time:	
			3 EFX	795:	379	78416	
			4				

Page 1 of \_\_\_\_ pages

Controlled Document - Asbestos COC - R10 - 05/09/2016

Page 2 Of

EMSL Analytical, Inc. 376 Crompton Street

4

EMSL	Asbestos Chain of Custody	376 Crompton Street
EN EMSL ANALYTICAL, INC.	EMSL Order Number (Lab Use Only):	Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
6-6	Drynch of Joint compand of	PLM	
1 1	tope		- Salar
8	Plaster of finish over unfinished	plm	
9	drywon		
10			
11			
12			
- 13	12"x12" tonspeckled floor tile +	PLM	-
14	mastic (top layer)	L	
15		PLM	
16	HVAL tape & mastic	PLM	
17		T	
18		TEM	
19	Kitchen Counter Caulk	ping	
26			1.0
21		TEM	
22	Bothroom Sink Caulk	pm	1. Same 1
23			
24		PLM	1.2.196
25	Black Sink cooring HVAC	pln	
26	Cark	-	1 
26		FEM PLM T.O.	

Page 2 of 4 pages

EMS

ANALYTICAL

Page 3 Of

EMSL Analytical, Inc. 376 Crompton Street

Aspestos Chain of Custody EMSL Order Number (Lab Use Only):
(7769)

Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
6-28	Black Sink Coating	PLM	
29		L	
30	_	TEM	
31	Shower Stall Caulk	pins	
32		1	
33	1	TEM	
34	Interior window Calk-white	pln	
. 35	had	1	
36		TEM	in the second
37	Black sink pad	PLM	
38		1	New York
39		TEM	
40	Interior mindow calk - Soft	pen	
41	1 white		
42		TEM	
43	Roof & Owning Shineles (2) 2	TEM	
44	Poof & Owning Shingles (2) & felt (1)	1	
45		TEM	A PROPERTY
46	Sample His not used		
47			
48		and the second second	
		1 and a	
	nstructions:		

Page 3 of 4 pages

OrderID: 021707769

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EMSL Analytical, Inc. 376 Crompton Street

Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

9

Charlotte, NC 28273 PHONE: FAX:

(704) 525-2205 (704) 525-2382 4

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
36-49	Awaing (flaching Cally	PLM	
50		L	
51		TEM	1.2.2.4
52	Blax window Calk	PLM	
53		<u> </u>	
54		TEM	
55	Extensor door call	pen	
. 56	)	1	
51		TEM	
58	Roof gable vent call	PLM	
59		1	
60	-	TEM	
61	Metal pointed pipe - vent pipes	PLM	
62		1	
63	L	TEM	
64	Black & gray mostil on roof penetrations	pens	1.1
4 65	penetrations	1	
1 66		TEM	
			<u></u>
			Shets The
Ser Contraction			
10 1 10 1 11			
*Comments/Special I			
	- 11 - 14		

Page 4 of 4 pages

Controlled Document - Asbestos COC - R10 - 05/09/2016

**EMSL** Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 EMSL **Customer PO:** Tel/Fax: (336) 992-1025 / (336) 992-4175 Project ID: http://www.EMSL.com / greensborolab@emsl.com Attention: Tom Oliver Apex Environmental Management 7 Winchester Court

EMSL Order: 021707769 Customer ID: AXEM25

(864) 640-5274		
12/06/2017 9:00 AM		
12/10/2017 - 12/11/2017		
12/04/2017		

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

			Non-Asbe	stos	Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
36-1-Drywall	Drywall/Joint Compound/Tape	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected	
021707769-0001		Heterogeneous				
36-1-Joint Compound	Drywall/Joint Compound/Tape	Gray/Beige Fibrous	3% Cellulose	25% Ca Carbonate 69% Non-fibrous (Other)	3% Chrysotile	
021707769-0001A		Homogeneous				
36-1-Tape	Drywall/Joint Compound/Tape	Beige Fibrous	100% Cellulose		None Detected	
021707769-0001B		Homogeneous				
36-2-Drywall	Drywall/Joint Compound/Tape	Brown/Gray Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected	
021707769-0002		Heterogeneous				
36-2-Joint Compound	Drywall/Joint Compound/Tape				Positive Stop (Not Analyzed	
021707769-0002A	Dnwall/ loint	Beige	100% Cellulose		None Detected	
36-2-Tape 021707769-0002B	Drywall/Joint Compound/Tape	Beige Fibrous	T00% Cellulose		None Detected	
	Dancell/Laint	Homogeneous	00% 0 - 11-1		New Detect	
36-3-Drywall	Drywall/Joint Compound/Tape	Brown/Gray Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected	
	Dancell/Leint	Helelogeneous				
36-3-Joint Compound	Drywall/Joint Compound/Tape				Positive Stop (Not Analyzed	
	Drawell/Jaint	Drewer /Orew	15% Callulana	05% Non fibratio (Other)	Nana Detected	
36-4-Drywall	Drywall/Joint Compound/Tape	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected	
		Helelogeneous				
36-4-Joint Compound	Drywall/Joint Compound/Tape				Positive Stop (Not Analyzed	
021707769-0004A			4594 0 11 1			
36-5-Drywall	Drywall/Joint Compound/Tape	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected	
021707769-0005		Heterogeneous				
36-5-Joint Compound	Drywall/Joint Compound/Tape				Positive Stop (Not Analyzed	
021707769-0005A	Drauell/1-int	Drewer / Care	450/ 0-11-1		News Datastad	
36-6-Drywall	Drywall/Joint Compound/Tape	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected	
021707769-0006		Heterogeneous				
36-6-Joint Compound	Drywall/Joint Compound/Tape				Positive Stop (Not Analyzed	
021707769-0006A						
36-7-Drywall	Drywall/Joint Compound/Tape	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected	
021707769-0007		Heterogeneous				
36-7-Joint Compound	Drywall/Joint Compound/Tape				Positive Stop (Not Analyzed	
021707769-0007A						

Initial report from: 12/11/2017 14:54:39

Mauldin, SC 29662

Project: Cammie Clagett Bldg. 36



**EMSL** Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com EMSL Order: 021707769 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

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
36-8-Skim Coat	Plaster w/ Finish Over Unfinished Drywall	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
36-8-Rough Coat	Plaster w/ Finish Over Unfinished Drywall	Gray/Tan Non-Fibrous	1% Cellulose	30% Quartz 69% Non-fibrous (Other)	None Detected
021707769-0008A 36-8-Drywall	Plaster w/ Finish Over	Heterogeneous Brown/Gray	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707769-0008B	Unfinished Drywall	Fibrous Heterogeneous			
36-9-Texture	Plaster w/ Finish Over Unfinished Drywall	White/Beige Non-Fibrous	<1% Cellulose	30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
021707769-0009		Homogeneous			
36-9-Skim Coat 021707769-0009A	Plaster w/ Finish Over Unfinished Drywall	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
36-9-Rough Coat	Plaster w/ Finish Over	Gray	1% Cellulose	30% Quartz	None Detected
021707769-0009B	Unfinished Drywall	Non-Fibrous Heterogeneous		69% Non-fibrous (Other)	
36-9-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707769-0009C		Heterogeneous			
36-10-Skim Coat	Plaster w/ Finish Over Unfinished Drywall	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707769-0010	Plaster w/ Finish Over	Homogeneous	1% Cellulose	30% Quartz	None Detected
36-10-Rough Coat	Unfinished Drywall	Gray/Tan Non-Fibrous Heterogeneous	1% Cellulose	30% Quartz 69% Non-fibrous (Other)	None Detected
36-10-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous	25% Cellulose	75% Non-fibrous (Other)	None Detected
021707769-0010B		Heterogeneous			
36-11-Skim Coat	Plaster w/ Finish Over Unfinished Drywall	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707769-0011	Diastan/ Einish Owen	Homogeneous	10/ Callulana	200/ Ouert-	News Datastad
36-11-Rough Coat	Plaster w/ Finish Over Unfinished Drywall	Gray/Tan Non-Fibrous Heterogeneous	1% Cellulose	30% Quartz 69% Non-fibrous (Other)	None Detected
36-11-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
021707769-0011B	,	Heterogeneous			
36-12-Skim Coat	Plaster w/ Finish Over Unfinished Drywall	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707769-0012	DI ( )	Homogeneous		200% C	
36-12-Rough Coat	Plaster w/ Finish Over Unfinished Drywall	Gray/Tan Non-Fibrous Heterogeneous		30% Quartz 1% Mica 69% Non-fibrous (Other)	None Detected
36-12-Drywall	Plaster w/ Finish Over	Brown/Gray	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707769-0012B	Unfinished Drywall	Fibrous Heterogeneous			
36-13-Floor Tile	12x12 Tan Speckled Floor Tile/Mastic	Tan/Beige Non-Fibrous		25% Quartz 75% Non-fibrous (Other)	None Detected
021707769-0013		Homogeneous			
36-13-Mastic	12x12 Tan Speckled Floor Tile/Mastic	Yellow Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707769-0013A 36-14-Floor Tile	12x12 Tan Speckled	Homogeneous Tan/Beige		25% Quartz 75% Non fibrous (Other)	None Detected
021707769-0014	Floor Tile/Mastic	Non-Fibrous Homogeneous		75% Non-fibrous (Other)	

Initial report from: 12/11/2017 14:54:39



		Non-Asbestos			
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
36-14-Mastic	12x12 Tan Speckled Floor Tile/Mastic	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
36-16-Tape	HVAC Tape/Mastic	Tan/Silver Fibrous	60% Cellulose	40% Non-fibrous (Other)	None Detected
86-16-Mastic	HVAC Tape/Mastic	Yellow	1% Cellulose	99% Non-fibrous (Other)	None Detected
21707769-0016A		Non-Fibrous Homogeneous			
6-17-Tape	HVAC Tape/Mastic	Tan/Silver Fibrous	60% Cellulose	40% Non-fibrous (Other)	None Detected
21707769-0017		Homogeneous			
36-17-Mastic	HVAC Tape/Mastic	Yellow Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707769-0017A		Homogeneous			
36-19 021707769-0019	Kitchen Counter Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36-20	Kitchen Counter	White	<1% Cellulose	10% Ca Carbonate	None Detected
021707769-0020	Caulk	Non-Fibrous Homogeneous		90% Non-fibrous (Other)	
36-22	Bathroom Sink Coat	White/Beige		100% Non-fibrous (Other)	None Detected
21707769-0022		Non-Fibrous Homogeneous			
6-23	Bathroom Sink Coat	White/Beige Non-Fibrous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
21707769-0023		Homogeneous			
36-25	HVAC Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707769-0025		Homogeneous			
36-26	HVAC Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
36-28	Black Sink Coating	Homogeneous Black	<1% Cellulose	98% Non-fibrous (Other)	2% Chrysotile
21707769-0028	Black Slifk Coaling	Fibrous Homogeneous		36 % NON-HOLOUS (Other)	
36-29	Black Sink Coating				Positive Stop (Not Analyzed)
21707769-0029					
36-31	Shower Stall Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
21707769-0031		Homogeneous			
86-32	Shower Stall Caulk	Beige Non-Fibrous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
21707769-0032		Homogeneous			
6-34	Interior Window Caulk- White Hard	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
21707769-0034	Later March 1	Homogeneous	.40/ 0 " '		New Diff. 1
86-35 21707769-0035	Interior Window Caulk- White Hard	White Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
	Black Sink Pad	Black	<1% Cellulose	100% Non-fibrous (Other)	None Detected
36-37	DIACK SILIK MAU	Non-Fibrous			NOTE Delected
021707769-0037 36-38	Black Sink Pad	Homogeneous Black	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707769-0038		Non-Fibrous			
521101103-0030		Homogeneous			



			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
36-40 021707769-0040	Interior Window Caulk-Soft White	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36-41	Interior Window Caulk-Soft White	White Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707769-0041 36-43-Shingle 1	Roof/Awning	Homogeneous Brown/Black/Orang	<1% Cellulose	95% Non-fibrous (Other)	None Detected
021707769-0043	Shingles/Felt	e Fibrous Heterogeneous	5% Glass		
36-43-Shingle 2	Roof/Awning Shingles/Felt	Gray/Black Fibrous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
021707769-0043A		Heterogeneous			
36-43-Felt	Roof/Awning Shingles/Felt	Black Fibrous	80% Cellulose	20% Non-fibrous (Other)	None Detected
021707769-0043B		Homogeneous			
36-44-Shingle 1 021707769-0044	Roof/Awning Shingles/Felt	Brown/Black/Orang e Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
		Heterogeneous			
36-44-Shingle 2	Roof/Awning Shingles/Felt	Gray/Black Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
021707769-0044A		Heterogeneous			
36-44-Felt	Roof/Awning Shingles/Felt	Black Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected
021707769-0044B		Homogeneous			
36-49	Awning/Flashing Caulk	Beige Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707769-0046		Homogeneous			
36-50 021707769-0047	Awning/Flashing Caulk	Beige Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
	Black Window Caulk			100% Non fibrous (Other)	None Detected
36-52 021707769-0049	Black Window Caulk	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Delected
36-53	Black Window Caulk	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707769-0050		Homogeneous			
36-55	Exterior Door Caulk	Gray/Tan/White Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707769-0052		Heterogeneous			
36-56	Exterior Door Caulk	Gray/Tan/White Non-Fibrous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707769-0053		Homogeneous			
36-58	Roof Gable Vent Caulk	Beige Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707769-0055		Homogeneous			
36-59	Roof Gable Vent Caulk	White Non-Fibrous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707769-0056	Marci D. 1 A. 101	Homogeneous			New Diff. 1
36-61	Metal Painted Pipe- Vent Pipes	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707769-0058		Homogeneous			
36-62	Metal Painted Pipe- Vent Pipes	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707769-0059		Homogeneous			



		Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
36-64	Black/Gray Mastic on	Black	10% Cellulose	90% Non-fibrous (Other)	None Detected
	Roof Penetrations	Fibrous			
021707769-0061		Homogeneous			
36-65	Black/Gray Mastic on	Black	10% Cellulose	90% Non-fibrous (Other)	None Detected
	Roof Penetrations	Fibrous			
021707769-0062		Homogeneous			

Analyst(s)

Nicole Shutts (24) Scott Combs (43)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. 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. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 12/11/2017 14:54:39

EMSL

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com EMSL Order: 021707769 Customer ID: AXEM25 Customer PO: Project ID:

 Attention:
 Tom Oliver

 Apex Environmental Management
 7 Winchester Court

 7 Winchester Court
 Re

 Mauldin, SC 29662
 Ar

 Phone:
 (864) 640-5274

 Fax:
 Fax:

 Received Date:
 12/06/2017
 9:00 AM

 Analysis Date:
 12/11/2017

 Collected Date:
 12/04/2017

Project: Cammie Clagett Bldg. 36

### 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
36-15-Floor Tile 021707769-0015	12x12 Tan Speckled Floor Tile/Mastic	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
36-15-Mastic 021707769-0015A	12x12 Tan Speckled Floor Tile/Mastic	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
36-18-Tape 021707769-0018	HVAC Tape/Mastic	Gray Fibrous Heterogeneous	100	None	No Asbestos Detected
36-18-Mastic 021707769-0018A	HVAC Tape/Mastic	Tan Fibrous Heterogeneous	100	None	No Asbestos Detected
36-21 021707769-0021	Kitchen Counter Caulk	White Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
36-24 021707769-0024	Bathroom Sink Coat	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
36-27 021707769-0027	HVAC Caulk	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
36-30 021707769-0030	Black Sink Coating				
Positive	Stop (Not Analyzed)				
36-33 <i>021707769-0033</i>	Shower Stall Caulk	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
36-36 021707769-0036	Interior Window Caulk- White Hard	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
36-39 021707769-0039	Black Sink Pad	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
36-42 021707769-0042	Interior Window Caulk-Soft White	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected

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

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 12/11/2017 11:28:39

EMSL 7

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com EMSL Order: 021707769 Customer ID: AXEM25 Customer PO: Project ID:

 Attention:
 Tom Oliver
 Phone:
 (864) 640-5274

 Apex Environmental Management
 Fax:
 Fax:
 7

 7 Winchester Court
 Received Date:
 12/06/2017
 9:00 AM

 Mauldin, SC 29662
 Analysis Date:
 12/11/2017

 Collected Date:
 12/04/2017

Project: Cammie Clagett Bldg. 36

## 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
36-45-Shingle 1 021707769-0045	Roof/Awning Shingles/Felt	Brown/Red/Black Fibrous	100	None	No Asbestos Detected
		Heterogeneous			
36-45-Shingle 2	Roof/Awning Shingles/Felt	Black	100	None	No Asbestos Detected
021707769-0045A		Fibrous			
		Heterogeneous			
36-45- Felt	Roof/Awning Shingles/Felt	Black	100	None	No Asbestos Detected
021707769-0045B		Fibrous			
		Homogeneous			
36-51	Awning/Flashing Caulk	Gray	100	None	No Asbestos Detected
021707769-0048		Non-Fibrous			
		Heterogeneous			
36-54	Black Window Caulk	Black	100	None	No Asbestos Detected
021707769-0051		Non-Fibrous			
		Homogeneous			
36-57	Exterior Door Caulk	Gray/Pink	100	None	No Asbestos Detected
021707769-0054		Non-Fibrous			
		Heterogeneous			
36-60	Roof Gable Vent Caulk	Beige	100	None	No Asbestos Detected
021707769-0057		Non-Fibrous			
		Heterogeneous			
36-63	Metal Painted Pipe- Vent	Gray	100	None	No Asbestos Detected
021707769-0060	Pipes	Non-Fibrous			
		Homogeneous			
36-66	Black/Gray Mastic on Roof	Black	100	None	No Asbestos Detected
021707769-0063	Penetrations	Non-Fibrous			
		Homogeneous			

Analyst(s)

Stephen Bennett (20)

Stephen Bennett, 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. Kernersville, NC

Initial report from: 12/11/2017 11:28:39

ID: 021707768	Page 1 (	Df			
	Ashastas Cha	in of Cus	tody		llytical, Inc. oton Street
EMSL ANALYTICAL, INC. LABORATORY PRODUCTS TRAINING	Asbestos Chain of Custody EMSL Order Number (Lab Use Only): 7768 M25				NC 28273 (704) 525-2205 (704) 525-2382
					() 011 1001
Company Name : Apex Environmen	tal Management	EMSL Custo			
Street: 7 Winchester Court		City: Mauldi		State/Provin	ce: SC
Zip/Postal Code: 29662	Country: US	Telephone #	:864-404-3210	Fax #:	
Report To (Name): 100 Olive	r	Please Provi	ide Results: 🔲 F	ax 🗹 Email	
Email Address: toliver Dapex Project Name/Number: Cammie U.S. State Samples Taken: 56		rder: ct ID ( <i>Internal Use</i> 0 :		dential/Tax Exempt	
	ill to: Same Different - Third Party Billing requires wri			ments**	
□ 3 Hour       □ 6 Hour         *For TEM Air 3 hr through 6 hr, please call at authorization form for this service.         PCM - Air       □ Check if samples are from NY         □ NIOSH 7400         □ w/ OSHA 8hr. TWA         PLM - Bulk (reporting limit)         □ PLM EPA 600/R-93/116 (<1%)	Turnaround Time (TAT)         24 Hour       48 Hour         head to schedule.*There is a premiu         Analysis completed in accordance         TEM - Air       4-4.5hr TAT         AHERA 40 CFR, Part 76         NIOSH 7402         EPA Level II         ISO 10312         TEM - Bulk         TEM - Bulk         NYS NOB 198.4 (non-friation of the second of t	Options* – PI 72 Hou m charge for 3 Hou with EMSL's Term (AHERA only)	ease Check ur 96 Hour ur TEM AHERA or EPA ns and Conditions locat TEM- Dust Microvac - AST Wipe - ASTM I Carpet Sonicat Soil/Rock/Vermic PLM EPA 600/ PLM EPA 600/ TEM EPA 600/	Level II TAT. You v ed in the Analytical I TM D 5755 D6480 cion (EPA 600/J-9 <u>culite</u> R-93/116 with m 'R-93/116 with m 'R-93/116 with m	93/167) 93/167) illing prep (<1%) illing prep (<0.25%) illing prep (<0.1%)
Point Count w/Gravimetric 400 (<0.25%) 1000 (<0.1%) NYS 198.1 (friable in NY) NYS 198.6 NOB (non-friable-NY) NYS 198.8 SOF-V NIOSH 9002 (<1%)	LChatfield SOP TEM Mass Analysis-EPA TEM – Water: EPA 100.2 Fibers >10µm Waste All Fiber Sizes Waste	Drinking	TEM Qualitativ Cincinnati Metl (BC only) Other:		t Prep )4/004 – PLM/TEM
Check For Positive Stop – Clearly		p   Filter	Pore Size (Air Sam	nples): 0.8µ	m0.45µm
Samplers Name: 10m 01	ive	Samplers	Signature:	2	
Sample #	Sample Descript	ion		me/Area (Air) A # (Bulk)	Date/Time Sampled
37-1 Dryu 1 2 tone	ull of joint co	mond	2 P	im	
3					a was in starting
4					
_ 5					35,
Client Sample # (s):	1-9	47	Total #	of Samples:	47 47
Relinquished (Client):	Date	: 12-4-	12	Time:	
Received (Lab):	Date	1.101	17	Time:	0
Comments/Special Instructions:	Be.	Fx 795	537978	4161	

Page 1 of \_\_\_\_\_\_ pages

Controlled Document - Asbestos COC - R10 - 05/09/2016

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Page 2 Of

		EMSL Analytical, Inc.
EMSL	Asbestos Chain of Custody EMSL Order Number (Lab Use Only):	376 Crompton Street
EN EMSL ANALYTICAL, INC.	(7768)	Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
31- 6	Pryould Plaster of Finish over	PLM	
1 7	unfinished dynam		
8			
9	Kitchen counter calle	Plan	
10		1	
11		TEm	
12	Black metal STAK coating	pin	
- 13	1		
14		TEM	
15	Bethroom Sink Calle	Rus	
16		1	1.0
17	L	TEM	
18	Shower Stell Cark	PLNS	
19			
20	1	TEM	
21	Red + white HVAK call	PLM	
22			
23		TEM	
24	Beige HVAL Mastic	PLN	
25			
1 26		TEM	
1			
*Comments/Special Ins	etructions:		
comments/opecial ins			
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Page 2 of 3 pages

Controlled Document - Asbestos COC - R10 - 05/09/2016

#### Page 3 Of

	Asbestos Chain of Custody	EMSL Analytical, Inc. 376 Crompton Street
EMSL	EMSL Order Number (Lab Use Only):	Charlotte, NC 28273
EN EMSL ANALYTICAL, INC.	(100)	PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
37-27	12" x12" tan speckled floor tile	PLM	
28	& mastic (toplayer)	1	The Carlos
29		TEM	
30	Roof shingles (2) + felt(1)	pens	
31			
32		TEM	
33	Black window Coult	plus	1999
- 34			
35		TEM	
36	Grey door calk	pung	
37		1	
38		TEM	and the second
39	Metal pipes of paint - vest pipes	PLM	
40	)		
41	L		
42	Black mostil on root penetroton	s Play	de la casa de la
43			
44	Contraction of the State of the State	TEM	No. Style 1997
45	Root goble vont carly	pin	
46			
- 47		JEN	
*Comments/Special Ins	structions:		
			7.0 2.0

Page 3 of 3 pages

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com

Apex Environmental Management

EMSL Order: 021707768 Customer ID: AXEM25 Customer PO: Project ID:

Phone:	(864) 640-5274
Fax:	
<b>Received Date:</b>	12/06/2017 9:00 AM
Analysis Date:	12/11/2017 - 12/12/2017
Collected Date:	12/04/2017

Project: Cammie Clagett Bldg. 37

7 Winchester Court Mauldin, SC 29662

Attention: Tom Oliver

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
37-1-Drywall	Drywall/Joint Compound/Tape	Brown/Gray Fibrous	40% Cellulose	60% Non-fibrous (Other)	None Detected
021707768-0001		Heterogeneous			
37-1-Joint Compound	Drywall/Joint Compound/Tape	Beige Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 66% Non-fibrous (Other)	3% Chrysotile
	Drywall/Joint	Brown/Gray	15% Cellulose	85% Non-fibrous (Other)	None Detected
37-2-Drywall	Compound/Tape	Fibrous Heterogeneous		65% NOT-HOLOUS (Other)	None Delected
37-2-Joint Compound	Drywall/Joint				Positive Stop (Not Analyzed)
021707768-0002A	Compound/Tape				
37-3-Drywall	Drywall/Joint	Brown/Gray	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707768-0003	Compound/Tape	Fibrous Heterogeneous		· · ·	
37-3-Joint Compound	Drywall/Joint Compound/Tape				Positive Stop (Not Analyzed)
021707768-0003A					
37-4-Drywall	Drywall/Joint Compound/Tape	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707768-0004		Heterogeneous			
37-4-Joint Compound	Drywall/Joint Compound/Tape				Positive Stop (Not Analyzed)
021707768-0004A	Drauslithint	D	15% Oallalaaa		News Detected
37-5-Drywall	Drywall/Joint Compound/Tape	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
	Drywall/Joint	Hotorogonoodo			Positive Stop (Not Analyzed)
37-5-Joint Compound	Compound/Tape				Positive Stop (Not Analyzed)
37-6-Skim Coat	Plaster w/ Finish Over	White/Beige		10% Ca Carbonate	None Detected
021707768-0006	Unfinished Drywall	Non-Fibrous Homogeneous		90% Non-fibrous (Other)	
37-6-Rough Coat	Plaster w/ Finish Over Unfinished Drywall	Gray/Tan Non-Fibrous	1% Cellulose	30% Quartz 69% Non-fibrous (Other)	None Detected
021707768-0006A		Heterogeneous			
37-6-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
021707768-0006B		Heterogeneous			
37-7-Skim Coat	Plaster w/ Finish Over Unfinished Drywall	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707768-0007		Homogeneous			
37-7-Rough Coat	Plaster w/ Finish Over Unfinished Drywall	Gray/Tan Non-Fibrous	1% Cellulose	30% Quartz 69% Non-fibrous (Other)	None Detected
021707768-0007A		Heterogeneous			
37-7-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
021707768-0007B		Heterogeneous			



Sample		Non-Asbestos			Asbestos
	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
37-8-Skim Coat	Plaster w/ Finish Over Unfinished Drywall	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707768-0008		Homogeneous			
37-8-Rough Coat	Plaster w/ Finish Over Unfinished Drywall	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	30% Quartz 1% Mica 69% Non-fibrous (Other)	None Detected
		Homogeneous	4004 0 11 1	· · · · · ·	
37-8-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
021707768-0008B		Heterogeneous			
37-9	Kitchen Counter Caulk	Tan/Beige Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707768-0009		Homogeneous			
37-10	Kitchen Counter Caulk	Beige Non-Fibrous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707768-0010		Homogeneous			
37-12	Black Metal Sink Coating	Brown/Black Non-Fibrous	1% Cellulose	96% Non-fibrous (Other)	3% Chrysotile
021707768-0012		Homogeneous			
37-13	Black Metal Sink Coating				Positive Stop (Not Analyzed)
021707768-0013					
37-15	Bathroom Sink Coat	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707768-0015		Homogeneous			
37-16	Bathroom Sink Coat	Beige Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707768-0016		Homogeneous			
37-18	Shower Stall Caulk	Beige Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707768-0018		Homogeneous			
37-19	Shower Stall Caulk	White/Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707768-0019		Homogeneous			
37-21-Red Caulk	Red/White HVAC Caulk	Black/Rust Fibrous	1% Cellulose 5% Synthetic	94% Non-fibrous (Other)	None Detected
021707768-0021	D 1444 11 11 40 0	Homogeneous			
37-21-White Caulk	Red/White HVAC Caulk	White/Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
		Homogeneous	<10/ Callulana		None Detected
37-22-Red Caulk	Red/White HVAC Caulk	Red/Black Non-Fibrous Homogeneous	<1% Cellulose 5% Synthetic	95% Non-fibrous (Other)	None Detected
	Rod/M/bita LIV/AC	, i i i i i i i i i i i i i i i i i i i	<10/ Callulana	10% Co Corbonata	None Detected
37-22-White Caulk	Red/White HVAC Caulk	White/Beige Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
	Beige HVAC Mastic		<1% Cellulose	98% Non fibrous (Other)	None Datacted
3 <b>7-24</b> 021707768-0024		Beige Non-Fibrous Homogeneous	2% Synthetic	98% Non-fibrous (Other)	None Detected
	Beige HVAC Mastic	Beige	<1% Cellulose	10% Ca Carbonate	None Detected
3 <b>7-25</b> 221707768-0025		Beige Non-Fibrous Homogeneous	1% Synthetic	89% Non-fibrous (Other)	
	12v12 Tan Speaklad	,		25% Quartz	None Detected
37-27-Floor Tile	12x12 Tan Speckled Floor Tile/Mastic	Tan/Beige Non-Fibrous Homogeneous		25% Quartz 75% Non-fibrous (Other)	None Detected
	10v10 Ton Charles		<10/ Callulana	100% Non fibrous (Other)	None Detected
37-27-Mastic	12x12 Tan Speckled Floor Tile/Mastic	Yellow/Orange Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
527707700-0027A		nomogeneous			

Initial report from: 12/12/2017 11:04:36



EMSL Order: 021707768 Customer ID: AXEM25 Customer PO: Project ID:

		Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
37-28-Floor Tile	12x12 Tan Speckled Floor Tile/Mastic	Tan/Beige Non-Fibrous Homogeneous		25% Quartz 75% Non-fibrous (Other)	None Detected
37-28-Mastic	12x12 Tan Speckled Floor Tile/Mastic	Tan Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
21707768-0028A		Homogeneous			
37-30-Shingle 1 21707768-0030	Roof Shingles/Felt	Brown/Black/Orang e Fibrous Heterogeneous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
37-30-Shingle 2	Roof Shingles/Felt	Brown/Black/Green Fibrous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
21707768-0030A		Heterogeneous			
7-30-Felt 21707768-0030B	Roof Shingles/Felt	Black Fibrous	80% Cellulose	20% Non-fibrous (Other)	None Detected
7-31-Shingle 1	Roof Shingles/Felt	Homogeneous Brown/Black/Orang	8% Glass	92% Non-fibrous (Other)	None Detected
21707768-0031		e Fibrous Heterogeneous			
37-31-Shingle 2	Roof Shingles/Felt	Gray/Black/Green Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
21707768-0031A		Heterogeneous			
7-31-Felt	Roof Shingles/Felt	Black Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected
21707768-0031B		Homogeneous			
1 <b>7-33</b> 21707768-0033	Black Window Caulk	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37-34	Black Window Caulk	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
21707768-0034		Homogeneous			
7-36	Grey Door Caulk	Brown/Gray/Tan Non-Fibrous	<1% Cellulose <1% Fibrous (Other)	10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile
21707768-0036		Heterogeneous			
57-37	Grey Door Caulk				Positive Stop (Not Analyzed)
21707768-0037					
37-39	Metal Pipes w/ Paint- Vent Pipes	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected
21707768-0039 7-40	Metal Pipes w/ Paint-	Homogeneous Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected
21707768-0040	Vent Pipes	Homogeneous			
37-41	Metal Pipes w/ Paint- Vent Pipes	Silver Non-Fibrous		100% Non-fibrous (Other)	None Detected
21707768-0041	-	Homogeneous			
37-42	Black Mastic on Roof Penetrations	Brown/Black Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected
021707768-0042		Homogeneous			
37-43	Black Mastic on Roof Penetrations	Brown/Black Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected
37-45	Roof Goble Vent	Homogeneous White/Beige	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707768-0045	Caulk	Non-Fibrous Homogeneous			



EMSL Order: 021707768 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

		Non-Asbestos			Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
37-46	Roof Goble Vent	Beige	<1% Cellulose	10% Ca Carbonate	None Detected	
	Caulk	Non-Fibrous		90% Non-fibrous (Other)		
021707768-0046		Homogeneous				

Analyst(s)

Nicole Shutts (19) Scott Combs (29)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 12/12/2017 11:04:36

EMSL

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com EMSL Order: 021707768 Customer ID: AXEM25 Customer PO: Project ID:

Attention:Tom OliverPhone:(864) 640-5274Apex Environmental ManagementFax:7 Winchester CourtReceived Date:12/06/20179:00 AMMauldin, SC 29662Analysis Date:12/11/2017Collected Date:12/04/2017

Project: Cammie Clagett Bldg. 37

## 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
37-11 021707768-0011	Kitchen Counter Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-14 021707768-0014	Black Metal Sink Coating				
Positive St	op (Not Analyzed)				
37-17 021707768-0017	Bathroom Sink Coat	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-20 021707768-0020	Shower Stall Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-23-Red Caulk 021707768-0023	Red/White HVAC Caulk	Red/Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-23-Greyish Caulk 021707768-0023A	Red/White HVAC Caulk	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-26 021707768-0026	Beige HVAC Mastic	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-29 021707768-0029	12x12 Tan Speckled Floor Tile/Mastic	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-29A 021707768-0029A	12x12 Tan Speckled Floor Tile/Mastic	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-32-Shingel 1 021707768-0032	Roof Shingles/Felt	Brown/Tan/Red Fibrous Heterogeneous	100	None	No Asbestos Detected
37-32-Shingle 2 021707768-0032A	Roof Shingles/Felt	Brown/Gray/Red Fibrous Heterogeneous	100	None	No Asbestos Detected
37-32-Felt 021707768-0032B	Roof Shingles/Felt	Black Fibrous Homogeneous	100	None	No Asbestos Detected

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

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

EMSL 706 Gralin St Tel/Fax: (336

EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com EMSL Order: 021707768 Customer ID: AXEM25 Customer PO: Project ID:

Attention: Tom Oliver	Phone: (864) 640-5274
Apex Environmental Management	Fax:
7 Winchester Court	Received Date: 12/06/2017 9:00 AM
Mauldin, SC 29662	Analysis Date: 12/11/2017
	Collected Date: 12/04/2017

Project: Cammie Clagett Bldg. 37

#### 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
37-35	Black Window Caulk	Black	100	None	No Asbestos Detected
021707768-0035		Non-Fibrous			
		Homogeneous			
37-38	Grey Door Caulk				
021707768-0038					
Positive	Stop (Not Analyzed)				
37-44	Black Mastic on Roof	Black	100	None	No Asbestos Detected
021707768-0044	Penetrations	Non-Fibrous			
		Homogeneous			
37-47	Roof Goble Vent Caulk	Beige	100	None	No Asbestos Detected
021707768-0047		Non-Fibrous			
		Homogeneous			

Analyst(s)

Stephen Bennett (14)

Stephen Bennett, 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. Kernersville, NC

ID: 021707768	Page 1 (	Df			
	Asbestos Cha	in of Cus	tody		llytical, Inc. oton Street
EMSL ANALYTICAL, INC. LABORATORY-PRODUCTS-TRAINING AXEN	EMSL Order Nur				NC 28273 (704) 525-2205 (704) 525-2382
					() 011 1001
Company Name : Apex Environmen	tal Management	EMSL Custo			
Street: 7 Winchester Court		City: Mauldi		State/Provin	ce: SC
Zip/Postal Code: 29662	Country: US	Telephone #	:864-404-3210	Fax #:	
Report To (Name): 100 Olive	r	Please Provi	ide Results: 🔲 F	ax 🗹 Email	
Email Address: toliver Dapex Project Name/Number: Cammie U.S. State Samples Taken: 56			rder: ct ID ( <i>Internal Use</i> 0 :		dential/Tax Exempt
	ill to: Same Different - Third Party Billing requires wri			ments**	
□ 3 Hour       □ 6 Hour         *For TEM Air 3 hr through 6 hr, please call at authorization form for this service.         PCM - Air       □ Check if samples are from NY         □ NIOSH 7400         □ w/ OSHA 8hr. TWA         PLM - Bulk (reporting limit)         □ PLM EPA 600/R-93/116 (<1%)	Turnaround Time (TAT)         24 Hour       48 Hour         head to schedule.*There is a premiu         Analysis completed in accordance         TEM - Air       4-4.5hr TAT         AHERA 40 CFR, Part 76         NIOSH 7402         EPA Level II         ISO 10312         TEM - Bulk         TEM - Bulk         NYS NOB 198.4 (non-friation of the second of t	Options* – PI 72 Hou m charge for 3 Hou with EMSL's Term (AHERA only)	ease Check ur 96 Hour ur TEM AHERA or EPA ns and Conditions locat TEM- Dust Microvac - AST Wipe - ASTM I Carpet Sonicat Soil/Rock/Vermic PLM EPA 600/ PLM EPA 600/ TEM EPA 600/	Level II TAT. You v ed in the Analytical I TM D 5755 D6480 cion (EPA 600/J-9 <u>culite</u> R-93/116 with m 'R-93/116 with m 'R-93/116 with m	93/167) 93/167) illing prep (<1%) illing prep (<0.25%) illing prep (<0.1%)
Point Count w/Gravimetric 400 (<0.25%) 1000 (<0.1%) NYS 198.1 (friable in NY) NYS 198.6 NOB (non-friable-NY) NYS 198.8 SOF-V NIOSH 9002 (<1%)	LChatfield SOP TEM Mass Analysis-EPA TEM – Water: EPA 100.2 Fibers >10µm Waste All Fiber Sizes Waste	Drinking	TEM Qualitativ		t Prep )4/004 – PLM/TEM
Check For Positive Stop – Clearly		p   Filter	Pore Size (Air Sam	nples): 0.8µ	m0.45µm
Samplers Name: 10m 01	ive	Samplers	Signature:	2	
Sample #	Sample Descript	ion		me/Area (Air) A # (Bulk)	Date/Time Sampled
37-1 Dryu 1 2 tone	ull of joint co	mond	2 P	im	
3					a was in starting
4					
_ 5					35,
Client Sample # (s):	1-9	47	Total #	of Samples:	47 47
Relinquished (Client):	Date	: 12-4-	12	Time:	
Received (Lab):	Date	1.101	17	Time:	0
Comments/Special Instructions:	Be.	Fx 795	537978	4161	

Page 1 of \_\_\_\_\_\_ pages

Controlled Document - Asbestos COC - R10 - 05/09/2016

3

Page 2 Of

		EMSL Analytical, Inc.
EMSL	Asbestos Chain of Custody EMSL Order Number (Lab Use Only):	376 Crompton Street
EN EMSL ANALYTICAL, INC.	(7768)	Charlotte, NC 28273 PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
31- 6	Pryould Plaster of Finish over	PLM	
1 7	unfinished dynam		
8			
9	Kitchen counter calle	Plan	
10		1	
11		TEm	
12	Black metal STAK coating	pin	
- 13	1		
14		TEM	
15	Bethroom Sink Calle	Rus	
16		1	1.0
17	L	TEM	
18	Shower Stell Cark	PLNS	
19			
20	1	TEM	· · · · · · · · · · · · · · · · · · ·
21	Red + white HVAK call	PLM	
22			
23		TEM	
24	Beige HVAL Mastic	PLN	
25			
1 26		TEM	
1			
*Comments/Special Ins	etructions:		
comments/opecial ins			
	그는 성장에 가지 않는 것을 알았다.		

Page 2 of 3 pages

Controlled Document - Asbestos COC - R10 - 05/09/2016

#### Page 3 Of

	Asbestos Chain of Custody	EMSL Analytical, Inc. 376 Crompton Street
EMSL	EMSL Order Number (Lab Use Only):	Charlotte, NC 28273
EN EMSL ANALYTICAL, INC.	(100)	PHONE: (704) 525-2205 FAX: (704) 525-2382

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
37-27	12" x12" tan speckled floor tile	PLM	
28	& mustic (toplayer)	1	The Carlos
29		TEM	
30	Roof shingles (2) + felt(1)	pens	
31			
32		TEM	
33	Black window Coult	plus	yer and
- 34			
35		TEM	
36	Grey door calk	pung	
37		1	
38		TEM	and the second
39	Metal pipes of paint - vest pipes	PLM	
40	)		
41	L		
42	Black mostil on root penetroton	s Play	de la casa de la
43			
44	Street and a stree	TEM	No. Style 1997
45	Root goble vont carly	PLM	
46			
- 47		JEN	
*Comments/Special Ins	structions:		
			7.0 2.0

Page 3 of 3 pages

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com Attention: Tom Oliver

Apex Environmental Management

7 Winchester Court Mauldin, SC 29662

Project: Cammie Clagett Bldg. 38

EMSL Order: 021707770 Customer ID: AXEM25 Customer PO: Project ID:

Phone:	(864) 640-5274
Fax:	
Received Date:	12/06/2017 9:00 AM
Analysis Date:	12/13/2017
Collected Date:	12/04/2017

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

			Asbestos		
Sample	Description	Appearance	<u>Non-Asbe</u> % Fibrous	% Non-Fibrous	% Туре
38-1-Drywall	Drywall/Joint Compound/Tape	Brown/Gray Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
021707770-0001		Heterogeneous			
38-1-Joint Compound	Drywall/Joint Compound/Tape	Beige Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 66% Non-fibrous (Other)	3% Chrysotile
38-2-Drywall	Drywall/Joint	Brown/Gray	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707770-0002	Compound/Tape	Fibrous Heterogeneous			
38-2-Joint Compound	Drywall/Joint Compound/Tape	-			Positive Stop (Not Analyzed)
021707770-0002A	compound, rapo				
38-3-Drywall	Drywall/Joint Compound/Tape	Brown/Gray Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
021707770-0003	Drawell/Jaint	Heterogeneous			
38-3-Joint Compound	Drywall/Joint Compound/Tape				Positive Stop (Not Analyzed)
021707770-0003A	Drywall/Joint	Brown/Crov	15% Cellulose	95% Non fibrous (Other)	None Detected
38-4-Drywall	Compound/Tape	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
38-4-Joint Compound	Drywall/Joint	notorogonoodo			Positive Stop (Not Analyzed)
	Compound/Tape				
021707770-0004A	Drywall/Joint	Brown/Crov	200/ Collulado	80% Non-fibrous (Other)	None Detected
38-5-Drywall	Compound/Tape	Brown/Gray Fibrous Heterogeneous	20% Cellulose	80% Non-Indious (Other)	None Detected
	Denuell/Jaint	Tieleiogeneous			
38-5-Joint Compound	Drywall/Joint Compound/Tape				Positive Stop (Not Analyzed)
021707770-0005A 38-6-Drywall	Drywall/Joint	Brown/Gray	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707770-0006	Compound/Tape	Fibrous			None Delected
	Descuell/Leist	Heterogeneous			
38-6-Joint Compound	Drywall/Joint Compound/Tape				Positive Stop (Not Analyzed)
021707770-0006A 38-7-Drywall	Drywall/Joint	Brown/Gray	20% Cellulose	80% Non-fibrous (Other)	None Detected
	Compound/Tape	Fibrous	2070 06110036		None Detected
38-7-Joint Compound	Drywall/Joint	Heterogeneous			Positive Stop (Not Analyzed)
	Compound/Tape				
021707770-0007A					
38-8-Skim Coat	Plaster w/ Finish Over Unfinished Drywall	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
021707770-0008		Homogeneous			
38-8-Rough Coat	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray/Tan Non-Fibrous	1% Cellulose	30% Quartz 69% Non-fibrous (Other)	None Detected
021707770-0008A		Heterogeneous			



**EMSL** Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com EMSL Order: 021707770 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

		Non-Asbestos			Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
38-8-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected	
021707770-0008B		Heterogeneous				
38-9-Skim Coat	Plaster w/ Finish Over Unfinished Drywall	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
021707770-0009		Homogeneous				
38-9-Rough Coat	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray/Tan Non-Fibrous	1% Cellulose	30% Quartz 69% Non-fibrous (Other)	None Detected	
021707770-0009A		Heterogeneous				
88-9-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous	10% Cellulose 1% Glass	89% Non-fibrous (Other)	None Detected	
021707770-0009B		Heterogeneous				
38-10-Skim Coat	Plaster w/ Finish Over Unfinished Drywall	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
021707770-0010		Homogeneous				
38-10-Rough Coat	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray/Tan Non-Fibrous	1% Cellulose	30% Quartz 69% Non-fibrous (Other)	None Detected	
	Director w/ Finish O	Heterogeneous		950/ Non Shrows (Other)	Nono Detector	
38-10-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected	
	Planter w/ Finish Ourse	•	<10/ Callulate	200/ Co Corboneta	Neno Detected	
38-11-Texture	Plaster w/ Finish Over Unfinished Drywall	White/Beige Non-Fibrous Homogeneous	<1% Cellulose	30% Ca Carbonate 70% Non-fibrous (Other)	None Detected	
	Plaster w/ Finish Over	White		10% Ca Carbonate	None Detected	
38-11-Skim Coat	Unfinished Drywall	Non-Fibrous Homogeneous		90% Non-fibrous (Other)	None Delected	
	Plaster w/ Finish Over	Brown/Gray/Tan	1% Cellulose	30% Ca Carbonate	None Detected	
88-11-Rough Coat	Unfinished Drywall	Non-Fibrous Heterogeneous		69% Non-fibrous (Other)	None Delected	
38-11-Drywall	Plaster w/ Finish Over	Brown/Gray	15% Cellulose	85% Non-fibrous (Other)	None Detected	
021707770-0011C	Unfinished Drywall	Fibrous Heterogeneous				
38-12-Skim Coat	Plaster w/ Finish Over	White		20% Ca Carbonate	None Detected	
021707770-0012	Unfinished Drywall	Non-Fibrous Homogeneous		80% Non-fibrous (Other)		
38-12-Rough Coat	Plaster w/ Finish Over	Gray/Tan		30% Quartz	None Detected	
	Unfinished Drywall	Non-Fibrous		70% Non-fibrous (Other)		
021707770-0012A		Heterogeneous				
38-12-Drywall	Plaster w/ Finish Over Unfinished Drywall	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected	
021707770-0012B		Heterogeneous				
38-13-Floor Tile	12x12 Tan Speckled Floor Tile/Mastic	Tan/Beige Non-Fibrous		25% Quartz 75% Non-fibrous (Other)	None Detected	
021707770-0013		Homogeneous				
38-13-Mastic	12x12 Tan Speckled Floor Tile/Mastic	Yellow Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected	
021707770-0013A		Homogeneous				
38-14-Floor Tile	12x12 Tan Speckled Floor Tile/Mastic	Tan/Beige Non-Fibrous		25% Quartz 75% Non-fibrous (Other)	None Detected	
021707770-0014		Homogeneous				
38-14-Mastic	12x12 Tan Speckled Floor Tile/Mastic	Yellow Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected	
021707770-0014A 38-16-Floor Tile	12x12 Cream Floor	Homogeneous Beige		25% Quartz	None Detected	
021707770-0016	Tile/Mastic	Non-Fibrous Homogeneous		75% Non-fibrous (Other)		



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

			Non-Asbes	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
38-16-Mastic	12x12 Cream Floor Tile/Mastic	Black/Yellow Non-Fibrous	<1% Cellulose	98% Non-fibrous (Other)	2% Chrysotile
021707770-0016A		Heterogeneous			
38-17-Floor Tile	12x12 Cream Floor Tile/Mastic	Beige Non-Fibrous		25% Quartz 75% Non-fibrous (Other)	None Detected
021707770-0017	10, 10, 0 m Flam	Homogeneous			Destition Ofers (Net Archard
8-17-Mastic	12x12 Cream Floor Tile/Mastic				Positive Stop (Not Analyzed)
21707770-0017A	10v10 Doigo Floor	Top (M/bito		25% Quartz	Nana Datastad
88-19-Floor Tile	12x12 Beige Floor Tile/Mastic	Tan/White Non-Fibrous		75% Non-fibrous (Other)	None Detected
		Homogeneous			40/ Observe tille
88-19-Mastic	12x12 Beige Floor Tile/Mastic	Black/Gold/Orange Non-Fibrous	<1% Cellulose <1% Synthetic	100% Non-fibrous (Other)	<1% Chrysotile
21707770-0019A		Heterogeneous		057/ 0	
38-20-Floor Tile	12x12 Beige Floor Tile/Mastic	Tan/White Non-Fibrous		25% Quartz 75% Non-fibrous (Other)	None Detected
	10v10 Doing Flags	Homogeneous		00% Non Shares (Others)	
38-20-Mastic	12x12 Beige Floor Tile/Mastic	Black/Orange Non-Fibrous	<1% Cellulose	98% Non-fibrous (Other)	2% Chrysotile
		Homogeneous		25% Outsta	News Detected
88-22-Floor Tile	12x12 Light Tan Floor Tile/Mastic	Beige Non-Fibrous		25% Quartz 75% Non-fibrous (Other)	None Detected
21707770-0022		Homogeneous			
8-22-Mastic	12x12 Light Tan Floor Tile/Mastic	Yellow/Gold Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707770-0022A		Homogeneous			
38-23-Floor Tile	12x12 Light Tan Floor Tile/Mastic	Beige Non-Fibrous		25% Quartz 75% Non-fibrous (Other)	None Detected
		Homogeneous		4000/ New Shrave (Other)	News Detected
38-23-Mastic	12x12 Light Tan Floor Tile/Mastic	Yellow Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
38-24-B	Bathroom Sink Caulk	Homogeneous White		100% Non-fibrous (Other)	None Detected
00-24-B 021707770-0025	Bathoon Sink Cauk	Non-Fibrous Homogeneous			None Delected
	Bathroom Sink Caulk	Tan/White/Beige	<1% Cellulose	100% Non-fibrous (Other)	None Detected
38-25	Bathoon Sink Cauk	Non-Fibrous Homogeneous			None Delected
	Shower Stall Caulk	White/Beige		100% Non-fibrous (Other)	None Detected
38-27 21707770-0028	Shower Stail Caulk	Non-Fibrous Homogeneous			None Delected
38-28	Shower Stall Caulk	White/Beige	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707770-0029		Non-Fibrous Homogeneous			
38-30	Kitchen Counter Caulk	White/Beige Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
021707770-0031	Jaun	Homogeneous			
88-31	Kitchen Counter Caulk	Tan/Beige Non-Fibrous	3% Cellulose	97% Non-fibrous (Other)	None Detected
21707770-0032	Jaun	Homogeneous			
38-33-Caulk	HVAC Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0034		Homogeneous			
38-33-Joint Compound	HVAC Caulk	Tan Non-Fibrous	1% Cellulose	30% Ca Carbonate 66% Non-fibrous (Other)	3% Chrysotile
021707770-0034A		Homogeneous			

Initial report from: 12/13/2017 10:40:45



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EMSL Order: 02170770 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

			Non-Asbe	estos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
38-34	HVAC Caulk	Tan/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38-36-Tape	HVAC Tape/Mastic	Gray/Tan/Silver Fibrous	80% Cellulose	20% Non-fibrous (Other)	None Detected
21707770-0037		Heterogeneous			
38-36-Mastic	HVAC Tape/Mastic	Tan/Yellow/Gold Non-Fibrous	3% Cellulose	97% Non-fibrous (Other)	None Detected
8-37-Tape	HVAC Tape/Mastic	Homogeneous Gray/Tan/Silver Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected
021707770-0038		Heterogeneous			
88-37-Mastic	HVAC Tape/Mastic	Yellow/Gold Non-Fibrous	3% Cellulose	97% Non-fibrous (Other)	None Detected
21707770-0038A		Homogeneous			
38-39	Black Sink Coating	Black Non-Fibrous	<1% Cellulose	98% Non-fibrous (Other)	2% Chrysotile
021707770-0040	Pleak Sink Contin	Homogeneous			Depitive Stor (Net Arel
38-40	Black Sink Coating				Positive Stop (Not Analyzed)
21707770-0041					
38-42	Interior Window Caulk-White	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
21707770-0043		Homogeneous			
8-43 21707770-0044	Interior Window Caulk-White	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38-45-Shingle 1	Roof/Awning	Brown/Tan/Red	8% Glass	92% Non-fibrous (Other)	None Detected
21707770-0046	Shingles/Felt	Fibrous Heterogeneous	0 % 01855	92 % Non-horous (Other)	None Delected
8-45-Shingle 2	Roof/Awning Shingles/Felt	Brown/Tan/Red Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
21707770-0046A		Heterogeneous			
38-45-Shingle 3	Roof/Awning Shingles/Felt	Gray/Black Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
021707770-0046B	Destit	Heterogeneous	700/ 0 - 11- 1		New Patrickal
38-45-Felt	Roof/Awning Shingles/Felt	Black Fibrous Heterogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
38-46-Shingle 1	Roof/Awning Shingles/Felt	Brown/Tan/Red Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
21707770-0047	<b>3 1 1</b>	Heterogeneous			
88-46-Shingle 2	Roof/Awning Shingles/Felt	Brown/Tan/Red Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
021707770-0047A		Heterogeneous			
38-46-Shingle 3	Roof/Awning Shingles/Felt	Gray/Black Fibrous Heterogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
	Roof/Awning	Black	70% Callulaca	30% Non fibrous (Other)	None Detected
38-46-Felt 21707770-0047C	Roof/Awning Shingles/Felt	Black Fibrous Heterogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
38-48	Painted Metal	Gray		100% Non-fibrous (Other)	None Detected
	Pipe-Vent Pipes	Non-Fibrous			
021707770-0049 38-49	Painted Metal	Homogeneous Gray		100% Non-fibrous (Other)	None Detected
021707770-0050	Pipe-Vent Pipes	Non-Fibrous Homogeneous			

Initial report from: 12/13/2017 10:40:45



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

			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
38-51	Black Mastic on Roof Penetrations	Black Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707770-0052		Heterogeneous			
38-52	Black Mastic on Roof Penetrations	Black Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
021707770-0053		Heterogeneous			
38-57	Awning/Flashing Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0055		Homogeneous			
38-58	Awning/Flashing Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0056		Homogeneous			
38-60	Interior/Exterior Brown Caulk	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0058		Homogeneous			
38-61	Interior/Exterior Brown Caulk	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0059		Homogeneous			
38-63	Door Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0061		Homogeneous			
38-64	Door Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0062		Homogeneous			
38-66	Roof Goble Vent Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0064		Homogeneous			
38-67	Roof Goble Vent Caulk	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
021707770-0065		Homogeneous			

Analyst(s)

James Cole (26) Scott Combs (49)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. 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. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 12/13/2017 10:40:45

EMSL

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com EMSL Order: 021707768 Customer ID: AXEM25 Customer PO: Project ID:

Attention:Tom OliverPhone:(864) 640-5274Apex Environmental ManagementFax:7 Winchester CourtReceived Date:12/06/20179:00 AMMauldin, SC 29662Analysis Date:12/11/2017Collected Date:12/04/2017

Project: Cammie Clagett Bldg. 37

## 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
37-11 021707768-0011	Kitchen Counter Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-14 021707768-0014	Black Metal Sink Coating				
Positive St	op (Not Analyzed)				
37-17 021707768-0017	Bathroom Sink Coat	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-20 021707768-0020	Shower Stall Caulk	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-23-Red Caulk 021707768-0023	Red/White HVAC Caulk	Red/Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-23-Greyish Caulk 021707768-0023A	Red/White HVAC Caulk	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-26 021707768-0026	Beige HVAC Mastic	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-29 021707768-0029	12x12 Tan Speckled Floor Tile/Mastic	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-29A 021707768-0029A	12x12 Tan Speckled Floor Tile/Mastic	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
37-32-Shingel 1 021707768-0032	Roof Shingles/Felt	Brown/Tan/Red Fibrous Heterogeneous	100	None	No Asbestos Detected
37-32-Shingle 2 021707768-0032A	Roof Shingles/Felt	Brown/Gray/Red Fibrous Heterogeneous	100	None	No Asbestos Detected
37-32-Felt 021707768-0032B	Roof Shingles/Felt	Black Fibrous Homogeneous	100	None	No Asbestos Detected

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

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

EMSL 706 Gralin St Tel/Fax: (336

EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com EMSL Order: 021707768 Customer ID: AXEM25 Customer PO: Project ID:

Attention: Tom Oliver	Phone: (864) 640-5274
Apex Environmental Management	Fax:
7 Winchester Court	Received Date: 12/06/2017 9:00 AM
Mauldin, SC 29662	Analysis Date: 12/11/2017
	Collected Date: 12/04/2017

Project: Cammie Clagett Bldg. 37

#### 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
37-35	Black Window Caulk	Black	100	None	No Asbestos Detected
021707768-0035		Non-Fibrous			
		Homogeneous			
37-38	Grey Door Caulk				
021707768-0038					
Positive	Stop (Not Analyzed)				
37-44	Black Mastic on Roof	Black	100	None	No Asbestos Detected
021707768-0044	Penetrations	Non-Fibrous			
		Homogeneous			
37-47	Roof Goble Vent Caulk	Beige	100	None	No Asbestos Detected
021707768-0047		Non-Fibrous			
		Homogeneous			

Analyst(s)

Stephen Bennett (14)

Stephen Bennett, Laboratory Manager or other approved signatory

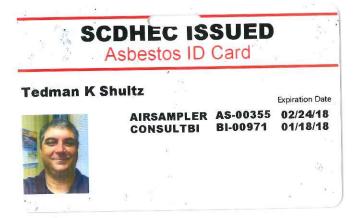
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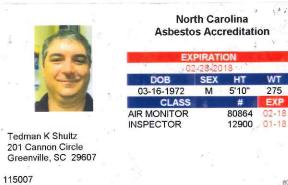
Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

APPENDIX V

SC DHEC ASBESTOS INSPECTOR LICENSES







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