

ASBESTOS ASSESSMENT



DWELLING DEMOLITION

919 WEST 5TH NORTH STREET
SUMMERVILLE, SOUTH CAROLINA 29483

ECS PROJECT NO. 49:11848

FOR: TOWN OF SUMMERVILLE

JUNE 29, 2020





June 29, 2020

Mr. Russ Cornette
Town of Summerville
200 S Main Street
Summerville, South Carolina 29483

ECS Project No. 49:11848

Reference: Asbestos Assessment, Dwelling Demolition, 919 West 5th North
Street, Summerville, South Carolina

Dear Mr. Cornette:

ECS Southeast, LLP (ECS) is pleased to provide Town of Summerville with the results of the above referenced Asbestos Assessment performed at the dwelling located at 919 West 5th North Street in Summerville, South Carolina. This report summarizes our observations, analytical results, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 49:19226 and the terms and conditions of the agreement authorizing those services.

ECS appreciates this opportunity to provide Town of Summerville with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Southeast, LLP

A handwritten signature in blue ink, appearing to read 'KRG', written over a light blue circular stamp.

Kurt Robert Gauthier
Assistant Staff Project Manager
kgauthier@ecslimited.com
843-654-4448

A handwritten signature in blue ink, appearing to read 'Justin Roth', written over a light blue circular stamp.

Justin Roth, CHMM
Environmental Principal
jroth@ecslimited.com
(843) 749-2754

EXECUTIVE SUMMARY

The subject property is improved with an approximately 2,079 square foot, single-family dwelling reportedly originally constructed in 1971. At the time of our survey the subject building was vacant and is currently scheduled to be demolished.

The purpose of the survey was to determine if asbestos-containing materials (ACMs) are present on the subject property. The assessment was performed within interior and exterior areas of the residence as well as the roof.

Based on the laboratory analysis of the bulk samples collected during the survey, the following materials were reported to contain asbestos:

- **White Brick Pattern Linoleum & Mastic: (Sample ID 09-01,02,03)**
- **Wood Pattern Linoleum Tile & Mastic: (Sample ID 11-01,02,03)**
- **Beige 12" x 12" Vinyl Floor Tile: (Sample ID 15-01,02,03)**
- **Decorative Patterned Vinyl Floor Tile: (Sample ID 16-01,02,03)**
- **Textured Ceiling: (Sample ID 21-01,02,03,04,05)**

The executive summary is an integral portion of this report, however, ECS recommends the report be read in its entirety.

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1.0 SITE DESCRIPTION

The subject property is improved with an approximately 2,079 square foot, single-family dwelling reportedly originally constructed in 1971. Building finishes observed within the residence consist of a wood sub-floor, vinyl floor tiles, linoleum and carpet; the wall systems consist of drywall wallboard and particle wallboard; and the ceiling systems consist of drywall. The exterior walls of the residence consist mainly of Concrete Masonry Unit (CMU) block walls with portions of wood siding.

2.0 PURPOSE

The purpose of the Asbestos Assessment was to identify asbestos-containing materials (ACMs), which may require special handling and/or disposal if removed during construction activities. The identification of ACMs may require trained labor, regulated work practices, and special disposal.

3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for the identification of Asbestos-Containing Materials (ACMs).

3.1 Asbestos-Containing Materials

The non-destructive asbestos assessment was performed by an asbestos inspector who has received EPA accredited training and is licensed by South Carolina (Kurt Gauthier SC Building Inspector No. BI-01787). Samples of suspect ACMs were collected utilizing hand tools and placed into individual, labeled plastic bags. Unique bulk suspect ACM samples were submitted to SAI Lab in Greensboro, North Carolina for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately. SAI Lab is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis by currently approved EPA methodology by PLM and TEM.

During the survey, ECS attempted to identify suspect ACMs in readily accessible areas. However, due to the destructive means required to identify some materials, certain areas were deemed inaccessible (i.e. behind walls or sub grade materials) and were not surveyed for suspect ACMs. Unidentified suspect ACMs may be located in these and/or other inaccessible areas.

Samples were collected in general accordance with EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol. Multiple samples of each unique material were submitted. Samples were analyzed using "Positive Stop" methodology. If one sample of a homogeneous material is reported to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis.

If one sample of a material from a homogeneous area was reported to contain greater than 1% asbestos, then by EPA definition, it was characterized as asbestos-containing material. 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 SC-DHEC requirements for NOB's by transmission electron microscopy (TEM) using the Chatfield method.

4.0 RESULTS

The following is a summary of laboratory results, findings and observations.

4.1 Asbestos-Containing Materials

In total, 84 bulk samples from 26 homogeneous areas were submitted to the laboratory of which 117 layers were analyzed.

An Asbestos-Containing Material (ACM) is defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM. Materials are categorized by the U.S. EPA in the following categories:

- Friable ACMs are defined as any ACM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. Non-friable ACMs are defined as any ACM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.
- Category I non-friable ACM are listed as following: packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than one percent (>1%) asbestos.
- Category II non-friable ACM are listed as any material, excluding Category I non-friable ACM, containing more than one percent (>1%) asbestos.

Regulated Asbestos Containing Materials (RACM) are friable ACM or non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or has crumbled, been pulverized, or reduced to powder in the course of renovation and/or demolition operations.

SAI Lab submitted a signed final laboratory report to ECS on June 29, 2020. Of the bulk samples submitted for analysis, six materials were reported to contain asbestos in detectable concentrations. These materials are summarized below. A complete list of the sampled materials submitted for analysis and sample locations are located in the Appendix of this report. Additional details regarding the overall locations of the materials identified as asbestos-containing are provided further in the report. Photographs of collected samples reported as asbestos-containing are also located in the Appendix of this report.

Summary of Asbestos-Containing Materials Identified

Sample ID	Location	Material Description	Analytical Results	Category	Estimated Quantity
01-01,02,03	Roof	Black Roof Tar	None Detected	Non Friable/ Good Condition	80 SF
02-01,02,03	Roof	Brown Roof Tar	None Detected	Non Friable/ Good Condition	40 SF
03-01,02,03	Roof	Black Shingle & Felt Paper	None Detected	Non Friable/ Good Condition	1,200 SF
04-01,02,03	Roof	Brown Shingle	None Detected	Non Friable/ Good Condition	600 SF
05-01,02,03	Windows/ doors	Exterior Window & Door Caulking	None Detected	Non Friable/ Good Condition	60 LF
06-01,02,03	Windows	Window Glazing	None Detected	Non Friable/ Good Condition	30 LF
07-01,02,03	Sink	Beige Sink Caulking	None Detected	Non Friable/ Good Condition	10 LF
08-01,02,03	Upstairs & kitchen	Brown Square Pattern Linoleum & Mastic	None Detected	Non Friable/ Good Condition	340 SF
09-01,02,03	Kitchen	White Brick Pattern Linoleum & Mastic	Linoleum & Mastic: 7% Chrysotile	Non Friable/ Good Condition	8 SF

Sample ID	Location	Material Description	Analytical Results	Category	Estimated Quantity
10-01,02,03	1st floor bathroom	White Square Pattern Linoleum	None Detected	Non Friable/ Good Condition	30 SF
11-01,02,03	1st floor bedroom	Wood Pattern Linoleum Tile & Mastic	Tile: 1.7% Chrysotile Mastic: 2.8% Chrysotile	Non Friable/ Good Condition	110 SF
12-01,02,03	Upstairs bedroom	White & Blue Patterned Linoleum	None Detected	Non Friable/ Good Condition	200 SF
13-01,02,03	Upstairs bedroom storage closet	White 3" x 3" Square Patterned Linoleum	None Detected	Non Friable/ Good Condition	80 SF
14-01,02,03	Kneewall	Beige Polygon Linoleum	None Detected	Non Friable/ Good Condition	60 SF
15-01,02,03	2nd floor closet	Beige 12" x 12" Vinyl Floor Tile (VFT) & Mastic	Tile: 2% Chrysotile	Non Friable/ Good Condition	20 SF
16-01,02,03	2nd floor closet	Decorative Patterned VFT & Mastic	Tile: 2% Chrysotile	Non Friable/ Good Condition	20 SF
17-01,02,03	2nd floor closet	Blue VFT & Mastic	None Detected	Non Friable/ Good Condition	20 SF
18-01,02,03	2nd floor closet	Black Closet Mastic	None Detected	Non Friable/ Good Condition	10 LF

Sample ID	Location	Material Description	Analytical Results	Category	Estimated Quantity
19-01,02,03	Throughout	Drywall	None Detected	Friable/ Good Condition	1,800 SF
20-01,02,03,04,05	Throughout	Joint Compound	None Detected	Friable/ Good Condition	1,800 SF
21-01,02,03,04,05	Throughout	Textured Ceiling	2% Chrysotile	Friable/ Good Condition	1,500 SF
22-01,02,03	Exterior under siding	Felt Paper Under Siding	None Detected	Non Friable/ Good Condition	1,100 SF
23-01,02,03	Kitchen wall	Brown Kitchen Wall Mastic	None Detected	Non Friable/ Good Condition	10 SF
24-01,02,03,04,05	1st floor walls	CMU Block Filler	None Detected	Friable/ Good Condition	2,000 SF
25-01,02,03	1st floor side bathroom	Dark Grey Square Patterned Linoleum	None Detected	Non Friable/ Good Condition	28 SF
26-01,02,03	1st floor side closet	Tan 12" x 12" Linoleum & Mastic	None Detected	Non Friable/ Good Condition	30 SF

*Quantities are estimated and should not be utilized for bidding purposes for abatement.

4.2 Suspect or Assumed Asbestos-Containing Materials

Due to the inaccessibility or the destructive means that asbestos sampling requires, additional suspect ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, sub-grade sealants, flooring located below underlayments, areas behind exterior walls, pipe trenches, and subsurface utilities, etc. These areas were deemed inaccessible and were not assessed.

If these materials are discovered during construction activities, they should be presumed to contain asbestos and be treated as ACMs or be sampled immediately upon discovery and prior to disturbance for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the Asbestos Assessment, the results of laboratory analysis, and our findings and observations, ECS presents the following recommendations.

5.1 Asbestos-Containing Materials

Based on the laboratory analysis of the bulk samples collected during the assessment, the following materials were reported to contain asbestos:

- **White Brick Pattern Linoleum & Mastic: (Sample ID 09-01,02,03)**
- **Wood Pattern Linoleum Tile & Mastic: (Sample ID 11-01,02,03)**
- **Beige 12" x 12" Vinyl Floor Tile: (Sample ID 15-01,02,03)**
- **Decorative Patterned Vinyl Floor Tile: (Sample ID 16-01,02,03)**
- **Textured Ceiling: (Sample ID 21-01,02,03,04,05)**

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. Notification to the SC-DHEC is required for demolitions including move-off of a facility and the intentional burning of a facility within South Carolina. Notification is also required for renovations that include the disturbing or removal of regulated quantities of RACM; it is also required for planned renovations to occur at the same facility or project during a year's time. Each structure or facility must have a separate notification. Notification is required for facilities which do not contain asbestos as well. The starting date for demolition or renovation must be at least 10 working days from the date of submission of a complete notification to SCDHEC. ECS recommends abating asbestos containing materials in the structure prior to disturbance. Based on the square footage of friable asbestos containing material, the SCDHEC will require a project design for this abatement project.

ECS recommends that a project specification be prepared to delineate and quantify known and suspect hazardous and regulated materials in the buildings and to outline proper procedures for the abatement. This will help protect the owner's liability in better defining the scope of work and contractors' roles and responsibilities in the abatement process and holding the contractor accountable for the performance of the project. The specification typically defines the Contractor's scope of work and outline requirements and procedures that must be followed for the project. The intent of the specification is to give performance requirements for the Contractor so that the project can be completed safely and in compliance with applicable federal and state regulations. Typically, the specification document serves as part of the site owner's contract with the contractor.

ECS recommends where a material type has been identified as asbestos containing that other materials with similar color, texture, age and size throughout the building's interior and exterior be assumed to contain asbestos. Please refer to Section 4.1 for a complete list of building materials that were reported positive for asbestos and to Section 4.2 for materials that were assumed to contain asbestos.

If ACMs are to be removed, it is recommended that an industrial hygienist monitor the project. This involves collecting air samples from within and outside abatement work areas to monitor the asbestos abatement contractor's work practices over the course of the project. The industrial hygienist should evaluate if the asbestos abatement work is in accordance with project specifications, U.S. EPA regulation 40 CFR Part 61-National Emission Standards for Hazardous Air Pollutants Subpart M: National Emission Standard for Asbestos, and U.S. Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.1101 – Asbestos in Construction. The industrial hygienist should assess each work area to monitor the removal of ACMs. Only after the industrial hygienist has determined the identified ACMs have been removed should final clearance air samples be collected (if necessary).

6.0 LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

Our recommendations are in part based on federal, state, and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies, any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

Appendix I: Figures



**ASBESTOS ASSESSMENT
SITE LOCATION**
919 West 5th North Street,
Summerville, South Carolina
29483
ECS Project No. 49-11848

Source: Dorchester
County GIS





ASBESTOS ASSESSMENT

1st FLOOR SAMPLE LOCATIONS

919 West 5th North Street,
Summerville, South Carolina
29483

ECS Project No. 49-11848

LEGEND:

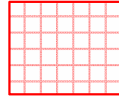
XX-XX Sample Negative

▲ Sample Positive

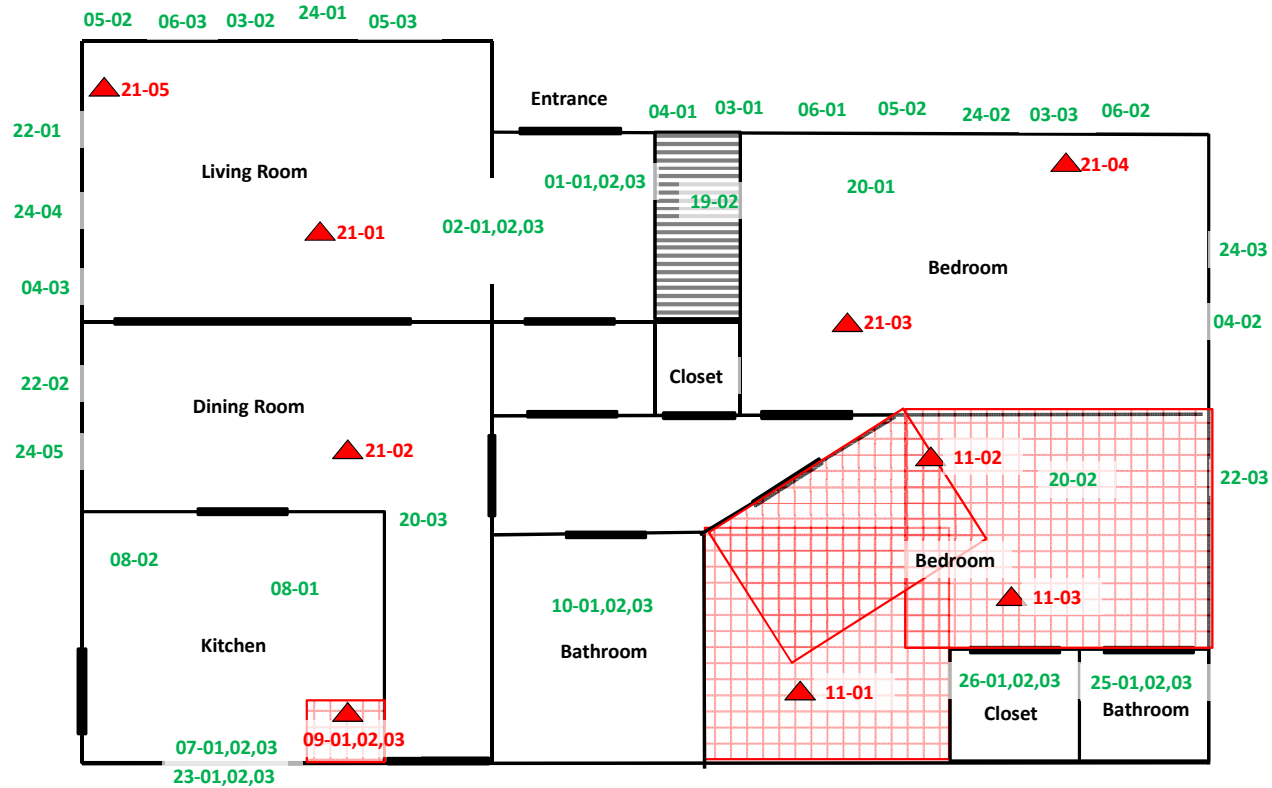
Approximate Area of
Positive Material

NOTES:

- Not to scale
- Samples Color Coded



It is important to note that the textured ceiling throughout the home, primarily the first floor: (Sample ID 21-01,02,03,04,05) was also reported to contain asbestos





ASBESTOS ASSESSMENT

2nd FLOOR SAMPLE LOCATIONS

919 West 5th North Street,
Summerville, South Carolina
29483

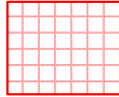
ECS Project No. 49-11848

LEGEND:

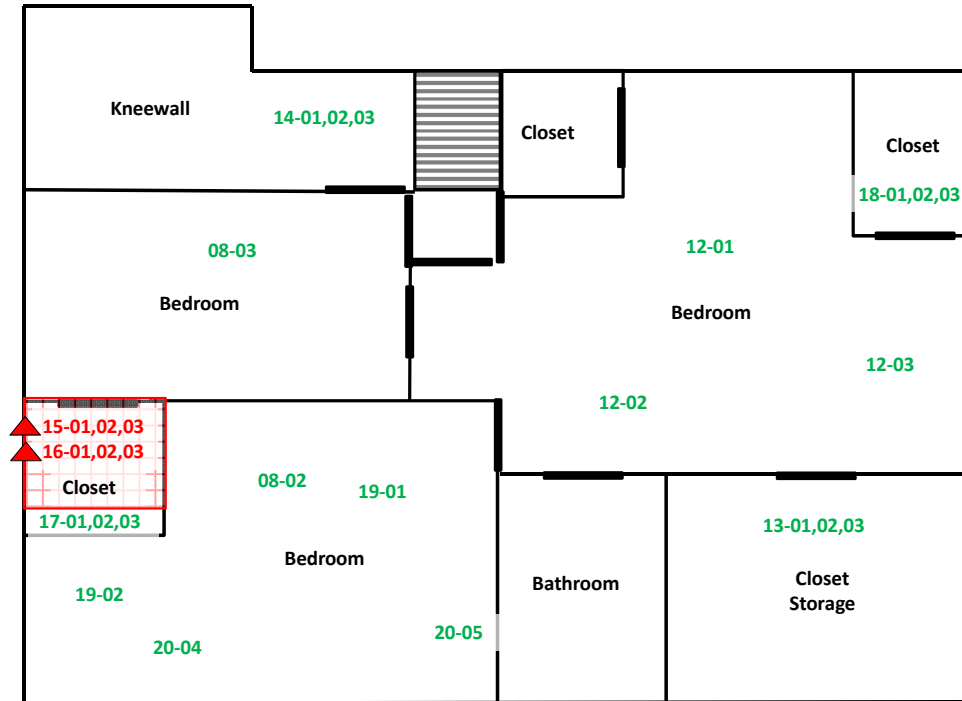
- XX-XX Sample Negative
- ▲ Sample Positive
- Approximate Area of Positive Material

NOTES:

- Not to scale
- Samples Color Coded



It is important to note that the textured ceiling throughout the home, primarily the first floor: (Sample ID 21-01,02,03,04,05) was also reported to contain asbestos



Appendix II: Site Photographs



1 - Image of the subject property



2 - Image of detached shed



3 - Image of white brick pattern linoleum & mastic: (Sample ID 09-01,02,03)



4 - Image of beige 12" x 12" Vinyl Floor Tile (VFT) & Mastic: (Sample ID 15-01,02,03)



5 - Image of Decorative Patterned VFT & Mastic (Sample ID 16-01,02,03)



6 - Image of brown & black roof shingle



7 - Image of black roof tar



8 - Image of brown roof tar



9 - Image of window glazing



10 - Image of window/door glazing



11 - Image of brown square pattern linoleum & mastic



12 - Image of beige sink caulking



13 - Image of white square pattern linoleum & mastic



14 - Image of white & blue square pattern linoleum & mastic



15 - Image of white 3" x 3" square pattern linoleum & mastic



16 - Image of black closet mastic



17 - Image of beige polygon linoleum



18 - Image of Joint Compound



19 - Image of Drywall



20 - Image of Siding Felt Paper



21 - Image of Brown Kitchen Wall Mastic



22 - Image of CMU Block Filler



23 - Image of Tan 12" x 12" Linoleum & Mastic



24 - Image of Dark Grey Square Patterned Linoleum

Appendix III: Asbestos Bulk Sample Results



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: ECS Carolinas, LLP
3820 Faber Place
North Charleston, SC 29405

Attn: Kurt Gauthier

Lab Order ID: 71945053

Analysis ID: 71945053_PLM

Date Received: 6/25/2020

Date Reported: 6/26/2020

Project: 10848: 919 W 5th North St.

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
01-01	Black roof tar	None Detected	70% Cellulose	30% Other	Black, Brown Fibrous Heterogeneous
71945053PLM_1					Dissolved
01-02	Black roof tar	None Detected	70% Cellulose	30% Other	Black, Silver Fibrous Homogeneous
71945053PLM_2					Dissolved
01-03	Black roof tar	Not Analyzed			
71945053PLM_3	TEM				
02-01	Brown roof tar	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
71945053PLM_4					Dissolved
02-02	Brown roof tar	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
71945053PLM_5					Dissolved
02-03	Brown roof tar	Not Analyzed			
71945053PLM_6	TEM				
03-01 - A	Black shingle & felt paper	None Detected	15% Fiber Glass	85% Other	Black, Red Fibrous Heterogeneous
71945053PLM_7	shingle				Dissolved
03-01 - B	Black shingle & felt paper	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
71945053PLM_85	felt				Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Aquila Johnson (54)

Anna Roseman (42)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: ECS Carolinas, LLP
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Analysis ID: 71945053_PLM
Date Received: 6/25/2020
Date Reported: 6/26/2020

Project: 10848: 919 W 5th North St.

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
03-02 - A	Black shingle & felt paper	None Detected	15% Fiber Glass	85% Other	Black, Red Fibrous Heterogeneous
71945053PLM_8	shingle				Dissolved
03-02 - B	Black shingle & felt paper	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
71945053PLM_86	felt				Dissolved
03-03 - A	Black shingle & felt paper	Not Analyzed			
71945053PLM_9	shingle-TEM				
03-03 - B	Black shingle & felt paper	Not Analyzed			
71945053PLM_87	felt-TEM				
04-01	Brown shingle	None Detected	15% Fiber Glass	85% Other	Black, Red Fibrous Heterogeneous
71945053PLM_10					Dissolved
04-02	Brown shingle	None Detected	15% Fiber Glass	85% Other	Black, Red Fibrous Heterogeneous
71945053PLM_11					Dissolved
04-03	Brown shingle	Not Analyzed			
71945053PLM_12	TEM				
05-01	Exterior window/door caulking	None Detected		100% Other	White Non Fibrous Homogeneous
71945053PLM_13					Ashed

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Bulk Asbestos Analysis

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Date Received: 6/25/2020

Date Reported: 6/26/2020

Project: 10848: 919 W 5th North St.

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
05-02	Exterior window/door caulking	None Detected		100% Other	White Non Fibrous Homogeneous
71945053PLM_14					Ashed
05-03	Exterior window/door caulking	Not Analyzed			
71945053PLM_15	TEM				
06-01	Window glazing	None Detected		100% Other	White, Grayish Non Fibrous Homogeneous
71945053PLM_16					Ashed
06-02	Window glazing	None Detected		100% Other	White, Grayish Non Fibrous Homogeneous
71945053PLM_17					Ashed
06-03	Window glazing	None Detected		100% Other	White, Grayish Non Fibrous Homogeneous
71945053PLM_18					Ashed
07-01	Beige sink caulking	None Detected		100% Other	White, Beige Non Fibrous Homogeneous
71945053PLM_19					Ashed
07-02	Beige sink caulking	None Detected		100% Other	White, Beige Non Fibrous Homogeneous
71945053PLM_20					Ashed
07-03	Beige sink caulking	Not Analyzed			
71945053PLM_21	TEM				

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Project: 10848: 919 W 5th North St.

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
08-01	Brown sq pattern linoleum & mastic	None Detected		100% Other	Tan, White Non Fibrous Homogeneous
71945053PLM_22	self stick tile/mastic-inseparable				Dissolved
08-02	Brown sq pattern linoleum & mastic	None Detected		100% Other	Tan, White Non Fibrous Homogeneous
71945053PLM_23	self stick tile/mastic-inseparable				Dissolved
08-03	Brown sq pattern linoleum & mastic	Not Analyzed			
71945053PLM_24	self stick tile/mastic-inseparable-TEM				
09-01	White brick pattern linoleum & mastic	7% Chrysotile		93% Other	Grayish, Yellow Non Fibrous Heterogeneous
71945053PLM_25	self stick tile/mastic-inseparable				Dissolved
09-02	White brick pattern linoleum & mastic	Not Analyzed			
71945053PLM_26					
09-03	White brick pattern linoleum & mastic	Not Analyzed			
71945053PLM_27					
10-01	White sq pattern linoleum	None Detected	35% Cellulose	65% Other	Grayish Fibrous Heterogeneous
71945053PLM_28	linoleum only				Teased, Dissolved
10-02	White sq pattern linoleum	None Detected	35% Cellulose	65% Other	Grayish Fibrous Heterogeneous
71945053PLM_29	linoleum only				Teased, Dissolved

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Aquila Johnson (54)
Anna Roseman (42)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: ECS Carolinas, LLP
3820 Faber Place
North Charleston, SC 29405

Attn: Kurt Gauthier

Lab Order ID: 71945053

Analysis ID: 71945053_PLM

Date Received: 6/25/2020

Date Reported: 6/26/2020

Project: 10848: 919 W 5th North St.

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
10-03	White sq pattern linoleum	Not Analyzed			
71945053PLM_30	linoleum only-TEM				
11-01 - A	Wood pattern linoleum & mastic	None Detected		100% Other	Tan, Black Non Fibrous Homogeneous
71945053PLM_31	self stick tile				Dissolved
11-01 - B	Wood pattern linoleum & mastic	None Detected		100% Other	Transparent Non Fibrous Homogeneous
71945053PLM_88	mastic				Dissolved
11-02 - A	Wood pattern linoleum & mastic	None Detected		100% Other	Tan, White Non Fibrous Homogeneous
71945053PLM_32	self stick tile				Dissolved
11-02 - B	Wood pattern linoleum & mastic	None Detected		100% Other	Transparent Non Fibrous Homogeneous
71945053PLM_89	mastic				Dissolved
11-03 - A	Wood pattern linoleum & mastic	Not Analyzed			
71945053PLM_33	self stick tile-TEM				
11-03 - B	Wood pattern linoleum & mastic	Not Analyzed			
71945053PLM_90	mastic-TEM				
12-01	White & blue pattern linoleum	None Detected	35% Cellulose	65% Other	White, Grayish Fibrous Heterogeneous
71945053PLM_34	linoleum only				Teased, Dissolved

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Anna Roseman (42)

Analyst

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Bulk Asbestos Analysis

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EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
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Customer: ECS Carolinas, LLP
3820 Faber Place
North Charleston, SC 29405

Attn: Kurt Gauthier

Lab Order ID: 71945053

Analysis ID: 71945053_PLM

Date Received: 6/25/2020

Date Reported: 6/26/2020

Project: 10848: 919 W 5th North St.

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
12-02	White & blue pattern linoleum	None Detected	35% Cellulose	65% Other	White, Grayish Fibrous Heterogeneous
71945053PLM_35	linoleum only				Teased, Dissolved
12-03	White & blue pattern linoleum	Not Analyzed			
71945053PLM_36	linoleum only-TEM				
13-01	White 3"x3" sq pattern linoleum	None Detected	35% Cellulose	65% Other	White, Grayish Fibrous Heterogeneous
71945053PLM_37	linoleum only				Teased, Dissolved
13-02	White 3"x3" sq pattern linoleum	None Detected	35% Cellulose	65% Other	White, Grayish Fibrous Heterogeneous
71945053PLM_38	linoleum only				Teased, Dissolved
13-03	White 3"x3" sq pattern linoleum	Not Analyzed			
71945053PLM_39	linoleum only-TEM				
14-01	Beige polygon linoleum	None Detected	35% Cellulose	65% Other	Cream, Grayish Fibrous Heterogeneous
71945053PLM_40	linoleum only				Teased, Dissolved
14-02	Beige polygon linoleum	None Detected	35% Cellulose	65% Other	Cream, Grayish Fibrous Heterogeneous
71945053PLM_41	linoleum only				Teased, Dissolved
14-03	Beige polygon linoleum	Not Analyzed			
71945053PLM_42	linoleum only-TEM				

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Bulk Asbestos Analysis

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Customer: ECS Carolinas, LLP
3820 Faber Place
North Charleston, SC 29405

Attn: Kurt Gauthier

Lab Order ID: 71945053
Analysis ID: 71945053_PLM
Date Received: 6/25/2020
Date Reported: 6/26/2020

Project: 10848: 919 W 5th North St.

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
15-01 - A	Beige 12x12 VFT & mastic	2% Chrysotile		98% Other	Grayish Non Fibrous Homogeneous
71945053PLM_43	tile				Dissolved
15-01 - B	Beige 12x12 VFT & mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71945053PLM_91	mastic				Dissolved
15-02 - A	Beige 12x12 VFT & mastic	Not Analyzed			
71945053PLM_44	tile				
15-02 - B	Beige 12x12 VFT & mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71945053PLM_92	mastic				Dissolved
15-03 - A	Beige 12x12 VFT & mastic	Not Analyzed			
71945053PLM_45	tile				
15-03 - B	Beige 12x12 VFT & mastic	Not Analyzed			
71945053PLM_93	mastic-TEM				
16-01	Decorative patterned VFT & mastic	2% Chrysotile		98% Other	Tan Non Fibrous Heterogeneous
71945053PLM_46	tile only				Dissolved
16-02	Decorative patterned VFT & mastic	Not Analyzed			
71945053PLM_47					

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Bulk Asbestos Analysis

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EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: ECS Carolinas, LLP
3820 Faber Place
North Charleston, SC 29405

Attn: Kurt Gauthier

Lab Order ID: 71945053
Analysis ID: 71945053_PLM
Date Received: 6/25/2020
Date Reported: 6/26/2020

Project: 10848: 919 W 5th North St.

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
16-03	Decorative patterned VFT & mastic	Not Analyzed			
71945053PLM_48					
17-01 - A	Blue VFT & mastic	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71945053PLM_49	tile				Dissolved
17-01 - B	Blue VFT & mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71945053PLM_94	mastic				Dissolved
17-02 - A	Blue VFT & mastic	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71945053PLM_50	tile				Dissolved
17-02 - B	Blue VFT & mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71945053PLM_95	mastic				Dissolved
17-03 - A	Blue VFT & mastic	Not Analyzed			
71945053PLM_51	tile-TEM				
17-03 - B	Blue VFT & mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71945053PLM_96	mastic				Dissolved
18-01	Black closet mastic	None Detected		100% Other	Black Non Fibrous Homogeneous
71945053PLM_52					Dissolved

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Analyst

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Bulk Asbestos Analysis

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Customer: ECS Carolinas, LLP
3820 Faber Place
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Lab Order ID: 71945053

Analysis ID: 71945053_PLM

Date Received: 6/25/2020

Date Reported: 6/26/2020

Project: 10848: 919 W 5th North St.

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
18-02	Black closet mastic	None Detected		100% Other	Black Non Fibrous Homogeneous
71945053PLM_53					Dissolved
18-03	Black closet mastic	Not Analyzed			
71945053PLM_54	TEM				
19-01	Drywall	None Detected	15% Cellulose	85% Other	Gray Fibrous Homogeneous
71945053PLM_55					Dissolved
19-02	Drywall	None Detected	15% Cellulose	85% Other	Gray Fibrous Homogeneous
71945053PLM_56					Dissolved
19-03	Drywall	None Detected	15% Cellulose	85% Other	Gray Fibrous Homogeneous
71945053PLM_57					Dissolved
20-01	Joint compound	None Detected		100% Other	White Non Fibrous Heterogeneous
71945053PLM_58	mostly paint				Dissolved
20-02	Joint compound	None Detected		100% Other	White Non Fibrous Heterogeneous
71945053PLM_59	mostly paint				Dissolved
20-03	Joint compound	None Detected		100% Other	White Non Fibrous Heterogeneous
71945053PLM_60	mostly paint				Dissolved

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Bulk Asbestos Analysis

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3820 Faber Place
North Charleston, SC 29405

Attn: Kurt Gauthier

Lab Order ID: 71945053

Analysis ID: 71945053_PLM

Date Received: 6/25/2020

Date Reported: 6/26/2020

Project: 10848: 919 W 5th North St.

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
20-04	Joint compound	None Detected		100% Other	White Non Fibrous Heterogeneous
71945053PLM_61	mostly paint				Dissolved
20-05	Joint compound	None Detected		100% Other	White Non Fibrous Heterogeneous
71945053PLM_62	mostly paint				Dissolved
21-01	Textured ceiling	None Detected		100% Other	White Non Fibrous Heterogeneous
71945053PLM_63	mostly paint				Dissolved
21-02	Textured ceiling	2% Chrysotile		98% Other	Tan, White Non Fibrous Heterogeneous
71945053PLM_64					Dissolved
21-03	Textured ceiling	Not Analyzed			
71945053PLM_65					
21-04	Textured ceiling	Not Analyzed			
71945053PLM_66					
21-05	Textured ceiling	Not Analyzed			
71945053PLM_67					
22-01	Felt paper under wood siding	None Detected	90% Cellulose	10% Other	Black Fibrous Homogeneous
71945053PLM_68					Dissolved

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Aquila Johnson (54)

Anna Roseman (42)

Analyst

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



Customer: ECS Carolinas, LLP
3820 Faber Place
North Charleston, SC 29405

Attn: Kurt Gauthier

Lab Order ID: 71945053
Analysis ID: 71945053_PLM
Date Received: 6/25/2020
Date Reported: 6/26/2020

Project: 10848: 919 W 5th North St.

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
22-02	Felt paper under wood siding	None Detected	90% Cellulose	10% Other	Black Fibrous Homogeneous
71945053PLM_69					Dissolved
22-03	Felt paper under wood siding	Not Analyzed			
71945053PLM_70	TEM				
23-01	Brown kitchen wall mastic	None Detected		100% Other	Brown Non Fibrous Homogeneous
71945053PLM_71					Dissolved
23-02	Brown kitchen wall mastic	None Detected		100% Other	Brown Non Fibrous Homogeneous
71945053PLM_72					Dissolved
23-03	Brown kitchen wall mastic	Not Analyzed			
71945053PLM_73	TEM				
24-01	CMU black filler	None Detected		100% Other	Gray, White Non Fibrous Heterogeneous
71945053PLM_74					Crushed
24-02	CMU black filler	None Detected		100% Other	Gray, White Non Fibrous Heterogeneous
71945053PLM_75					Crushed
24-03	CMU black filler	None Detected		100% Other	Gray, White Non Fibrous Heterogeneous
71945053PLM_76					Crushed

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Anna Roseman (42)

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Bulk Asbestos Analysis

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EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E,
App.E



NVLAP LAB CODE 200644-0



Customer: ECS Carolinas, LLP
3820 Faber Place
North Charleston, SC 29405

Attn: Kurt Gauthier

Lab Order ID: 71945053

Analysis ID: 71945053_PLM

Date Received: 6/25/2020

Date Reported: 6/26/2020

Project: 10848: 919 W 5th North St.

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
24-04	CMU black filler	None Detected		100% Other	Gray, White Non Fibrous Heterogeneous
71945053PLM_77					Crushed
24-05	CMU black filler	None Detected		100% Other	Gray, White Non Fibrous Heterogeneous
71945053PLM_78					Crushed
25-01	Dark grey sq pattern linoleum	None Detected	20% Fiber Glass	80% Other	Gray Fibrous Homogeneous
71945053PLM_79	linoleum only				Ashed
25-02	Dark grey sq pattern linoleum	None Detected	20% Fiber Glass	80% Other	Gray Fibrous Homogeneous
71945053PLM_80	linoleum only				Ashed
25-03	Dark grey sq pattern linoleum	Not Analyzed			
71945053PLM_81	TEM				
26-01	Tan 12x12 linoleum tile & mastic	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71945053PLM_82					Dissolved
26-02	Tan 12x12 linoleum tile & mastic	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71945053PLM_83					Dissolved
26-03	Tan 12x12 linoleum tile & mastic	Not Analyzed			
71945053PLM_84	TEM				

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Anna Roseman (42)

Analyst

Approved Signatory



Scientific Analytical Institute
 4604 Dundas Dr. Greensboro, NC 27407
 Phone: 336.292.3888 Fax: 336.292.3313
 www.sailab.com lab@sailab.com

Lab Use Only
 Lab Order ID: 11945053
 Client Code: _____

Company Contact Information	
Company: ECS Southeast	Contact: Kurt Gauthier
Address: 3820 Faber Place	Phone <input type="checkbox"/> :
Dr. S-200 N. Charleston	Fax <input type="checkbox"/> :
SC 29405	Email <input checked="" type="checkbox"/> : Kgauthier@ecslimited.com

Billing/Invoice Information	Turn Around Times	
Company: SAME ↑	90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
Contact:	3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
Address:	6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
	12 Hours <input type="checkbox"/>	120 Hours <input type="checkbox"/>
	24 Hours <input checked="" type="checkbox"/>	144+ Hours <input type="checkbox"/>

PLM & TEM

PO Number:
Project Name/Number: 10848: 919 W 5 th North St.

Run per SC DHEC Regulations

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input checked="" type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input checked="" type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

Sample ID #		Volume/Area	Comments
01-01.02.05	Black roof tar	80 SF	
02-01.02.05	Brown roof tar	40 SF	
03-01.02.05	Black shingle & Felt paper	11200 SF	
04-01.02.05	Brown shingle	600 SF	
05-01.02.05	Exterior window/door caulking	60 LF	
06-01.02.05	Window glazing	30 LF	
07-01.02.05	Beige sink caulking	10 LF	Sink
08-01.02.05	Brown sq pattern linoleum+mastic	340 SF	upstairs & kitchen
09-01.02.05	White Brick pattern linoleum+mastic	6 SF	Kitchen
10-01.02.05	White sq pattern linoleum	30 SF	1 st Fl bath
11-01.02.05	Wood pattern linoleum+mastic	110 SF	1 st Fl back left BR

Total # of Samples 84

Relinquished by	Date/Time	Received by	Date/Time
	6/24/20		6/25
	4:30pm		12pm

Accepted ☒

Rejected ☐

Page 1 of 3
 A-F-017 EXP: 12-1-13



Scientific Analytical Institute
4604 Dundas Dr. Greensboro, NC 27407
Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 11945053
Client Code: _____

Company Contact Information	
Company:	Contact:
Address:	Phone <input type="checkbox"/> :
	Fax <input type="checkbox"/> :
	Email <input type="checkbox"/> :

Billing/Invoice Information	Turn Around Times	
Company:	90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
Contact:	3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
Address:	6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
	12 Hours <input type="checkbox"/>	120 Hours <input type="checkbox"/>
	24 Hours <input type="checkbox"/>	144+ Hours <input type="checkbox"/>

PO Number:
Project Name/Number: 10848-919 W 5th N Street

★ ONLY run mastic once as it's the same for 15, 16 & 17 ★

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/>	TWA (PTA) <input type="checkbox"/>
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

Sample ID #		Volume/Area	Comments
12-01.02.03	White & Blue pattern linoleum	200 SF	Upstairs BR
13-01.02.03	White 3"x3" sq pattern linoleum	80 SF	Upstairs BR Closet
14-01.02.03	Beige Polygon linoleum	60 SF	Kneewall section
15-01.02.03	Beige 12x12 VFT + mastic	40 SF	and Fl right closet
16-01.02.03	Decorative Patterned VFT + mastic	40 SF	" "
17-01.02.03	Blue VFT + mastic	30 SF	" "
18-01.02.03	Black Closet mastic	10 LF	2nd Fl Left closet
19-01.02.03	Drywall	1800 SF	
20-01.02.03	Joint Compound	1800 SF	
21-01.02.03, 04, 05	Textured ceiling	1600 SF	
22-01.02.03	Felt paper under wood siding	1100 SF	

Total # of Samples _____

Relinquished by	Date/Time	Received by	Date/Time
	4:30pm		
	6/24/20		



Scientific Analytical Institute
4604 Dundas Dr. Greensboro, NC 27407
Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 11945053
Client Code: _____

Company Contact Information

Company:	Contact:
Address:	Phone <input type="checkbox"/> :
	Fax <input type="checkbox"/> :
	Email <input type="checkbox"/> :

Billing/Invoice Information

Company:	90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
Contact:	3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
Address:	6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
	12 Hours <input type="checkbox"/>	120 Hours <input type="checkbox"/>
	24 Hours <input type="checkbox"/>	144+ Hours <input type="checkbox"/>

PO Number:

Project Name/Number: 10848-919 W 5th N Street

Asbestos Test Types

PLM EPA 600/R-93/116 (PLM)	<input type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/>	TWA (PTA) <input type="checkbox"/>
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

Sample ID #		Volume/Area	Comments
23-01.02.03	^{Brown} Green kitchen wall mastic	10 SF	
24-01.02.03	^{04.10} CMU Black filler	2,000 SF	1 st Fl
25-01.02.03	Dark Grey sq pattern linoleum	28 SF	1 st Fl side Bath
26-01.02.03	Tan 12x12 linoleum tile + mastic	30 SF	1 st Fl side closet

Total # of Samples _____

Relinquished by	Date/Time	Received by	Date/Time



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: ECS Carolinas, LLP
3820 Faber Place
North Charleston, SC 29405

Attn: Kurt Gauthier

Lab Order ID: 71945120

Project: 10848: 919 W 5th North St

Analysis ID: 71945120_TB

Date Received: 6/26/2020

Date Reported: 6/29/2020

Date Amended: 6/29/2020

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
01-03	Black roof tar	82%	-	None Detected	
71945120TBS_1					
02-03	Brown roof tar	69%	-	None Detected	
71945120TBS_2					
03-03-A	Black shingle & felt paper	23%	-	None Detected	
71945120TBS_3	shingle				
03-03-A	Black shingle & felt paper	97%	-	None Detected	
71945120TBS_4	felt				
04-03	Brown shingle	24%	-	None Detected	
71945120TBS_5					
05-03	Exterior window/door caulking	28%	-	None Detected	
71945120TBS_6					

Disclaimer: This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government.

Heather Davide (21)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Approved Signatory



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: ECS Carolinas, LLP
3820 Faber Place
North Charleston, SC 29405

Attn: Kurt Gauthier

Lab Order ID: 71945120

Project: 10848: 919 W 5th North St

Analysis ID: 71945120_TB

Date Received: 6/26/2020

Date Reported: 6/29/2020

Date Amended: 6/29/2020

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos		LCL-UCL
Lab Sample ID	Lab Notes			(Wt. %)		(Wt. %)
07-03	Beige sink caulking	42%	-	None Detected		
71945120TBS_7						
08-03	Brown sq pattern linoleum & mastic	12%	-	None Detected		
71945120TBS_8						
10-03	White sq pattern linoleum	51%	-	None Detected		
71945120TBS_9						
11-03-A	Wood pattern linoleum & mastic	13%	-	1.7 %	Chrysotile	1.6% - 1.9%
71945120TBS_10	self stick tile					
11-03-A	Wood pattern linoleum & mastic	72%	-	2.8 %	Chrysotile	2.5% - 3.1%
71945120TBS_11	mastic					
12-03	White & blue pattern linoleum	47%	-	None Detected		
71945120TBS_12						

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Analyst

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Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: ECS Carolinas, LLP
3820 Faber Place
North Charleston, SC 29405

Attn: Kurt Gauthier

Lab Order ID: 71945120

Project: 10848: 919 W 5th North St

Analysis ID: 71945120_TB

Date Received: 6/26/2020

Date Reported: 6/29/2020

Date Amended: 6/29/2020

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
13-03	White 3"x3" sq pattern linoleum	52%	-	None Detected	
71945120TBS_13					
14-03	Beige polygon linoleum	54%	-	None Detected	
71945120TBS_14					
15-03-B	Beige 12x12 VFT & mastic	63%	-	None Detected	
71945120TBS_15	mastic				
17-03-A	Blue VFT & mastic	13%	63%	None Detected	
71945120TBS_16	tile				
18-03	Black closet mastic	72%	-	None Detected	
71945120TBS_17					
22-03	Felt paper under wood siding	97%	-	None Detected	
71945120TBS_18					

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Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: ECS Carolinas, LLP
3820 Faber Place
North Charleston, SC 29405

Attn: Kurt Gauthier

Lab Order ID: 71945120

Project: 10848: 919 W 5th North St

Analysis ID: 71945120_TB

Date Received: 6/26/2020

Date Reported: 6/29/2020

Date Amended: 6/29/2020

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
23-03	Brown kitchen wall mastic	87%	-	None Detected	
71945120TBS_19					
25-03	Grey Linoleum	51%	-	None Detected	
71945120TBS_20					
26-03	Sel Stick Tile	25%	39%	None Detected	
71945120TBS_21					

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Heather Davide (21)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407

Approved Signatory

(336) 292-3888



Scientific Analytical Institute
 4604 Dundas Dr. Greensboro, NC 27407
 Phone: 336.292.3888 Fax: 336.292.3313
 www.sailab.com lab@sailab.com

Lab Use Only: 11945053
 Lab Order ID: 11945053
 Client Code: 71945120

Company Contact Information	
Company: <u>ECS Southeast</u>	Contact: <u>Kurt Gauthier</u>
Address: <u>3820 Faber Place</u>	Phone <input type="checkbox"/> :
<u>Dr. S-200 N. Charleston</u>	Fax <input type="checkbox"/> :
<u>SC 29405</u>	Email <input checked="" type="checkbox"/> : <u>Kgauthier@ecslimited.com</u>

Billing/Invoice Information	Turn Around Times	
Company: <u>SAI SE ↑</u>	90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
Contact:	3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
Address:	6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
	12 Hours <input type="checkbox"/>	120 Hours <input type="checkbox"/>
	24 Hours <input checked="" type="checkbox"/>	144 Hours <input type="checkbox"/>

PO Number:
Project Name/Number: <u>10848: 919 W 5th North St</u>

Run per SC DHEC Regulations

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input checked="" type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/>	TWA (PTA) <input type="checkbox"/>
TEM AHRA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input checked="" type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other:	<input type="checkbox"/>

Sample ID #		Volume/Area	Comments
01-01.02.03	Black roof tar	80 SF	
02-01.02.03	Brown roof tar	40 SF	
03-01.02.03	Black shingle & Felt paper	1200 SF	
04-01.02.03	Brown shingle	600 SF	
05-01.02.03	Exterior window/door caulking	60 LF	
06-01.02.03	Window glazing	30 LF	
07-01.02.03	Beige sink caulking	10 LF	Sink
08-01.02.03	Brown sq pattern linoleum+mastic	340 SF	upstairs & kitchen
09-01.02.03	White Brick pattern linoleum+mastic	6 SF	Kitchen
10-01.02.03	White sq pattern linoleum	30 SF	1 st Fl bath
11-01.02.03	Wood pattern linoleum+mastic	110 SF	1 st Fl back left

Total # of Samples 84

Relinquished by	Date/Time	Received by	Date/Time
<u>[Signature]</u>	6/24/20	<u>[Signature]</u>	6/25
	4:30 PM		12 PM

Accepted ☒

Rejected ☐

Page 1 of 3
 A-F-017 EXP: 12-1-13



Scientific Analytical Institute
4604 Dundas Dr. Greensboro, NC 27407
Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 11945053
Client Code: 71945120

Company Contact Information	
Company:	Contact:
Address:	Phone <input type="checkbox"/> :
	Fax <input type="checkbox"/> :
	Email <input type="checkbox"/> :

Billing/Invoice Information	Turn Around Times	
Company:	90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
Contact:	3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
Address:	6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
	12 Hours <input type="checkbox"/>	120 Hours <input type="checkbox"/>
	24 Hours <input type="checkbox"/>	144 Hours <input type="checkbox"/>

PO Number:
Project Name/Number: 10848-919 W 5th N Street

★ ONLY run mastic once as it's the same for 15, 16 & 17 ★

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/>	TWA (PTA) <input type="checkbox"/>
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other:	<input type="checkbox"/>

Sample ID #		Volume/Area	Comments
12-01.02.03	White & Blue pattern linoleum	200 SF	Upstairs BR
13-01.02.03	White 3"x3" sq pattern linoleum	80 SF	Upstairs BR Closet
14-01.02.03	Beige Polygon linoleum	60 SF	Kneewall section
15-01.02.03	Beige 12x12 VFT + mastic	40 SF	2nd Fl Right Closet
16-01.02.03	Decorative Patterned VFT + mastic	40 SF	" "
17-01.02.03	Blue VFT + mastic	30 SF	" "
18-01.02.03	Black Closet mastic	10 LF	2nd Fl Left closet
19-01.02.03	Drywall	1800 SF	
20-01.02.03	Joint Compound	1800 SF	
21-01.02.03	Textured ceiling	1600 SF	
22-01.02.03	Felt paper under wood siding	1100 SF	

Total # of Samples

Relinquished by	Date/Time	Received by	Date/Time
	4:30 PM		
	6/24/20		



Scientific Analytical Institute
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Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 11945053
Client Code: 71945120

Company Contact Information	
Company:	Contact:
Address:	Phone <input type="checkbox"/> :
	Fax <input type="checkbox"/> :
	Email <input type="checkbox"/> :

Billing/Invoice Information	Turn Around Times	
Company:	90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
Contact:	3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
Address:	6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
	12 Hours <input type="checkbox"/>	120 Hours <input type="checkbox"/>
	24 Hours <input type="checkbox"/>	144 Hours <input type="checkbox"/>

PO Number:
Project Name/Number: 10848-919 W 5 th N Street

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/>	TWA (PTA) <input type="checkbox"/>
TEM AHRA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

Sample ID #		Volume/Area	Comments
23-01.02.03	Green Brown Kitchen wall mastic	10 SF	
24-01.02.03	CMU Block filler	2000 SF	1 st Fl
25-01.02.03	Dark Grey sq pattern linoleum	28 SF	1 st Fl side Bath
26-01.02.03	Tan 12x12 linoleum tile + mastic	30 SF	1 st Fl side closet

Total # of Samples _____

Relinquished by	Date/Time	Received by	Date/Time

Appendix IV: Certifications/ Licenses

SCDHEC ISSUED
Asbestos ID Card

Justin Roth



CONSULTBI

BI-01189

Expiration Date:
09/04/20

SCDHEC ISSUED

Asbestos ID Card

Kurt Gauthier



CONSULTBI
CONSULTPD

BI-01787
PD-00209

Expire Date:

02/02/21
03/29/20