REQUEST FOR BIDS ASBESTOS PROJECT DESIGN, ABATEMENT & AIR MONITORING ITB# 22-24/25 September 12, 2024

BACKGROUND:

Sumter County and the City of Sumter have received a grant from the U.S. Department of Housing and Urban Development to demolish privately owned vacant, dilapidated houses.

The County and City are requesting bids from SCDHEC-licensed firms to abate the asbestos contained in these structures in accordance with all SCDHEC regulations

SCOPE OF WORK:

ABATEMENT PLAN (PROJECT DESIGN)

The "Asbestos Project Design" shall be a written plan prepared by a certified asbestos project designer specifying how the asbestos abatement project will be performed (for each house) including, but not limited to, a scope of work and technical specifications. The project design must comply with 40 CFR 763.90 (9) Federal Register and SCDHEC regulations. The scope of work of this project design shall, at a minimum, address the following:

- Preparation of each asbestos-related work area
- Establishment of each containment
- Establishment of each decontamination unit and procedures for use
- Evaluation and selection of various fiber release control options
- Establishment, maintenance, and monitoring of negative air pressure within each containment
- Regulated Asbestos Containing Material (RACM) enclosure, removal, encapsulation, or repair work practices
- Visual inspection procedures for each asbestos abatement containment area
- Clean-up and final clearance procedures
- Air monitoring, including analysis documentation, and any other required record keeping
- Respiratory protection and personal protective equipment requirements
- Procedures for on-site storage, handling, and disposal of Asbestos-Containing Materials (ACM) and project waste
- Procedures for maintaining personnel licenses and training certificates on-site

The project designer shall be on SCDHEC's Asbestos Hazard Emergency Response Act (AHERA) Certified list of Project Designers. *Documentation of such certification shall be included with the submission of the quote.*

AIR MONITORING:

This request for bids also includes the procurement of air monitoring services to be provided by SCDHEC certified and licensed Asbestos Air Samplers to perform air sampling in accordance with SCDHEC Regulation #61-86.1 during asbestos abatement activities at each project site. This includes a visual clearance and Transmission Electron Microscopy (TEM) clearance with a possible variance for Phase Contrast Microscopy (PCM) monitoring since the structures are to be demolished. The quotes shall be based on a per day rate assuming a 40-hour week and no work on weekends.

SCDHEC licensed asbestos firms interested in bidding on the Asbestos Assessment, Project Design and Air Monitoring Request should return:

ATTACHMENT A - Request for Bids to:

Tony Butts City of Sumter 21 N. Main St. Sumter, SC 29150

BIDS:

Bids are due no later than October 8, 2024, by 2:00 p.m. EST.

Bids will be opened on October 8, 2024, 2:00 p.m., at the City of Sumter Purchasing Department, 21 N. Main St., Sumter, SC. A tabulation of offers (bid tab) will be made available for public record.

The lowest responsible and responsive bid will be selected. In the event of a tie bid, Sumter County procurement policy procedures shall prevail. Sumter County reserves the right to reject any or all bids. Sumter County reserves the right to waive all informalities not involving price, time, or changes in the work and to negotiate contract terms with the successful bidder.

ATTACHMENT A - REQUEST FOR BIDS

ITEM: <u>Asbestos Project Design</u>, <u>Abatement and Air Monitoring</u>. <u>All personnel must be licensed and certified according to SCDHEC guidelines</u>.

Total cost **per house** for Project Design and Abatement based on the attached asbestos surveys:

5 Harris St. Project Design and Abatement: Air Monitoring:(# of days) at(daily rate) Total for address:	= \$ \$ \$
15 Cleveland St. Project Design and Abatement: Air Monitoring:(# of days) at(daily rate) Total for address:	= \$ \$ \$
17 Cleveland St. Project Design and Abatement: Air Monitoring:(# of days) at(daily rate) Total for address:	= \$ \$ \$
17 W. Patricia Dr. Project Design and Abatement: Air Monitoring:(# of days) at(daily rate) Total for address:	= \$ \$ \$
22 W. Patricia Dr. Project Design and Abatement: Air Monitoring:(# of days) at(daily rate) Total for address:	= \$ \$ \$
28 Monroe St. Project Design and Abatement: Air Monitoring:(# of days) at(daily rate) Total for address:	= \$ \$ \$
112 E. Newberry Ave. Project Design and Abatement: Air Monitoring:(# of days) at(daily rate) Total for address:	= \$ \$ \$
253 E. Red Bay Rd. Project Design and Abatement: Air Monitoring:(# of days) at(daily rate) Total for address:	= \$ \$ \$

308 Turkey Rd. Project Design and Abatement: Air Monitoring:(# of days) at(daily rate)= Total for address:	\$ \$ \$
504 Atlantic St. Project Design and Abatement: Air Monitoring:(# of days) at(daily rate)= Total for address:	\$ \$ \$
902 Manning Ave. Project Design and Abatement: Air Monitoring:(# of days) at(daily rate)= Total for address:	\$ \$
915 Franklin St. Project Design and Abatement: Air Monitoring:(# of days) at(daily rate)= Total for address:	\$ \$ \$
1005 Belmont Dr. Project Design and Abatement: Air Monitoring:(# of days) at(daily rate)= Total for address:	\$ \$ \$
1531 Illery Rd. Project Design and Abatement: Air Monitoring:(# of days) at(daily rate)= Total for address:	\$ \$ \$
1561 Illery Rd. Project Design and Abatement: Air Monitoring:(# of days) at(daily rate)= Total for address:	\$ \$ \$
TOTAL BID:	\$

Bid Submitted by:

Company Name:			
Company Address:			
City:	State:	Zip:	
Company Telephone: ()	FAX: ()	Email:	
Name of person submitting this Quota	ation:		
Signature of person submitting this Q	uotation:		
Telephone number of person submitti	ng this Quotation: ()	
Email address of person submitting th	nis Quotation:		
Name of Air Monitoring Company: _			

Attach licenses/certification (documentation) for staff that will complete the work.

VENDOR AGREEMENTS - FORMAL INVITATIONS-TO-BID

Submittal of Sealed (Formal) Bids On the date set and at the time designated for the opening of the sealed bid, each prospective bidder is required to submit the bid deposit in the amount and form specified herein. Outside of envelope containing the **sealed** bid must be clearly marked: **Invitation-to Bid # 22-23/24 Asbestos Project Design, Abatement and Air Monitoring**. Each prospective bidder is required to complete and execute the bid form attached in this Invitation to Bid, and all information and certifications called for thereon must be furnished. Bids submitted in any other manner or which fail to furnish all information or certifications required may be summarily rejected. Bids shall be filled out legibly with all erasures, strikeovers, and corrections initialed by the person signing the bid and the bid must be manually signed. Negligence on the part of the bidder in preparing the bid confers no right for withdrawal or modification of the bid.

City of Sumter reserves the right to obtain clarification or additional information necessary to properly evaluate a bid. Failure of vendor to respond to a request for additional information or clarification could result in rejection of that vendor's bid. City of Sumter reserves the right to accept or reject any and all bids, in whole or in part, separately or together, with or without cause; to waive technicalities in submissions, to secure a project that is deemed to be in the best interest of the City. City of Sumter also reserves the right to make purchases outside of the awarded contracts where it is deemed in the best interest of the City.

Each responder, by submitting a bid to the City of Sumter a result of this Invitation-to-Bid, agrees to and acknowledges its acceptance of and agreement with the procedures outlined herein and all terms, conditions and requirements of the applicable City of Sumter Bid documents. If a vendor cannot agree to these terms, or violates these procedures, the response will be judged non-responsive and not considered. If the procedures are violated during the evaluation process or prior to the issuance of a contract by the City of Sumter, the offer of the firm in question will be void and City of Sumter will procure the goods/services in question from other eligible vendors.

At the time of the opening of bids, each responder will be presumed to have read and to be thoroughly familiar with the Documents (including all addenda). The failure or omission of any responder to examine any form, instruction or document shall in no way relieve any responder from any obligation in respect to this Invitation-to-Bid.

Responses submitted are final and complete offers by the vendor. No additions, corrections, modifications, changes or interpretations will be allowed. In the event questions arise on what is meant by an offer, the Purchasing Manager will make a determination as to the city's interpretation of the vendor's offer. If, after informing the vendor of the city's opinion, disagreement as to scope of the offer is present, the offer will be declared VOID. City of Sumter reserves the right to award proposals received on the basis of individual items, groups of items, or the entire list of items; to reject any and all proposals; and to waive any technicalities. In every case, the City reserves the right to make awards deemed to be in the best interest of the City and to negotiate further the offer determined by the City to be in the best interest of the City. Unit prices will govern over extended prices. Prices must be stated per unit and extended for the total quantity. Sales, use, or excise tax, as well as any handling and shipping charges, must be shown as separate items. The Owner reserves the right to increase or decrease the amount of work under the Contract at the unit prices quoted in the bid received from the successful responder.

Responders must clearly mark as "Confidential" each part of their offer which they consider proprietary information that could be exempt from disclosure under Section 30-4-40, Code of Laws of South Carolina, 1976

as amended (Freedom of Information Act). If any part is designated as "confidential", there must be attached to that part an explanation of how this information fits within one or more categories listed in Section 30-4-40. City of Sumter reserves the right to determine whether this information should be exempt from disclosure and no legal action may be brought against City of Sumter or its agents for its determination in this regard. Should any responder fail to perform or comply with any provision or terms and conditions of any documents referenced and made part hereof, City of Sumter may terminate this contract, in whole or in part, and may consider such failure or non compliance a breach/default of contract.

The City reserves the right to purchase any/all items or service in default on the open market. No additional responses will be considered from a firm in default until the default expenses are paid. No principals of a defaulting firm may submit a response under another organization or individual name until their previous default is settled.

RIGHT TO INCREASE OR DECREASE THE AMOUNT OF WORK: The Owner reserves the right to increase or decrease the amount of work under the Contract at the unit prices quoted in the bid received from the successful responder.

INSURANCE REQUIREMENTS:

The Responder agrees to secure at Responder's own expense all personnel necessary to carry out Responder's obligations under this Bid. Such personnel shall not be deemed to be employees of the City nor shall they or any of them have or is deemed to have any direct contractual relationship with the City. The City shall not be responsible for withholding taxes with respect to the Responder's compensation hereunder. Responder shall not hold himself out as an employee of the City, and shall have no power or authority to bind or obligate the City in any manner, except the City shall make payment to Responder for services as herein provided. Responder shall obtain and maintain all licenses and permits required by law for performance of this contract by him. The Responder shall have no claim against the City hereunder or otherwise for vacation pay, sick leave, retirement benefits, social security, worker's compensation, health or disability benefits, unemployment insurance benefits, or employee benefits of any kind, State or Federal governments' benefits, including but not limited to Social Security, workmen's compensation, Employment Security, sales or use tax and any other taxes and licenses or insurance premiums required by law. The City shall pay no employee benefits or insurance premiums of any kind to or for the benefit of Responder or his employees, agents, and servants by reason of this contract. The Responder will carry liability insurance relative to any service that he performs for the City. A certificate of insurance must be submitted to the purchasing office prior to services performed, with the requested coverage and limits per the City, with City of Sumter listed as additional insured.

1. Contractor's and Subcontractor's Insurance: Before commencing the Work, and until completion and final acceptance of the Work, the Contractor shall procure and maintain, at its own expense, the insurance coverages described below. Before starting the Work, Contractor shall furnish a Certificate of Insurance, in a form acceptable to Owner, evidencing the Contractor's compliance with the Agreement's insurance requirements. All insurance policies are to be written through a company duly authorized to transact that class of insurance within the jurisdiction of the Project site and shall be with insurance companies acceptable to Owner and with A.M. Best Rating of A minus or better. The Certificates and policies for the Commercial General Liability and Business Automobile Liability Policy shall name Owner, and if requested, Owner's agents, as Additional Insureds for completed and ongoing operations on a primary and non-contributory basis. All Insurance Certificates shall state policy numbers, dates of expiration, policy limits, and provide that the insurance will not be cancelled or changed unless Owner has been given written notice at least thirty (30) days prior to the date of the proposed change or cancellation.

If the Contractor fails to procure or maintain required insurance coverages, Owner shall have the right, but not the obligation, to procure and maintain the required insurance for and in the name of the Contractor, and Contractor

shall pay the cost thereof and furnish all necessary information to make effective and maintain such insurance. Contractor shall not commence work until all insurance requirements are met.

a. Required Insurance Coverages: The insurance coverages to be provided include those as set forth below unless modified in an Insurance Exhibit attached to the Agreement:

(1)Commercial General Liability Insurance with limits of \$1,000,000.00 per occurrence/\$1,000,000 aggregate Bodily Injury and Property Damage Liability. This coverage must, at a minimum, include coverage and/or endorsements for premises operations, products/completed operations, contractual liability assumed by Contractor under this Agreement, personal injury, advertising injury and broad form Property Damage (including coverage for explosion, collapse and underground hazards), and independent Contractor coverages. All liability policies must be written on an "occurrence" basis. Such policy shall not contain Endorsement, CG 22 94 10 01. The Commercial General Liability and Automobile Liability insurance required herein shall protect the Contractor and the Owner against liability from damages growing out of any Contractor operations (including the operation of all automobiles, trucks, and other vehicles owned or rented) in connection with the performance of this Agreement, as well as liability Motor Vehicle arising after the completion of the Contractor's operations. (2)Liability Insurance with bodily injury limits of \$1,000,000.00 and property damage limits of \$1,000,000.00 or a combined single limit of \$1,000,000.00.

(3) Worker's Compensation in accordance with, and providing coverages meeting or exceeding the limits required by, the laws of the State of South Carolina jurisdiction, and Employer's Liability Insurance with the following minimum limits: \$100,000 Per Accident, \$100,000 Per Disease for Each Employee, \$500,000 aggregate.

(4) Excess or Umbrella Liability Insurance with a policy limit of \$1,000,000.00 per occurrence and aggregate.

(5) Sub-Contractor Insurance: If Contractor elects, with Owner's approval, to subcontract any portion of the Work to another Contractor, Contractor shall require of such Subcontractor insurance coverage similar to that required of Contractor hereunder and shall furnish to Owner evidence that such insurance coverages are currently in effect. Moreover, Contractor shall require any such Subcontractor to name Contractor and Owner as additional insured's on Subcontractor's Commercial General Liability Insurance and will provide Contractor with a waiver of subrogation form from such sub-Contractors worker's compensation carrier. Failure of Contractor to require Subcontractor to obtain the coverages required herein or to furnish Owner evidence of such coverage shall be grounds for termination for default.

b. The Contractor shall furnish one copy of each Certificate of Insurance herein required attached to each copy of the Agreement, plus three additional copies of each Certificate of Insurance herein required, which shall specifically set forth evidence of all coverages set forth above. The Contractor shall furnish to the Owner copies of any endorsements that are subsequently issued amending coverage or limits. 2. Payment and Performance Bonds (CONSTRUCTION BIDS ONLY): If the Contractor's work as set forth in the <u>Scope of Work exceeds \$50,000.00</u>, Contractor shall provide payment and performance bonds in the full amount of the Contract Sum.

a. The payment and performance bonds, if any, shall name Owner as the obligee. Such bonds must be secured by cash or must be issued by a surety company licensed in the State of South Carolina with an "A" minimum rating of performance as stated in the most current publication of "Best Key Rating Guide, Property Liability".

b. Upon execution of the Contract Documents, the Contractor shall furnish to the Owner a Performance Bond and a separate Labor and Material Payment Bond in a form acceptable to the Owner.

The bonds shall guarantee the Contractor's faithful performance of the Contract and payment of all obligations arising thereunder. The bonds shall remain in force until the Work has been completed and accepted by the Owner, the provisions of all guarantees required by these Contract Documents have been fulfilled, and the warranty periods and period for correction of the Work as provided in the Contract Documents have expired, or the period for filing mechanics' liens has expired, whichever occur latest, after which time the bonds shall lapse. The Contractor shall bear all costs in connection with the bonds as a part of the Contract. One executed copy of each bond shall be attached to each executed copy of the Contract Documents prior to the execution of the Contract Documents by the Owner.

c. The Contractor shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix thereto a certified and current copy of the power of attorney.

All items delivered to or drop shipped to the site remain the sole responsibility of the Bidder . Bidder is solely responsible for maintaining insurance on and replacing said items in the event of theft, damage, or other loss.

Each of the bidders shall fully familiarize itself with the conditions relating to the bid to insure complete understanding of all the details involved. The bidder shall satisfy itself as to the actual requirements of the bid by personal examination of its location or other means, so as to enable the bidder to make an informed bid. Failure to do so shall not relieve the successful bidder of its obligation to furnish all materials, products, and/or labor necessary to complete the provision of the awarded contract and failure to do so may result in the claims against bonds. No allowance will be made for any claims that a bid and/or response was based on incomplete information as to the nature and character of the sites and of the work involved.

The responder shall indemnify, defend and hold harmless City of Sumter, its officers, agents and employees from liability and any claims, suits, judgments, and damages of any nature brought because of, arising out of, or due to breach of the agreement by Responder, its subcontractors, suppliers, agents, or employees or due to any negligent act or occurrence or any omission or commission of Responder, its subcontractors, suppliers, agents, or employees.

Should any responder fail to perform or comply with any provision or terms and conditions of any documents referenced and made part hereof, City of Sumter may terminate this contract, in whole or in part, and may consider such failure or non compliance a breach/default of contract. The City reserves the right to purchase any/all items or service in default on the open market. By submittal of a response, all responders agree to this provision. No additional responses will be considered from a firm in default. No principals of a defaulting firm may submit a response under another organization or individual name until their previous default is settled.

City of Sumter may terminate this agreement with or without cause at anytime. In the event of termination by either party, uncontested fees due for services satisfactorily performed or goods accepted prior to the termination shall be paid.

FEDERAL FUNDING CONTRACT/AGREEMENT

FEDERAL AGENCY'S GRANT PROGRAM REQUIREMENTS FOR PROCUREMENT CONTRACTS

Contractual Certifications and Assurances

2 CFR Part 200 UNIFORM ADMINISTRATIVE REQUIREMENTS,

COST PRINCIPLES, AND AUDIT REQUIREMENTS FOR FEDERAL AWARDS

WHEREAS, this Contract/Agreement between _____ ("Contractor"), and City of Sumter, (the "City") for ITB #22 – 24/25.

WHEREAS, the City issued ITB **#22-24/25** which is hereby incorporated into this Contract/Agreement in its entirety by reference;

NOTWITHSTANDING, the date of execution of this Contract/Agreement by the parties hereto, the parties intend that this Contract/Agreement shall be effective as of Date of Original Purchase Order;

WHEREAS, the parties acknowledge that the above-referenced Contract/Agreement is subject to the provisions of 2 C.F.R. § 200 Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards and the Robert T. Stafford Disaster Relief and Emergency Assistance Act (42 U.S.C. 5121-5207 et seq.);

WHEREAS, this Contract/Agreement is hereby expressly incorporated into the Contract/Agreement between the City of Sumter and the Contractor. The Contractor agrees to include the above clause in each third party subcontract financed in whole or in part with Federal assistance provided by HUD. It is further agreed that the clause shall not be modified, except to identify the subcontractor who will be subject to its provisions. To the extent that the terms of the ITB **#22-24/25** and if this Contract/Agreement conflict, the terms of this Contract/Agreement shall control;

The following provisions are hereby added and incorporated into the above-referenced Contract/Agreement:

I. **TERMINATION FOR CONVENIENCE OF THE CITY** (applicable to all contracts in excess of \$10,000)

- A. City shall have the option, in its sole discretion, to terminate this Contract/Agreement, at any time during the term hereof, for convenience and without cause. City shall exercise this option by giving Contractor written notice of termination. The notice shall specify the date on which termination shall become effective.
- B. Upon receipt of the notice, Contractor shall commence and perform, with diligence, all actions necessary on the part of Contractor to effect the termination of this Contract/Agreement on the date specified by City and to minimize the liability of Contractor and City to third parties as a result of termination. All such actions shall be subject to the prior approval of the City. Such actions shall include, without limitation:

1. Halting the performance of all services and other work under this Contract/Agreement on the date(s) and in the manner specified by City.

2. Not placing any further orders or subcontracts for materials, services, equipment or other items.

3. Terminating all existing orders and subcontracts.

4. At City's direction, assigning to City any or all of Contractor's right, title, and interest under the orders and subcontracts terminated. Upon such assignment, City shall have the right, in its sole discretion, to settle or pay any or all claims arising out of the termination of such orders and subcontracts.

5. Subject to City's approval, settling all outstanding liabilities and all claims arising out of the termination of orders and subcontracts.

6. Completing performance of any services or work that City designates to be completed prior to the date of termination specified by City.

7. Taking such action as may be necessary, or as the City may direct, for the protection and preservation of any property related to this Contract/Agreement which is in the possession of Contractor and in which City has or may acquire an interest

C. Within 30 days after the specified termination date, Contractor shall submit to City an invoice, which shall set forth each of the following as a separate line item:

1. The reasonable cost to Contractor, without profit, for all services and other work City directed Contractor to perform prior to the specified termination date, for which services or work City has not already tendered payment. Reasonable costs may include a reasonable allowance for actual overhead, not to exceed a total of 10% of Contractor's direct costs for services or other work. Any overhead allowance shall be separately itemized. Contractor may also recover the reasonable cost of preparing the invoice. Taking such action as may be necessary, or as the City may direct, for the protection and preservation of any property related to this Contract/Agreement which is in the possession of Contractor and in which City has or may acquire an interest.

2. A reasonable allowance for profit on the cost of the services and other work described in the immediately preceding subsection (1), provided that Contractor can establish, to the satisfaction of City, that Contractor would have made a profit had all services and other work under this Contract/Agreement been completed, and provided further, that the profit allowed shall in no event exceed 5% of such cost.

3. The reasonable cost to Contractor of handling material or equipment returned to vendor, delivered to the City or otherwise disposed of as directed by the City.

D. In no event shall City be liable for costs incurred by Contractor or any of its subcontractors after the termination date specified by City, except for those costs specifically enumerated and described in the immediately preceding subsection C. Such non-recoverable costs include, but are not limited to, anticipated profits on this Contract/Agreement, post-termination employee salaries, post-termination administrative expenses, post-termination overhead or unabsorbed overhead, attorneys' fees or other costs related to the prosecution of a

claim or lawsuit, prejudgment interest, or any other expense which is not reasonable or authorized under such subsection C.

E. In arriving at the amount due to Contractor under this Section, City may deduct:

1. All payments previously made by City for work or other services covered by Contractor's final invoice;

2. Any claim which City may have against Contractor in connection with this Contract/Agreement;

3. Any invoiced costs or expenses excluded pursuant to the immediately preceding subsection D; and

4. In instances in which, in the opinion of the City, the cost of any service or other work performed under this Contract/Agreement is excessively high due to costs incurred to remedy or replace defective or rejected services or other work, the difference between the invoiced amount and City's estimate of the reasonable cost of performing the invoiced services or other work in compliance with the requirements of this Contract/Agreement.

F. City's payment obligation under this Section shall survive termination of this Contract/Agreement.

II. TERMINATION FOR DEFAULT – REMEDIES FOR BREACH (applicable to contracts in excess of the simplified purchase threshold (\$150,000.00) shall contain provisions allowing for administrative, contractual, or legal remedies for contractor breaches of the contract terms, and shall provide for such remedial actions as appropriate)

Contractor's failure to perform or observe any term, covenant or condition of this document (Federal Emergency Management Agency's Emergency Management Performance Grant Program Requirements for Procurement Contracts) shall constitute an event of default under this Contract/Agreement.

A. Each of the following shall also constitute an event of default ("Event of Default") under this Contract/Agreement:

1. Contractor fails or refuses to perform or observe any other term, covenant or condition contained in this Contract/Agreement, and such default continues for a period of ten days after written notice thereof from City to Contractor.

2. Contractor (a) is generally not paying its debts as they become due, (b) files, or consents by answer or otherwise to the filing against it of a petition for relief or reorganization or arrangement or any other petition in bankruptcy or for liquidation or to take advantage of any bankruptcy, insolvency or other debtors' relief law of any jurisdiction, (c) makes an assignment for the benefit of its creditors, (d) consents to the appointment of a custodian, receiver, trustee or other officer with similar powers of Contractor or of any substantial part of Contractor's property or (e) takes action for the purpose of any of the foregoing.

3. A court or government authority enters an order (a) appointing a custodian, receiver, trustee or other officer with similar powers with respect to Contractor or with respect to any substantial part of Contractor's property, (b) constituting an order for relief or approving a petition for relief or reorganization

or arrangement or any other petition in bankruptcy or for liquidation or to take advantage of any bankruptcy, insolvency or other debtors' relief law of any jurisdiction or (c) ordering the dissolution, winding-up or liquidation of Contractor.

B. On and after any Event of Default, City shall have the right to exercise its legal and equitable remedies, including, without limitation, the right to terminate this Contract/Agreement or to seek specific performance of all or any part of this Contract/Agreement. In addition, City shall have the right (but no obligation) to cure (or cause to be cured) on behalf of Contractor any Event of Default; Contractor shall pay to City on demand all costs and expenses incurred by City in effecting such cure, with interest thereon from the date of incurrence at the maximum rate then permitted by law. City shall have the right to offset from any amounts due to Contractor under this Contract/Agreement or any other Contract/Agreement between City and Contractor all damages, losses, costs or expenses incurred by City as a result of such Event of Default and any liquidated damages due from Contractor pursuant to the terms of this Contract/Agreement or any other agreement.

C. All remedies provided for in this Contract/Agreement may be exercised individually or in combination with any other remedy available hereunder or under applicable laws, rules and regulations. The exercise of any remedy shall not preclude or in any way be deemed to waive any other remedy

III. SOCIO-ECONOMIC ENGAGEMENT

Contractor will take the following affirmative steps to engage small and minority firms, women's business enterprises, and labor surplus area firms.

A. Place qualified small and minority business and women's business enterprises on sub-contractor solicitation lists.

B. Assure that such firms are solicited whenever they are potential sources.

C. Divide total requirements into smaller tasks or quantities to permit maximum participation by such firms.

D. Establish delivery schedules which encourage participation by such firms.

IV. ACCESS TO RECORDS

A. Contractor agrees to provide the City, HUD, the Comptroller General of the United States or any their authorized representatives access to any books, documents, papers, and records of the Contractor which are directly pertinent to this *Contract/Agreement* for the purposes of making audits, examinations, excerpts and transcriptions.

B. Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.

C. Contractor agrees to maintain all books, records, accounts and reports required under this *Contract/Agreement* for a period of not less than three years after the later of: (a) the date of termination or expiration of this Contract/Agreement or (b) the date City makes final payment under this Contract/Agreement, except in the event of litigation or settlement of claims arising from the performance of this Contract/Agreement,

in which case, Contractor agrees to maintain same until the City, HUD, the Comptroller General, or any of their duly authorized representatives, have disposed of all such litigation, appeals, claims or exceptions related thereto.

V. EQUAL EMPLOYEMENT OPPORTUNITY (applicable to all construction contracts awarded in excess of \$10,000 by grantees and their contractors or sub-grantees)

Contractor agrees to comply with Executive Order 11246, "Equal Employment Opportunity," as amended by Executive Order 11375, "Amending Executive Order 11236 Relating to Equal Employment Opportunity," and as supplemented by regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor.

VI. COPELAND "ANTI-KICKBACK" ACT (applicable to all contracts and subgrants for construction or repair)

Contractor agrees to comply with the Copeland "Anti-Kickback" regulations under Section 2 of the Act of June 13, 1934, as amended (40 U.S.C. 276c), popularly known as the Copeland Act. (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3).

A. Subcontracts. Contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as the HUD may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.

B. Breach. A breach of the Contract/Agreement clauses above may be grounds for termination of the Contract/Agreement, and for debarment as a contractor and subcontractor as provided in 29 C.F.R. § 5.12.

VII. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT (applicable to all construction contracts awarded by grantees and sub-grantees in excess of \$2,000, and all other contracts involving the employment of mechanics or laborers in excess of \$2,500)

Contractor agrees that it shall comply with Sections 103 and 107 of the Contract/Agreement Work Hours and Safety Standards Act (40 U.S.C. 327–330) as supplemented by Department of Labor regulations (29 CFR Part 5), which requires each contractor to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and one-half times the basic rate of pay for all hours worked in excess of 40 hours. Section 107 is applicable to construction work and provides that no laborer or mechanic shall be required to work in surroundings or under working conditions that are unsanitary, hazardous, or dangerous.

VIII. CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT (applicable to all contracts and subcontracts in excess \$100,000, including indefinite quantities where the amount is expected to exceed \$100,000 in any year)

- A. Contractor agrees to comply with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR Part 15).
- B. Contractor acknowledges that the Clean Air Act (CAA) is the comprehensive federal law regulating air emissions from stationary and mobile sources. Among other things, this law

authorizes EPA to establish National Ambient Air Quality Standards (NAAQS) to protect public health and public welfare and to regulate emissions of hazardous air pollutants.

- C. Contractor acknowledges that the Federal Water Pollution Control Act, popularly known as the Clean Water Act, is a comprehensive law aimed at restoring and maintaining the chemical, physical and biological integrity of the nation's waters. The Act authorizes water quality programs, requires federal effluent limitations and state water quality standards, requires permits for the discharge of pollutants into navigable waters, provides enforcement mechanisms, and authorizes funding for wastewater treatment construction grants and state revolving loan programs, as well as funding to states and tribes for their water quality programs.
- D. Contractor agrees to report each violation of these requirements to the City and understands and agrees that the City will, in turn, report each violation as required to assure notification to HUD and the appropriate EPA regional office.
- E. Contractor agrees to include paragraph a) and d) above in each third party subcontract exceeding \$100,000 financed in whole or in part with Federal assistance provided by HUD.

IX. BYRD ANTI-LOBBYING AMENDMENT

Contractor acknowledges and agrees that Sub-recipients applying or bidding for an award of \$100,000 or more shall certify that they have not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or any employee of a member of Congress in connections with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. §1352.

X. DEBARMENT AND SUSPENSION

Contractor certifies that neither it nor its Principals (as defined at 49 C.F.R. §29.105) or any of its subcontractors is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this Contract/Agreement by any Federal department or agency.

Except as modified herein, all terms and conditions of the existing Contract/Agreement between the parties remain in full force and effect.

Accepted by	on
By:	Title:
Signature:	
Accepted by the CITY OF SUMTER of	Dn
By: Mr. Deron L. McCormick	Title: City Manager
Signature:	



2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE: www.emeraldinc-us.com TELEPHONE (803) 469-5454 FAX (803) 469-5465

ASBESTOS SURVEY REGARDING SUMTER CITY/COUNTY PROJECT DILAPIDATED COMMERCIAL BUILDING 5 HARRIS STREET SUMTER, SOUTH CAROLINA



Prepared for:

City of Sumter P.O. Box 1449 Sumter, South Carolina 29151

Prepared by:

Emerald, Inc. P.O. Box 3050 Sumter, South Carolina 29151

Date of Inspection: August 20, 2024 Date of Report: August 29, 2024

FOREWORD

This report was prepared by Emerald, Inc. of Sumter, South Carolina, for the City of Sumter, regarding the dilapidated commercial building located at 5 Harris St. in Sumter, S.C. The contents of this report are confidential and intended for the use of the client only.

J. Dalton Reames, Jr., S.C. Licensed Building Inspector, conducted the inspection, and Ronny L. Lowder, S.C. Licensed Building Inspector and Management Planner, prepared this report. Any questions or comments concerning this report should be directed to Ronny L. Lowder at either (803) 469-5454 or via email at rlowder@emeraldincus.com.

J. Dalton Reames. Jr.

SC Licensed Building Inspector License Number BI-00945 Expiration Date: 11/06/24

SC Licensed AHERA Supervisor License Number SA-01252 Expiration Date: 11/07/24

SC Licensed Air Sampler License Number AS-00287 Expiration Date: 11/07/24

SC Licensed Project Designer License Number PD-00200 Expiration Date: 08/07/25

Ronny L. Lowder, CHMM

SC Licensed Building Inspector License Number BI-01497 Expiration Date: 09/18/24

SC Licensed AHERA Supervisor License Number SA-00715 Expiration Date: 09/17/24

SC Licensed Mgmt Planner License Number ASB-32201 Expiration Date: 09/18/24

TABLE OF CONTENTS

1.0	INTRODUCTION AND OBJECTIVE	1
2.0	SURVEY METHODOLOGY	1
3.0	HAZARD ASSESSMENT FACTORS (ASBESTOS)	4
3.1	Homogeneous Areas	4
3.2	Hazard Factors	4
4.0	ANALYSIS AND RESULTS	5
4.1	Laboratory Analysis	5
4.2	Survey Results	5
5.0	CONCLUSIONS AND RECOMMENDATIONS	7
6.0	ASSUMPTIONS AND LIMITATIONS	8
7.0	APPENDICES	9

1.0 INTRODUCTION AND OBJECTIVE

Emerald, Inc. was requested to conduct an Asbestos Survey of the vacant, significantly collapsed, commercial structure located at 5 Harris St. in Sumter, S.C., to identify the presence of any asbestos-containing materials (ACM), prior to demolition activities. The inspection was authorized by Mr. John Macloskie, Codes Director, with the City of Sumter. The inspection included identification and assessment of the condition of suspect asbestos-containing materials, either friable or non-friable, on the interior and exterior portions of the structure.

This report is a compilation of the inspection and its results.

2.0 SURVEY METHODOLOGY

On August 20, 2024, Emerald, Inc. conducted an Asbestos Survey on the building at the stated address. J. Dalton Reames, Jr., South Carolina Licensed Building Inspector, conducted the inspection.

Estimated to have been constructed circa 1970 for commercial purposes and most recently utilized as bar room and storage space, the single-story structure contains approximately 2,445 square feet of interior space. With the total collapse of a wooden roof structure, significant portions of the building materials lay in debris piles throughout the slab floor areas. Much of the building is in hazardous condition. To facilitate a comprehensive sampling strategy, the building was divided into two functional areas, East Section and West Section. The basic construction of each section is as follows:

- East Section (Approximately 27' x 23')
 - Concrete Masonry Unit (CMU) Block Exterior Walls Built over a Concrete Slab
 - Total Collapse of Wooden Roof Structure (Debris Piles on Slab)

- Shingle Rolls and Asbestos-containing Coating Materials
- Asbestos-containing Roof Penetration Sealants
- Remnant, Asbestos-containing Sheetrock Wall and Ceiling Materials in Debris piles, as well as Extant along Some Interior Wall Areas
- Remnant Rough-coat Plaster Wall Material Scattered in Debris, as well as along Some Interior Wall Areas
- No HVAC Equipment

West Section (Approximately 40' x 38')

- CMU Exterior Walls Built over a Concrete Slab
- Approximately 280 Square Feet of Asbestos-containing 12 x 12 Floor
 Tiles over the Slab
- Wooden, A-framed Roof Structure
 - Roofing Shingles and Associated Felt
 - Chimney with Flashing Sealant
- Wooden Ceiling Joists Covered with a Sheetrock System
- Interior Walls Include Bare CMU, Wood Panels over Wood Framing and Sheetrock over Wood Framing
- Climate Control Equipment
 - Ground-mounted, Direct-air Compressor
 - Wall-mounted Metal Duct Tower

Future use of the property, following demolition activities, is unknown.

The survey included a visual inspection to identify the presence of material suspected of containing asbestos. This identification was based on the experience and training of the inspector. A total of thirty-one (31) samples were collected during the

survey for laboratory analysis, based upon the required EPA and SC DHEC sampling matrix. Samples were placed in individual containers, labeled and numbered according to the sampling schemes (5-1 through 5-31). Per SC DHEC Asbestos Regulations, the independent laboratory is required to sample all layers of each sample. As a result, thirty-nine (39) samples were analyzed by the lab, via Polarized Light Microscopy (PLM) while utilizing Positive Stop, and five (5) samples were analyzed, via Transmission Electron Microscopy (TEM). Appendix B contains the Asbestos Survey Log kept during the inspection which identifies the samples collected by sample number, sample type, location and condition assessment, along with any comments. The samples were shipped to EMSL Analytical, Inc. in Kernersville, North Carolina for analysis. Analysis and results are discussed in Section 4.0.

3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)

3.1 Homogeneous Areas

The sample collection was typically conducted by homogeneous materials, i.e., any materials of the same type regarding uniformity throughout in structure or make-up and appearance (color, texture, and/or date of construction/application). Homogeneous materials can be further classified as surfacing materials, thermal system insulation and miscellaneous materials. Miscellaneous materials include ceiling tiles, floor tiles, roofing, caulking, and glazing, etc.

3.2 Hazard Factors

The samples of suspect material collected were classified as either friable (F) or non-friable (NF). Friable means the material can be crumbled, pulverized, or reduced to powder by ordinary hand pressure. Materials initially determined to be non-friable can receive a reclassification of friable if the material is damaged, thereby providing an avenue for release of asbestos fibers. Friable asbestos-containing material (ACM) has been determined by EPA and OSHA to be a greater hazard (health risk) than non-friable ACM. In assessing the fiber release potential, the current condition of the suspect materials sampled was noted in the Asbestos Survey Log (Appendix B). The condition was denoted as good, damaged, or significantly damaged. Current condition is a factor used to assess the potential for fiber release. Other factors used to determine potential fiber release include air movement, surface type, and area activity as related to human occupancy.

4

4.0 ANALYSIS AND RESULTS

4.1 Laboratory Analysis

Bulk samples were analyzed by EMSL Analytical, Inc. using Polarized Light Microscopy (PLM) with Dispersion Staining Techniques (EPA Bulk Analysis Method 600/R-93/116). This method utilizes part of the bulk sample which is mounted on a slide and exposed to an oil of specific refractive index. This prepared slide is then subjected to a variety of optical tests.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of asbestos content are then determined through visual estimating. Although this is an estimate, any material containing greater than one percent of any type of asbestos is classified as ACM by the EPA. Any material classified as ACM must be handled accordingly.

Under the revised South Carolina Asbestos Regulation 61-86.1 effective June 27, 2008, any analysis of non-friable organically bound (NOB) material that is found to be negative via PLM testing, must have confirmation testing via Transmission Electron Microscopy (TEM) on one sample from each media; therefore, five (5) samples were analyzed by the lab, via TEM testing.

4.2 Survey Results

Samples were collected and tested from various suspect materials, as referenced in Appendix B, Asbestos Sample Log. Samples of yellow floor tile mastic associated with 12 x 12 floor tiles, West Section roof shingles, West Section roofing felt, and West Section chimney sealant were verified as negative, via TEM analysis.

Appendix C contains a copy of the analytical results from the laboratory. of the analytical results from the laboratory.

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TABLE 1 DILAPIDATED COMMERCIAL BUILDING 5 HARRIS STREET SUMTER, SOUTH CAROLINA ASBESTOS-CONTAINING MATERIALS

Description	Location	Category (F/NF)	Approx. SF/LF
East Section Roofing Materials	Roof Debris Scattered on the Floor of the East Section	F – Due to Significantly Damaged Condition	625 SF / Mixed with 1,250 Cubic Feet of Floor Debris
East Section Roof Penetration Sealant Material	Roof Debris Scattered on the Floor of the East Section	F – Due to Significantly Damaged Condition	24 LF / Mixed with 1,250 Cubic Feet of Floor Debris
Joint Compound of Sheetrock Wall and Ceiling System of the East Section	Debris Scattered on the Floor of the East Section, as well as Remnant Material along Interior Walls of the East Section	F – Significantly Damaged Condition	1,421 SF of Material / Along Interior Walls and Mixed with 1,250 Cubic Feet of Floor Debris
Cream-colored 12x12 Floor Tiles	Over Concrete Slab of West Section: - Hall - South Area of Room 5W-A - Restroom 5W-B - Restroom 5W-C	NF – Cat. I – Good Condition	280 SF

- Note: F Friable
 - NF Non-Friable
 - (1) For reference regarding potential outdoor abatement and demolition activities with RACM, the total amount of East Section building materials is approximately 2,484 cubic feet. The West Section amounts are not included in this estimate, whereas this section is largely intact.

EMERALD, INC., CONDUCTED THE SURVEY TO THE BEST OF ITS ABILITY, ADHERING TO INDUSTRY STANDARDS. THE QUANTITIES PROVIDED IN THIS REPORT ARE APPROXIMATE AND SHALL SERVE AS A BASIS FOR ABATEMENT BID SUBMITTALS. IF ADDITIONAL SUSPECT MATERIALS ARE IDENTIFIED DURING RENOVATION OR DEMOLITION ACTIVITY, THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE BUILDING OWNER'S REPRESENTATIVE.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the inspection of August 20, 2024, and the analytical results from the samples collected and tested by an independent laboratory, the dilapidated commercial building located at 5 Harris St. in Sumter, S.C., does contain non-friable asbestos-containing material (ACM) and friable, regulated asbestos-containing material (RACM), as per Table 1. Such materials will have to be removed and properly disposed by a S.C. licensed abatement contractor per SC DHEC Bureau of Air Quality Asbestos Regulation 61-86.1 effective May 27, 2011, prior to demolition activities involving the ACM and RACM.

6.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection of August 20, 2024. Emerald, Inc., their representative and this report make no representation and/or assumptions as to past conditions or future occurrences. The information, conclusions and recommendations provided herein do not constitute as legal or medical advice. It is further understood that Emerald, Inc. makes no representations or warranties of any kind. Nor are such representations or warranties to be implied with respect to the data furnished. Emerald, Inc. assumes no responsibility with respect to the customers and its employees use thereof.

The information provided herein applies only to the subject property as it existed during Emerald, Inc.'s site visit. If this site's use and/or conditions change, information, observations and recommendations found herein would no longer apply. This report is intended to be used in its entirety. No excerpts may be taken to typify the findings of this survey. Emerald, Inc. shall not be liable for any special, consequential and/or exemplary damages resulting, in whole or in part, from the customer's use of the data provided. It was not within the scope of this investigation to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Our selection of sample locations and frequency is based upon our observations and the assumption that like materials in the same are homogeneous.

Emerald, Inc. conducted the survey to the best of its ability using the standards of the industry. In the event additional materials are found to contain asbestos, Emerald, Inc. shall not be liable for any failure of such findings during its initial survey.

8

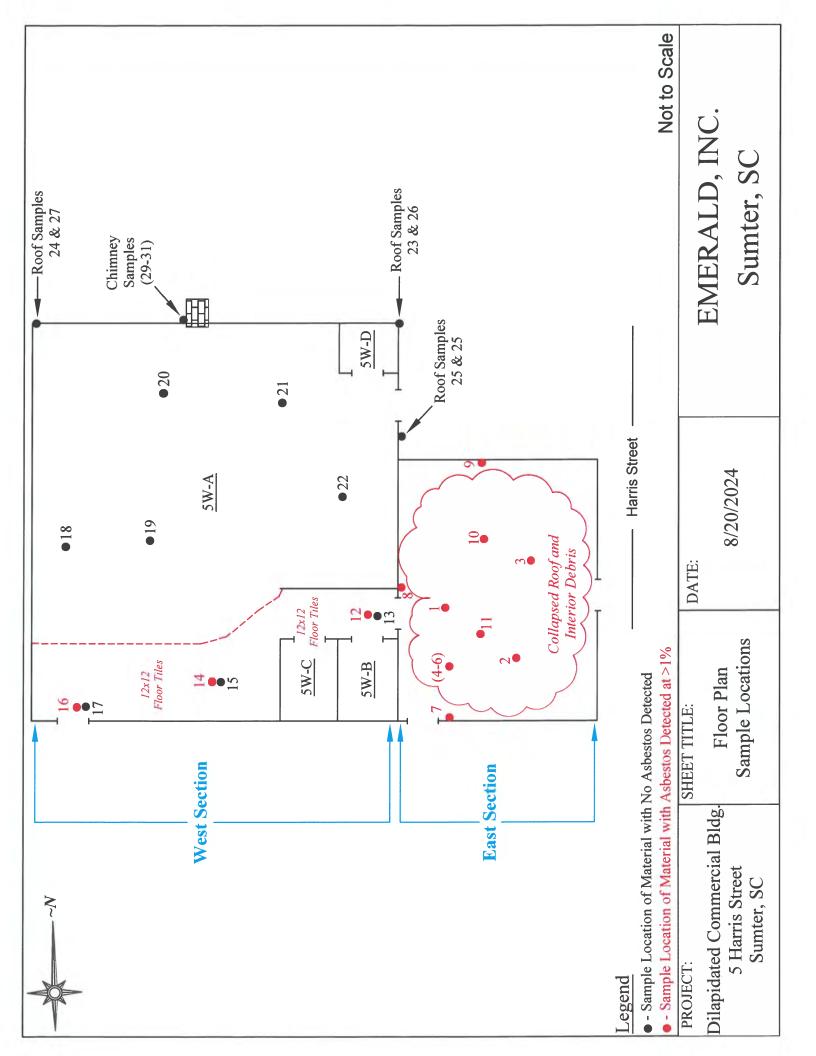
7.0 APPENDICES

APPENDIX A.	Site Plan
APPENDIX B.	Asbestos Sample Log
APPENDIX C.	Chain of Custody & Analytical Results
APPENDIX D.	Building Inspector Licenses
APPENDIX E.	Site Photographs

APPENDIX A

SITE PLAN





APPENDIX B

ASBESTOS SAMPLE LOG

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 5 Harris St. ADDRESS: 5 Harris St., Sumter, S.C.

DATE: <u>8/20/2024</u> INSPECTOR: <u>Dalton Reames</u>

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Page 1 of 2

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 5 Harris St. ADDRESS: 5 Harris St., Sumter, S.C.

DATE: 8/20/2024 INSPECTOR: Dalton Reames

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APPENDIX C

CHAIN OF CUSTODY & ANALYTICAL RESULTS



Atte

EMSL Analytical, Inc.

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

EMSL Order: 022404797 Customer ID: EMER51 **Customer PO:** Project ID: Sumter County

ttention:	Ronny Lowder
	Emerald, Inc.
	2520 Tahoe Drive
	PO Box 3050
	Sumter, SC 29151
Project:	Sumter County Project : 5 Harris St. (Sumter County)

Phone: (803) 469-5454 Fax: (803) 775-1970 08/21/2024 9:00 AM **Received Date:** 08/28/2024 Analysis Date: **Collected Date:**

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
5-3-Shingle 022404797-0025	East Section Roofing Materials	Gray/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
5-17 022404797-0026	Yellow Mastic	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
5-25 022404797-0027	West Section Roof Shingles	Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
5-28 022404797-0028	West Section Roof Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
5-31 022404797-0029	West Section Chimney Sealant	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Stephen Bennett (5)

Stephen Bennett, Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/29/2024 08:40:19

ASB_PLMEPANOB_0012_0002 Printed 8/29/2024 8:40:23AM

EMSL	EMSL Analytical, Inc. 706 Gratin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
	Ronny Lowder Emerald, Inc. 2520 Tahoe Drive PO Box 3050 Sumter, SC 29151	Phone: Fax: Received Date: Analysis Date: Collected Date:	(803) 775-1970 08/21/2024 9:00 AM
Project:	Sumter County Project : 5 Harris St. (Sumter County)		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	stos	Asbestos % Type		
Sample	Description	Description Appearance % Fibrous % Non-Fibrous					
5-1	East Section Roofing Materials	Gray/White/Black Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected		
022404797-0001 Shingle only		Heterogeneous					
5-2-Coating	East Section Roofing Materials	Gray/Black Fibrous		98% Non-fibrous (Other)	2% Chrysotile		
022404797-0002		Heterogeneous					
5-2-Shingle	East Section Roofing Materials	Gray/Black Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected		
022404797-0002A	East Section Roof	Homogeneous Brown/Gray/Black	5% Cellulose	89% Non-fibrous (Other)	3% Chrysotile		
5-4 022404797-0003	Penetration Sealant	Fibrous Heterogeneous	3% Glass				
5-5	East Section Roof Penetration Sealant				Positive Stop (Not Analyzed)		
022404797-0004					3% Chrysotile		
5-7-Joint Compound	East Section Remnant Wall Materials	Beige Non-Fibrous Homogeneous		30% Ca Carbonate 67% Non-fibrous (Other)	5% Chrysothe		
5-7-Drywall	East Section Remnant Wall	Brown/Gray Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected		
022404797-0005A	Materials	Heterogeneous					
5-7-Rough Coat	East Section Remnant Wall Materials	White Non-Fibrous Heterogeneous		15% Ca Carbonate 30% Perlite 55% Non-fibrous (Other)	None Detected		
5-8-Joint Compound	East Section Remnant Wall	Hotorogenerate			Positive Stop (Not Analyzed)		
022404797-0006	Materials						
5-8-Drywall	East Section Remnant Wall	Brown/Gray Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected		
022404797-0006A	Materials	Heterogeneous		10% Ca Carbonate	None Detected		
5-8-Rough Coat	East Section Remnant Wall Materials	White Non-Fibrous Heterogeneous		30% Perlite 60% Non-fibrous (Other)			
5-9-Drywall	East Section Remnant Wall	Brown/Gray Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected		
022404797-0007 Joint compound not present	Materials	Heterogeneous					
5-9-Rough Coat	East Section Remnant Wall	White Non-Fibrous		15% Ca Carbonate 30% Perlite	None Detected		
022404797-0007A	Materials	Homogeneous		55% Non-fibrous (Other)			
5-10-Joint Compound	East Section Remnant Wall				Positive Stop (Not Analyzed)		
022404797-0008	Materials		400/ 0-11-1	00% Non fibrous (Other)	None Detected		
5-10-Drywall	East Section Remnant Wall Materials	Gray Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	HOUE Delected		
UZ2404/97-0008A	waterials	rieleiogeneous					

EMSL Analytical, Inc.

EMSL

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@ernsl.com EMSL Order: 022404797 Customer ID: EMER51 Customer PO:

Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbest		Asbestos
Sample	Description	Appearance	% Non-Fibrous	% Type	
5-10-Rough Coat	East Section Remnant Wall	Gray Non-Fibrous		10% Ca Carbonate 15% Perlite	None Detected
22404797-0008B	Materials	Homogeneous		75% Non-fibrous (Other)	
5-11-Joint Compound	East Section Remnant Wall				Positive Stop (Not Analyzed)
022404797-0009	Materials				None Detected
5-11-Drywall	East Section Remnant Wall	Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404797-0009A	Materials	Heterogeneous		10% 0	None Detected
5-11-Rough Coat	East Section Remnant Wall	Gray/Tan Non-Fibrous		10% Quartz 15% Ca Carbonate 75% Non-fibrous (Other)	None Detected
022404797-0009B	Materials	Heterogeneous			3% Chrysotile
5-12	12x12 Floor Tile	Gray Non-Fibrous		20% Quartz 77% Non-fibrous (Other)	376 Ginyaothe
022404797-0010		Homogeneous		100% Non-fibrous (Other)	None Detected
5-13	Yellow Mastic	Tan/Yellow Non-Fibrous Homogeneous			
22404797-0011	10v10 Eleas Tila	nomogeneous			Positive Stop (Not Analyzed
5-14	12x12 Floor Tile				, course areh (not sumbred
22404797-0012					
5-15	Yellow Mastic	Tan/Yellow Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
022404797-0013		Homogeneous			
5-18-Joint Compound	West Section Sheetrock System	White Non-Fibrous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022404797-0014		Homogeneous		<u></u>	
5-18-Tape	West Section Sheetrock System	White/Beige Fibrous	100% Cellulose		None Detected
022404797-0014A		Homogeneous			None Detected
5-18-Drywall	West Section Sheetrock System	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404797-0014B	Mint On allow	Heterogeneous		30% Ca Carbonate	None Detected
5-19-Joint Compound	West Section Sheetrock System	White Non-Fibrous Homogeneous		70% Non-fibrous (Other)	
	West Section	White/Beige	100% Cellulose		None Detected
5-19-Tape	Sheetrock System	Fibrous			
022404797-0015A		Homogeneous			
5-19-Drywall	West Section Sheetrock System	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404797-0015B		Heterogeneous			
5-20-Joint Compound	West Section Sheetrock System	White Non-Fibrous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022404797-0016		Homogeneous			
5-20-Tape	West Section Sheetrock System	White/Beige Fibrous	100% Cellulose		None Detected
022404797-0016A		Homogeneous			Nane Datastad
5-20-Drywall	West Section Sheetrock System	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404797-0016B		Heterogeneous		20% Co Contracto	None Detected
5-21-Joint Compound	West Section Sheetrock System	White Non-Fibrous		30% Ca Carbonate 70% Non-fibrous (Other)	NOUE Defected
022404797-0017		Homogeneous	0011 0 11 1	10/ Nan Share (Other)	None Detected
5-21-Tape	West Section Sheetrock System	Tan Fibrous	99% Cellulose	1% Non-fibrous (Other)	NONE Detected
022404797-0017A		Homogeneous			

Initial report from: 08/26/2024 17:17:05



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404797 Customer ID: EMER51 Customer PO:

Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes	Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
5-21-Sheetrock	West Section Sheetrock System	Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected	
022404797-0017B		Heterogeneous			None Detected	
5-22-Joint Compound	West Section Sheetrock System	Tan/White Non-Fibrous		20% Ca Carbonate 80% Non-fibrous (Other)	None Delected	
022404797-0018		Homogeneous			None Detected	
5-22-Tape	West Section Sheetrock System	Tan Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Delected	
022404797-0018A		Homogeneous			None Detected	
5-22-Sheetrock	West Section Sheetrock System	Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Delected	
022404797-0018B		Heterogeneous		OTAL Marshare (Other)	None Detected	
5-23	West Section Roof Shingles	Black Fibrous	3% Glass	97% Non-fibrous (Other)	NOTE Detected	
022404797-0019		Heterogeneous			None Detected	
5-24	West Section Roof Shingles	Black Fibrous	5% Glass	95% Non-fibrous (Other)	None Detected	
022404797-0020		Heterogeneous				
5-26	West Section Roof Felt	Black Fibrous	80% Cellulose	20% Non-fibrous (Other)	None Detected	
022404797-0021		Homogeneous				
5-27	West Section Roof Felt	Black Fibrous	60% Cellulose	40% Non-fibrous (Other)	None Detected	
022404797-0022		Homogeneous			<u> </u>	
5-29	West Section Chimney Sealant	Black Non-Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected	
022404797-0023		Homogeneous				
5-30	West Section Chimney Sealant	Gray/Black Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected	
022404797-0024		Heterogeneous				

Analyst(s)

Cameron Evans (16) Jurnee West (23)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations . The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis . Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 08/26/2024 17:17:05

ASB PLM 0008_0002 - 2.31 Printed: 8/26/2024 5:17 PM



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

9 INCI nn

PHONE: FAX:

Company Name : Emera	ald, Inc.		EMSL Customer ID:								
Street: P.O. Box 3050			City: Sumter State/Province: SC								
Zip/Postal Code: 29151		Country: US	Telephone #: 803-469-5454 Fax #: 803-469-5465								
Report To (Name): Ronny	Lowder		Please Provide Results: 🔲 Fax 🗹 Email								
Email Address: rlowder(emeralding	-us.com	Purchase Order:								
Project Name/Number: Su	Imter County Pro	oject 5 Harris St.	EMSL Project	ct ID (Internal	Use Only)	dential/Tax Exempt					
U.S. State Samples Taken	SC ENSI DI	to: 🔽 Same 🔲 Different -	CT Samples	: Commer		pendali lax Exempt					
	EM9L-DIII	Third Party Billing requires write	ten authorization	n from third part	y						
Turnaround Time (TAT) Options* – Please Check											
	please call ahea	24 Hour 48 Hour ad to schedule *There is a premium	chame for 3 Ho	W TEM AHERA	or EPA Level II TAT. You	will be asked to sign an					
authonzation form f	or this service.	Analysis completed in accordance	WIN EMSLS Tem	Is and Condidor	is located in the Analytical i	Price Guide					
from NY	ipies are	<u>TEM Air</u> 4-4.5hr TAT (AHERA only)	TEM- Dust							
NIOSH 7400		AHERA 40 CFR, Part 76	3		- ASTM D 5755						
w/ OSHA 8hr. TWA		NIOSH 7402			STM D6480	02/467)					
PLM - Bulk (reporting lim				Carpet S Soil/Rock/	Constantion (EPA 600/J-	33/10/]					
PLM EPA 600/R-93/116		ISO 10312			A 600/R-93/116 with m	ulling prep (<1%)					
PLM EPA NOB (<1%)	1	TEM - Bulk			A 600/R-93/116 with m						
400 (<0.25%) 1000 ((<0.1%)	NYS NOB 198.4 (non-fria	ble-NY)		A 600/R-93/116 with m						
Point Count w/Gravimetric		Chatfield SOP			alitative via Filtration P						
400 (<0.25%) 1000 ((<0.1%)	TEM Mass Analysis-EPA	600 sec. 2.5		alitative via Drop Mour ati Method EPA 600/R-	04/004 – PLM/TEM					
NYS 198.1 (friable in N	IY)	TEM - Water: EPA 100.2		(BC only)							
NYS 198.6 NOB (non-f	nable-NY)	Fibers >10µm Waste	Drinking	Other:							
NYS 198.8 SOF-V		All Fiber Sizes Waste									
NIOSH 9002 (<1%)											
Check For Positive St	op – Clearly I	dentify Homogenous Grou	p Filter	Pore Size (A	ir Samples): 0.8	µm0.45µm					
Samplers Name: Dalt	on Rear	nes	Samplers	s Signature:		e					
Sample #		Sample Descript	ion		Volume/Area (Air) HA # (Bulk)	Date/Time Sampled					
Sample #	Descriptiv	ons on Following Page				8/20/2024					
	Description		<u> </u>								
Client Sample # (s): 5-	1 1 thru 5-31	•			Total # of Samples:	31					
	1 Dala	(a)	8/21	12024		000 0					
Reminipulation of the state of											
Received (Lab); A Quet Date: 8 d Q - Q Time: 9 00 Comments/Special Instructions:											
Note: Sumter County Project	4449113.										
(2) EGX 746	08 79	50 Page 1 of	1 2 pages			/					
Controlled Document - Asbestos COC	- R10 - 05/09/2016	\sim				6					
		2				. 7					
		Page 1 Of	2								

4797



CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284

Client Sample # (s)	5-1 thru 5-31	Total Samples #:	31	Phone: (336) 992-1025
Relinguished:	Date ⁻	Time:		Fax: (336) 992-4175
Received:	Date.	Time:		http://www.emsi.com
Relinguished:	Date ⁻	Time:		
Received:	Date.	Time:		

SAMPLE NUMBER	SAMPLE DESCRIPTION	VOLUME (if applicable)
5-1	East Section Roofing Materials	
5-2	" > Sample	All Lavers
	11	
5-4	East Section Roof Penetration Sealant	
5-5	8	
	В	
5-7.	East Section Remnant Wall Materials	
5-8	"	
5-9 [.]		All Lareys
5-10	"	
5-11 [.]	"	
5-12	12x12 Floor Tile	
5-13	Yellow Mastic	
5-14	12x12 Floor Tile	
5-15	Yellow Mastic	
	12x12 Floor Tile	
	Yellow Mastic	
5-18	West Section Sheetrock System	
5-19·	11	
5-20	" > Sanple +	All Capers
5-21	11	
5-22	11	
5-23	West Section Roof Shingles	
5-24	1	
	11	
5-26	West Section Roof Felt	
5-27	H	
	10	
5-29	West Section Chimney Sealant	
5-30	10	
	II	
		2
		3
	i international statements	

APPENDIX D

BUILDING INSPECTOR LICENSES

SCDHEC ISSUED Asbestos ID Card

RONNY LOWDER



CONSULTMP ASB-32201 CONSULTBI BI-01497 SUPERAHERA SA-00715

.

Expiration Date: 09/18/24 09/18/24 09/17/24

1



John Dalton Reames, Jr.



AIRSAMPLI CONSULTB CONSULTP SUPERAHE

		Expiration Date:
PLER	AS-00287	11/07/24
BI	BI-00945	11/06/24
TPD	PD-00200	08/07/25
IERA	SA-01252	11/07/24
ILINA	34 01202	

APPENDIX E

SITE PHOTOGRAPHS

Sumter City/County Project: 5 Harris St., Sumter, S.C.

Asbestos-containing Roofing Material in De-bris Pile of East Section Photo #4



Photo #3 Interior View of East Section Depicting Significantly Dilapidated Building Conditions





Photo #2 View Depicting the Dilapidated East Section at the East Front of the Building

Photo #1 View from Harris St. of the Commercial Bldg. -East Sect. obscured by Vegetation

Sumter City/County Project: 5 Harris St., Sumter, S.C.

View Depicting Dilapidated Interior Conditions in the West Section

Photo #8



Asbestos-containing 12x12 Floor Tiles in Hallway of the West Section Photo #7





Photo #6 Remnant Areas of Asbestos-containing Wall Materials in East Section

Photo #5 Asbestos-containing Roof Penetration Sealant Material in Debris of East Section







Photo #9 No Asbestos Detected in Sheetrock System of the West Section



Photo #11 No Asbestos Detected in Chimney Flashing Sealant of the West Section



Photo #10 No Asbestos Detected in Roof Shingles or Felt of the West Section



Compressor with Wall-mounted Duct Tower at Rear Exterior of West Section Photo #12

Sumter City/County Project: 5 Harris St., Sumter, S.C.

Emerald, Inc. CONSULTING AND ENGINEERING SERVICES IN ENVIRONMENTAL AFFAIRS

2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE: www.emeraldinc-us.com TELEPHONE (803) 469-5454 FAX (803) 469-5465

ASBESTOS SURVEY REGARDING SUMTER CITY/COUNTY PROJECT DILAPIDATED RESIDENTIAL BUILDING 15 CLEVELAND STREET SUMTER, SOUTH CAROLINA



Prepared for:

City of Sumter P.O. Box 1449 Sumter, South Carolina 29151

Prepared by:

Emerald, Inc. P.O. Box 3050 Sumter, South Carolina 29151

Date of Inspection: August 13, 2024 Date of Report: August 26, 2024

FOREWORD

This report was prepared by Emerald, Inc. of Sumter, South Carolina, for the City of Sumter, regarding the dilapidated residential building located at 15 Cleveland St. in Sumter, S.C. The contents of this report are confidential and intended for the use of the client only.

J. Dalton Reames, Jr., S.C. Licensed Building Inspector, conducted the inspection, and Ronny L. Lowder, S.C. Licensed Building Inspector and Management Planner, prepared this report. Any questions or comments concerning this report should be directed to Ronny L. Lowder at either (803) 469-5454 or via email at rlowder@emeraldincus.com.

J. Dalton Reames, Jr.

SC Licensed Building Inspector License Number BI-00945 Expiration Date: 11/06/24

SC Licensed AHERA Supervisor License Number SA-01252 Expiration Date: 11/07/24

SC Licensed Air Sampler License Number AS-00287 Expiration Date: 11/07/24

SC Licensed Project Designer License Number PD-00200 Expiration Date: 08/07/25

Lowder, CHMM

SC Licensed Building Inspector License Number BI-01497 Expiration Date: 09/18/24

SC Licensed AHERA Supervisor License Number SA-00715 Expiration Date: 09/17/24

SC Licensed Mgmt Planner License Number ASB-32201 Expiration Date: 09/18/24

TABLE OF CONTENTS

1.0	INTRODUCTION AND OBJECTIVE	1
2.0	SURVEY METHODOLOGY	1
3.0	HAZARD ASSESSMENT FACTORS (ASBESTOS)	3
3.1	Homogeneous Areas	3
3.2	Hazard Factors	3
4.0	ANALYSIS AND RESULTS	4
4.1	Laboratory Analysis	4
4.2	Survey Results	4
5.0	CONCLUSIONS AND RECOMMENDATIONS	6
6.0	ASSUMPTIONS AND LIMITATIONS	7
7.0	APPENDICES	8

1.0 INTRODUCTION AND OBJECTIVE

Emerald, Inc. was requested to conduct an Asbestos Survey of the vacant residential building located at 15 Cleveland St. in Sumter, S.C., to identify the presence of any asbestos-containing materials (ACM), prior to demolition activities. The inspection was authorized by Mr. John Macloskie, Codes Director, with the City of Sumter. The inspection included identification and assessment of the condition of suspect asbestos-containing materials, either friable or non-friable, on the interior and exterior portions of the structures.

This report is a compilation of the inspection and its results.

2.0 SURVEY METHODOLOGY

On August 13, 2024, Emerald, Inc. conducted an Asbestos Survey on the building at the stated address. J. Dalton Reames, Jr., South Carolina Licensed Building Inspector, conducted the inspection.

Originally constructed circa 1935 for residential purposes, the single-story structure contains approximately 900 square feet of interior space. The basic building construction is as follows:

- Concrete Masonry Unit (CMU) Exterior Walls
 - Rustic Exterior Surfacing Material
- Wooden A-framed Roof
 - Asphaltic Shingles and Felt Paper Coverings
- Wood Floor Substrate over Earthen Crawl Space
 - Tacked Carpeting
 - Resilient Sheet Flooring Layers
- Wood-framed Walls

- Sheetrock Sections
- Wood Panel Sections
- Wood-framed Ceilings
 - Sheetrock Sections
 - Spray-applied Texture in Restroom
- No HVAC Equipment

Future use of the property, following demolition activities, is unknown.

The survey included a visual inspection to identify the presence of material suspected of containing asbestos. This identification was based on the experience and training of the inspector. A total of forty-nine (49) samples were collected during the survey for laboratory analysis, based upon the required EPA and SC DHEC sampling matrix. Samples were placed in individual containers, labeled and numbered according to the sampling schemes (15-1 through 15-49). Per SC DHEC Asbestos Regulations, the independent laboratory is required to sample all layers of each sample. As a result, forty-five (45) samples were analyzed by the lab, via Polarized Light Microscopy (PLM) while utilizing Positive Stop, and eleven (11) samples were analyzed, via Transmission Electron Microscopy (TEM). Appendix B contains the Asbestos Survey Log kept during the inspection which identifies the samples collected by sample number, sample type, location and condition assessment, along with any comments. The samples were shipped to EMSL Analytical, Inc. in Kernersville, North Carolina for analysis. Analysis and results are discussed in Section 4.0.

3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)

3.1 Homogeneous Areas

The sample collection was typically conducted by homogeneous materials, i.e., any materials of the same type regarding uniformity throughout in structure or make-up and appearance (color, texture, and/or date of construction/application). Homogeneous materials can be further classified as surfacing materials, thermal system insulation and miscellaneous materials. Miscellaneous materials include ceiling tiles, floor tiles, roofing, caulking, and glazing, etc.

3.2 Hazard Factors

The samples of suspect material collected were classified as either friable (F) or non-friable (NF). Friable means the material can be crumbled, pulverized, or reduced to powder by ordinary hand pressure. Materials initially determined to be non-friable can receive a reclassification of friable if the material is damaged, thereby providing an avenue for release of asbestos fibers. Friable asbestos-containing material (ACM) has been determined by EPA and OSHA to be a greater hazard (health risk) than non-friable ACM. In assessing the fiber release potential, the current condition of the suspect materials sampled was noted in the Asbestos Survey Log (Appendix B). The condition was denoted as good, damaged, or significantly damaged. Current condition is a factor used to assess the potential for fiber release. Other factors used to determine potential fiber release include air movement, surface type, and area activity as related to human occupancy.

3

4.0 ANALYSIS AND RESULTS

4.1 Laboratory Analysis

Bulk samples were analyzed by EMSL Analytical, Inc. using Polarized Light Microscopy (PLM) with Dispersion Staining Techniques (EPA Bulk Analysis Method 600/R-93/116). This method utilizes part of the bulk sample which is mounted on a slide and exposed to an oil of specific refractive index. This prepared slide is then subjected to a variety of optical tests.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of asbestos content are then determined through visual estimating. Although this is an estimate, any material containing greater than one percent of any type of asbestos is classified as ACM by the EPA. Any material classified as ACM must be handled accordingly.

Under the revised South Carolina Asbestos Regulation 61-86.1 effective June 27, 2008, any analysis of non-friable organically bound (NOB) material that is found to be negative via PLM testing, must have confirmation testing via Transmission Electron Microscopy (TEM) on one sample from each media; therefore, eleven (11) samples were analyzed by the lab, via TEM testing.

4.2 Survey Results

Samples were collected and tested from various suspect materials, as referenced in Appendix B, Asbestos Sample Log. Samples of roofing shingles, roofing felt, blue, mauve and burgundy carpet backings, all resilient sheet flooring types, and window glaze were verified as negative, via TEM analysis.

Appendix C contains a copy of the analytical results from the laboratory. of the analytical results from the laboratory.

4

TABLE 1 DILAPIDATED RESIDENTIAL BUILDING 15 CLEVELAND STREET SUMTER, SOUTH CAROLINA ASBESTOS-CONTAINING MATERIALS (ACM)

Description	Location	Category (F/NF)	Approx. SF/LF
Dark, Gray-colored Chimney Roof Sealant and Roof Transition Seams	Chimney Roof Flashing and Random Seams along Roof Shingle Transitions	NF – Cat. I – Good Condition	30 LF

Note: F - Friable

NF - Non-Friable

EMERALD, INC., CONDUCTED THE SURVEY TO THE BEST OF ITS ABILITY, ADHERING TO INDUSTRY STANDARDS. THE QUANTITIES PROVIDED IN THIS REPORT ARE APPROXIMATE AND SHALL SERVE AS A BASIS FOR ABATEMENT BID SUBMITTALS. IF ADDITIONAL SUSPECT MATERIALS ARE IDENTIFIED DURING RENOVATION OR DEMOLITION ACTIVITY, THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE BUILDING OWNER'S REPRESENTATIVE.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the inspection of August 13, 2024, and the analytical results from the samples collected and tested by an independent laboratory, the dilapidated residential building located at 15 Cleveland St. in Sumter, S.C., does contain non-friable ACM, as per Table 1. Such materials will have to be removed and properly disposed by a S.C. licensed abatement contractor per SC DHEC Bureau of Air Quality Asbestos Regulation 61-86.1 effective May 27, 2011, prior to demolition activities involving the asbestos-containing materials.

6.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection of August 13, 2024. Emerald, Inc., their representative and this report make no representation and/or assumptions as to past conditions or future occurrences. The information, conclusions and recommendations provided herein do not constitute as legal or medical advice. It is further understood that Emerald, Inc. makes no representations or warranties of any kind. Nor are such representations or warranties to be implied with respect to the data furnished. Emerald, Inc. assumes no responsibility with respect to the customers and its employees use thereof.

The information provided herein applies only to the subject property as it existed during Emerald, Inc.'s site visit. If this site's use and/or conditions change, information, observations and recommendations found herein would no longer apply. This report is intended to be used in its entirety. No excerpts may be taken to typify the findings of this survey. Emerald, Inc. shall not be liable for any special, consequential and/or exemplary damages resulting, in whole or in part, from the customer's use of the data provided. It was not within the scope of this investigation to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Our selection of sample locations and frequency is based upon our observations and the assumption that like materials in the same are homogeneous.

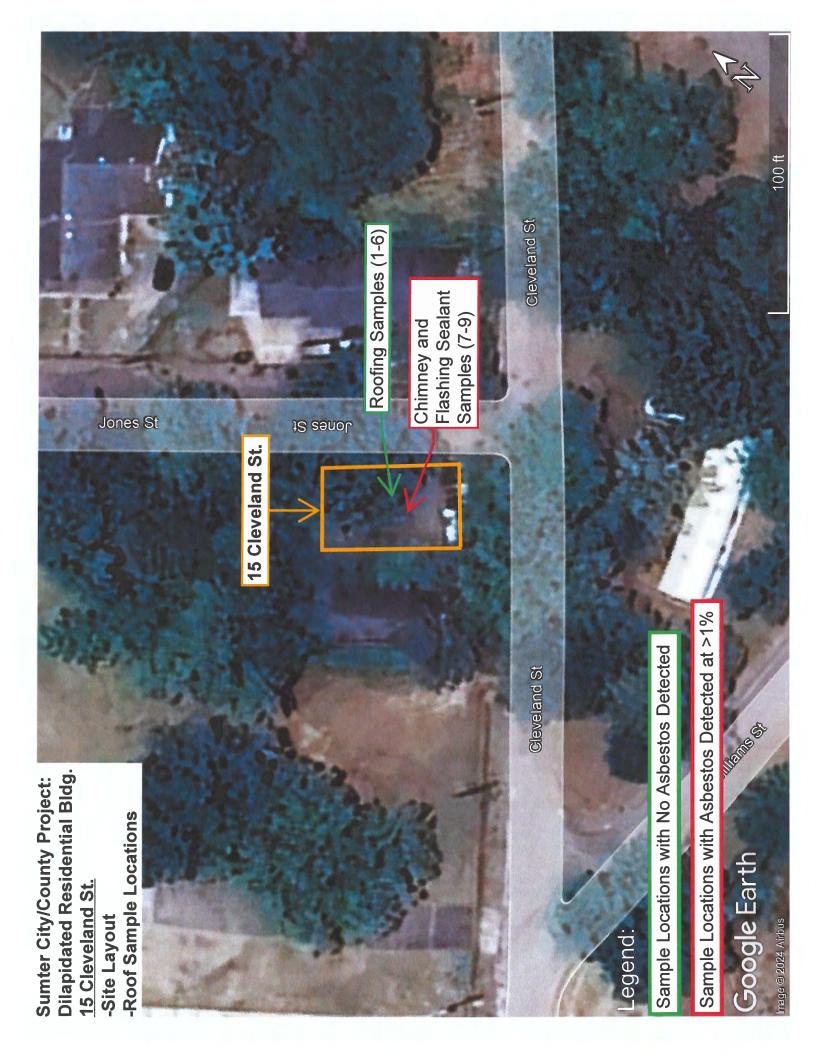
Emerald, Inc. conducted the survey to the best of its ability using the standards of the industry. In the event additional materials are found to contain asbestos, Emerald, Inc. shall not be liable for any failure of such findings during its initial survey.

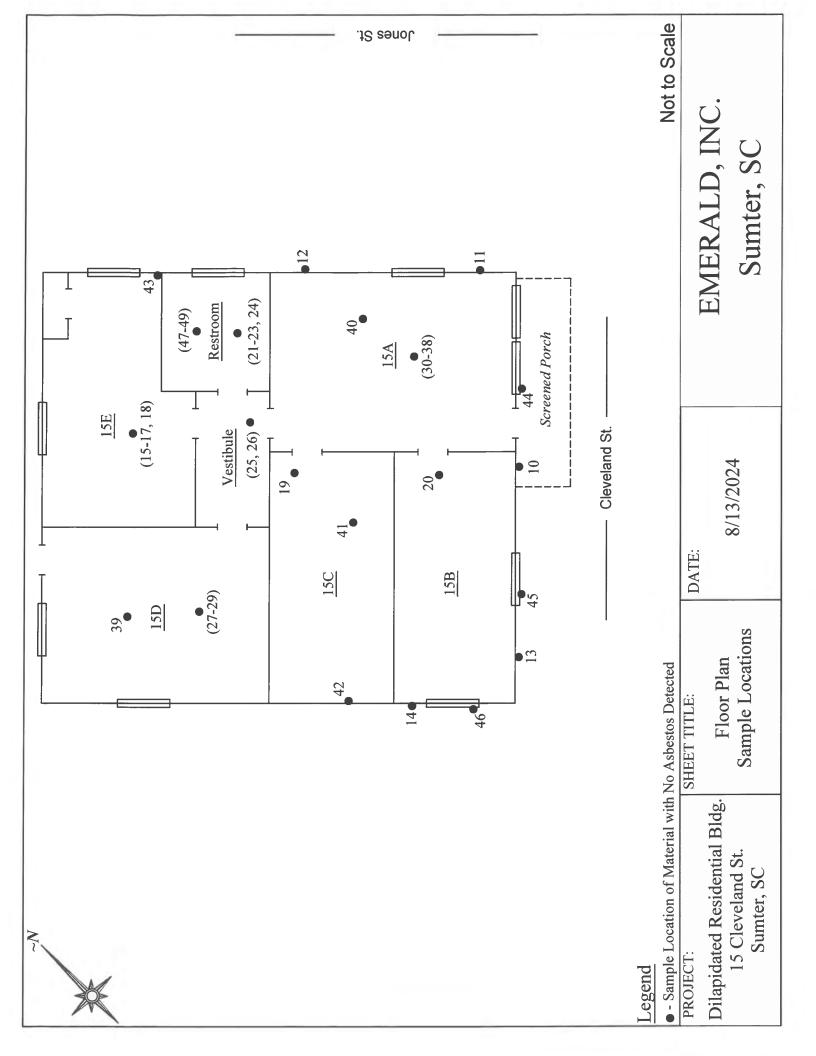
7

7.0 APPENDICES

APPENDIX A.	Site Plan
APPENDIX B.	Asbestos Sample Log
APPENDIX C.	Chain of Custody & Analytical Results
APPENDIX D.	Building Inspector Licenses
APPENDIX E.	Site Photographs

APPENDIX A SITE PLAN





APPENDIX B

ASBESTOS SAMPLE LOG

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 15 Cleveland St. ADDRESS: 15 Cleveland St., Sumter, S.C.

DATE: 8/13/2024 INSPECTOR: Dalton Reames

NCE	AIR EROSION	M																						
POTENTIAL FOR FUTURE DISTURBANCE	All	Т		×			×	1		×				×	1			×			×	1		
JRE DIS	lon	-																						Potential for Future Disturbance H= High M= Moderate L= Low
DR FUTI	VIBRATION	Σ																						ure Dist
TIAL FC		H		×			×			×				×				×			×			l for Fut erate
POTEN	CONTACT	W	-					\vdash		-	-	\vdash												<u>Potential for F</u> H= High M= Moderate L= Low
	CON	H		 ×			 ×			×				×				×			×			<u>ц</u> т с ј
	X.			SF			SF			SF								щ			Ľ,			
	APPROX.	SF/LF		1,205 SF			1,205 SF			1,205 SF				1,800 SF				155 SF			430 SF			
		F/NF		RF			NF			NF				щ				NF			NF			<u>E/NF</u> F= Friable NF= Non Friable
		TYPE		Σ			Σ			Σ				s			Σ			Σ				<u>E/NF</u> F= Fri NF= N
		CONDITION		U			U			U				IJ				U			U			
		DESCRIPTION		Brown Roof Shingles			Roofing Felt Paper		Chimnev. Roof Patch and Flashing	Sealant Material	(Dark Gray Color)		-	Rustic-design Exterior Block Surfacing Material				Backing of Blue Carpet			Backing of Mauve and Green Carpet	-	Asbestos detected at 8% in dark gray rooftop sealant material.	<u>Type</u> S= Surface TSI= Thermal Systems Insulation M= Miscellaneous
		EXACT								Flashing								Floor			Floor		3% in dark	
LOCATION		ROOM		Roof			Roof			Rooftop Chimney and Flashing Seams				Exterior Walls				15E		15E	15C	158	tected at {	
		FLOOR								Rooftop Ch				EX				First			First		Asbestos de	iy Damaged
		SAMPLE #	15-1	15-2	15-3	15-4	15-5	15-6	15-7	15-8	15-9	15-10	15-11	15-12	15-13	15-14	15-15	15-16	15-17	15-18	15-19	15-20	Note:	<u>Condition</u> G= Good D= Damaged SD= Significantly Damaged

Page 1 of 3

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 15 Cleveland St. ADDRESS: 15 Cleveland St., Sumter, S.C.

DATE: <u>8/13/2024</u> INSPECTOR: <u>Dalton Reames</u>

		LOCATION								POT	ENTIAL	FOR FL	UTURE	DISTUI	POTENTIAL FOR FUTURE DISTURBANCE		
								APPROX.	0	CONTACT		VIBF	VIBRATION	-	AIR EROSION	OSION	
SAMPLE #	FLOOR	ROOM	EXACT	DESCRIPTION	CONDITION	ТҮРЕ	F/NF	SF/LF	н	W		н	M	L	H	Σ	-
15-21															-		
15-22	First	Restroom	Floor	Cream-colored Sheet Flooring	U	Σ	NF	56 SF	×			×			×	-	
15-23																	
15-24		Restroom													-	-	
15-25	First	Vestibule	Floor	Herring Bone, Wood-design Sheet Flooring	ŋ	Σ	ΝF	96 SF	×			×			 ×	-	
15-26		Vestibule															
15-27															-		
15-28	First	15D (Kitch)	Floor	Cream-colored Kitchen Sheet Flooring	U	Σ	NF	221 SF	×			×			×	\vdash	
15-29				0											<u> </u>	\vdash	
15-30															-	-	
15-31	First	15A	Top Layer of Carpet	Backing of Green Carpet	IJ	Σ	NF	160 SF	×			×			×		
15-32																\vdash	
15-33			Middle	-													
15-34	First	15A	Layer of	Backing of Burgundy, Geometric- design Carpet	U	Σ	NF	160 SF	×			×			×		
15-35			Flooring														
15-36			Bottom													-	
15-37	First	15A	Layer of	Blue Stylized-design Sheet Flooring	IJ	Σ	NF	160 SF	×			×			×		
15-38			Flooring													-	
																\vdash	
Condition G= Good				<u>Type</u> S= Surface TCI_Thomas Isotomic Inculation		<u>F- Fri</u>	<u>F/NF</u> F= Friable Mr- Mon Frichto			Potentia H= High	tial for F th	uture D	Potential for Future Disturbance H= High	ince			
u= uamageu SD= Significant	บ= บสเกลซอน SD= Significantly Damaged	_		M= Miscellaneous			NF= NON Friable	2)		M= Moc L= Low	IVI= Moderate L= Low						

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 15 Cleveland St. ADDRESS: 15 Cleveland St., Sumter, S.C.

DATE: 8/13/2024 INSPECTOR: Dalton Reames

CE	AIR EROSION	M																		
POTENTIAL FOR FUTURE DISTURBANCE	AIR	н			×				×			×								
RE DIST	NO	L																		rbance
R FUTU	VIBRATION	M																		Potential for Future Disturbance H= High M= Moderate L= Low
FIAL FO		н	-		×				×			×								<u>for Futu</u> trate
POTEN'	CONTACT	M	\vdash							-	-		-	-						<u>Potential for F</u> H= High M= Moderate L= Low
	CON	H	-	L	×				×		\vdash	 ×					-			
	X.					_														
	APPROX.	SF/LF			2,815 SF				384 LF			56 SF								
		F/NF			ш				NF			ш								<u>E/NF</u> F= Friable NF= Non Friable
		TYPE			s				Σ			S								<u>E/NF</u> F= Fri; NF= N
		CONDITION			SD				ŋ			SD								
		DESCRIPTION			Sheetrock Ceiling and Wall System				Exterior Window Glaze			Spray-applied Ceiling Texture								<u>Type</u> S= Surface TSI= Thermal Systems Insulation M= Miscellaneous
		EXACT	Ceiling	Ceiling	Ceiling	Wall	Wall		/ Units			Ceiling								
LOCATION		ROOM	15D	15A	15C	15C	15E		Window Units			Restroom								
		FLOOR			First				Exterior			First								ly Damaged
		SAMPLE #	15-39	15-40	15-41	15-42	15-43	15-44	15-45	15-46	15-47	15-48	15-49							<u>Condition</u> G= Good D= Damaged SD= Significantly Damaged

Page 3 of 3

APPENDIX C

CHAIN OF CUSTODY & ANALYTICAL RESULTS



EMSL Analytical, Inc.

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

 Attention:
 Ronny Lowder

 Emerald, Inc.
 2520 Tahoe Drive

 PO Box 3050
 Sumter, SC 29151

 Project:
 Sumter County Project : 15 Cleveland St. (Sumter County)

EMSL Order: 022404651 Customer ID: EMER51 Customer PO: Project ID: Sumter County

Phone:	(803) 469-5454
Fax:	(803) 775-1970
Received Date:	08/14/2024 9:20 AM
Analysis Date:	08/20/2024
Collected Date:	

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
15-3 022404651-0038	Roofing Felt	Brown/Black/Orange Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
15-6 022404651-0039	Roofing Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
15-17 022404651-0040	Blue Carpet - Backing	Blue/Yellow/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
15-20 022404651-0041	Mauve Carpet - Backing	Gray/Red/Yellow Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
15-23 022404651-0042	Restroom Sheet Flooring	Tan/White/Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
15-26 022404651-0043	Herring Bone Sheet Flooring	Brown/Gray/Tan Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
15-29 022404651-0044	Kitchen Sheet Flooring	Gray/Tan/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
15-32 022404651-0045	Green Carpet - Backing	White/Yellow/Green Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
15-35 022404651-0046	Burgundy Carpet - Backing	Brown/Tan/Rust Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
15-38 022404651-0047	Blue Sheet Flooring	Tan/Black/Green Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
15-46 022404651-0048	Window Glaze	Gray/Green/Beige Non-Fibrous Homogeneous	99.8 Other	0.20 Fibrous_Other	No Asbestos Detected

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met

method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/23/2024 16:54:35

ASB_PLMEPANOB_0012_0002 Printed 8/23/2024 4:56:00PM

Contractor and the second	EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284	EMSL Order: Customer ID: Customer PO:	
	Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com	Project ID:	Sumter County
Attention:	Ronny Lowder	Phone:	(803) 469-5454
	Emerald, Inc.	Fax:	(803) 775-1970
	2520 Tahoe Drive	Received Date:	08/14/2024 9:20 AM
	PO Box 3050	Analysis Date:	08/20/2024
	Sumter, SC 29151	Collected Date:	
Project:	Sumter County Project : 15 Cleveland St. (Sumter County)		

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

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

Analyst(s)

Stephen Bennett (11)

In ho

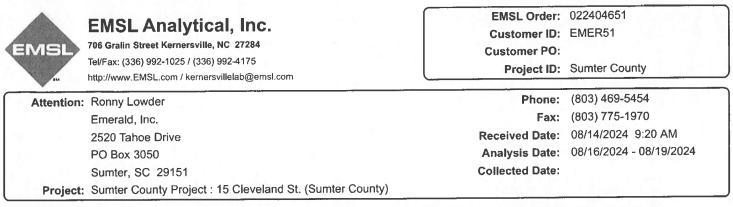
Stephen Bennett, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/23/2024 16:54:35

ASB_PLMEPANO8_0012_0002 Printed 8/23/2024 4:56:00PM



Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes	itos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
15-1	Roofing Shingles	Gray/Black Fibrous Heterogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
15-2	Roofing Shingles	Tan/Black/Orange Fibrous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
022404651-0002		Heterogeneous			
15-4	Roofing Felt	Black Fibrous	60% Cellulose	40% Non-fibrous (Other)	None Detected
022404651-0003		Homogeneous			Nena Datastad
15-5	Roofing Felt	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
	01/100000000000000000000000000000000000	· · · · ·	2% Cellulose	90% Non-fibrous (Other)	8% Chrysotile
15-7	Chimney Sealant	Gray/Black Fibrous Homogeneous	2% Cenulose	90% Non-horous (Onler)	070 Ginysoure
15-8	Chimney Sealant	Themegeneous			Positive Stop (Not Analyzed)
022404651-0006	and the last second	all a second			
15-10	Exterior Wall Surfacing	Gray/White Non-Fibrous	<1% Cellulose 10% Glass	40% Quartz 5% Ca Carbonate	None Detected
022404651-0007		Homogeneous		45% Non-fibrous (Other)	
15-11	Exterior Wall Surfacing	Gray/White Non-Fibrous	<1% Cellulose 10% Glass	40% Quartz 5% Ca Carbonate	None Detected
022404651-0008		Homogeneous		45% Non-fibrous (Other)	
15-12	Exterior Wall Surfacing	Gray/White Non-Fibrous	<1% Cellulose 5% Glass	40% Quartz 5% Ca Carbonate	None Detected
022404651-0009		Homogeneous	101 0 11 1	50% Non-fibrous (Other)	None Detected
15-13 022404651-0010	Exterior Wall Surfacing	White/Beige Non-Fibrous Heterogeneous	<1% Cellulose 3% Glass	45% Quartz 10% Ca Carbonate 42% Non-fibrous (Other)	None Detected
	Exterior Wall	White/Beige	<1% Cellulose	40% Quartz	None Detected
15-14 022404651-0011	Surfacing	Non-Fibrous Heterogeneous	3% Glass	10% Ca Carbonate 47% Non-fibrous (Other)	None Decored
15-15	Blue Carpet - Backing	Beige/Clear Fibrous	90% Synthetic	10% Non-fibrous (Other)	None Detected
022404651-0012		Homogeneous			
15-16	Blue Carpet - Backing	White/Blue/Beige Fibrous	<1% Cellulose 90% Synthetic	10% Non-fibrous (Other)	None Detected
022404651-0013		Heterogeneous	102223		
15-18	Mauve Carpet - Backing	Beige/Clear Fibrous	90% Synthetic	10% Non-fibrous (Other)	None Detected
022404651-0014		Homogeneous			
15-19	Mauve Carpet - Backing	Red/Yellow/Beige Fibrous	<1% Cellulose 90% Synthetic	10% Non-fibrous (Other)	None Detected
022404651-0015		Heterogeneous			
15-21	Restroom Sheet Flooring	Beige Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected

Initial report from: 08/19/2024 17:51:38

ASB_PLM_0008_0002 - 2.31 Printed: 8/19/2024 5:51 PM



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404651 Customer ID: EMER51 Customer PO: Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes		Asbestos
ample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
5-22 22404851-0017	Restroom Sheet Flooring	Tan/Green/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15-24	Herring Bone Sheet Flooring	Brown/Tan Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
022404651-0018	Flooring	Heterogeneous			
5-25	Herring Bone Sheet Flooring	Brown/Gray/Tan Fibrous	30% Cellulose 1% Glass	69% Non-fibrous (Other)	None Detected
22404651-0019		Heterogeneous			
5-27	Kitchen Sheet Flooring	Gray/Tan/Beige Fibrous	20% Cellulose 1% Synthetic	78% Non-fibrous (Other)	None Detected
22404651-0020		Heterogeneous	1% Glass	60% Non fibrous (Other)	None Detected
15-28	Kitchen Sheet Flooring	Gray/Blue/Beige Fibrous Heterogeneous	30% Cellulose 1% Synthetic <1% Glass	69% Non-fibrous (Other)	None Detected
15-30	Green Carpet -	Beige	90% Synthetic	10% Non-fibrous (Other)	None Detected
722404651-0022	Backing	Fibrous Homogeneous	oo no Synahoad		
15-31	Green Carpet - Backing	Yellow/Green/Beige Fibrous	<1% Cellulose 90% Synthetic	10% Non-fibrous (Other)	None Detected
022404651-0023	4	Heterogeneous			
15-33	Burgundy Carpet - Backing	Tan/Beige Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
22404651-0024		Homogeneous			
15-34	Burgundy Carpet - Backing	Brown/Tan/Beige Fibrous	95% Cellulose 1% Synthetic	4% Non-fibrous (Other)	None Detected
022404651-0025		Heterogeneous			None Detected
15-36	Blue Sheet Flooring	Tan/Black/Green Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
	Blue Sheet Flooring	Tan/Black/Blue	40% Cellulose	60% Non-fibrous (Other)	None Detected
15-37	Dide Sheet Flooring	Fibrous Heterogeneous	40 % Celibiose		
15-39-Joint Compound	Sheetrock System	White		30% Ca Carbonate	None Detected
022404651-0028		Non-Fibrous Homogeneous		70% Non-fibrous (Other)	
15-39-Tape	Sheetrock System	Beige Fibrous	100% Cellulose		None Detected
022404651-0028A		Homogeneous			
15-39-Sheetrock	Sheetrock System	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
022404651-0028B	Chaotrack Curtan	Heterogeneous		30% Ca Carbonate	None Detected
15-40-Joint Compound	Sheetrock System	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	
15-40-Tape	Sheetrock System	Beige Fibrous	100% Cellulose		None Detected
022404651-0029A		Homogeneous			
15-40-Sheetrock	Sheetrock System	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
022404651-0029B		Heterogeneous	and the Maria		
15-41-Joint Compound	Sheetrock System	White Non-Fibrous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022404651-0030		Homogeneous			
15-41-Tape	Sheetrock System	Beige Fibrous	100% Cellulose		None Detected
022404651-0030A		Homogeneous			

Initial report from: 08/19/2024 17:51:38

ASB_PLM_0008_0002 - 2.31 Printed: 8/19/2024 5:51 PM



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175

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

EMSL Order: 022404651 Customer ID: EMER51 Customer PO: Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
15-41-Sheetrock	Sheetrock System	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
15-42-Joint Compound	Sheetrock System	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
15-42-Sheetrock	Sheetrock System	Brown/Gray Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
15-43-Joint Compound	Sheetrock System	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
15-43-Tape 022404651-0032A	Sheetrock System	Beige Fibrous Homogeneous	100% Cellulose		None Detected
15-43-Sheetrock	Sheetrock System	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
15-44	Window Glaze	White/Beige Non-Fibrous Homogeneous	<1% Cellulose 1% Fibrous (Other)	10% Ca Carbonate 89% Non-fibrous (Other)	None Detected
15-45	Window Glaze	Brown/Green/Beige Non-Fibrous Heterogeneous	2% Cellulose <1% Fibrous (Other)	10% Ca Carbonate 88% Non-fibrous (Other)	None Detected
15-47	Ceiling Texture	Gray/White Non-Fibrous Homogeneous	5% Cellulose	30% Ca Carbonate 65% Non-fibrous (Other)	None Detected
15-48	Ceiling Texture	White Non-Fibrous Homogeneous	5% Cellulose	30% Ca Carbonate 65% Non-fibrous (Other)	None Detected
15-49	Ceiling Texture	Gray/White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected

Analyst(s)

Nicole MacDowell (26) Scott Combs (19)

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, Virginia 3333-000228, West Virginia LT000321

Initial report from: 08/19/2024 17:51:38

ASB_PLM_0008_0002 - 2.31 Printed: 8/19/2024 5:51 PM

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



DARYOYLEST

PHONE: FAX:

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Company Name : Emer	ald, Inc.	지 이야 한 것이 같아.	EMSL Custo	omer ID:					
Street: P.O. Box 3050			City: Sumte		State/Provin	nce: SC			
Zip/Postal Code: 29151		Country: US	Telephone #	803-469-54	54 Fax #: 803-	469-5465			
Report To (Name): Ronn	y Lowder		Please Prov	ide Results:	🗌 Fax 🗹 Email				
Email Address: rlowder	@emeraldi	nc-us.com	Purchase O	rder:					
Project Name/Number: S	Sumter County F			ct ID (Interna					
U.S. State Samples Take		ill to: 🔽 Same 🔲 Different -				dential/Tax Exempt			
	EMSL-D	Third Party Billing requires writ							
		Turnaround Time (TAT)							
	Hour [24 Hour 48 Hour 48 Hour 48 Hour 48 Hour	n charge for 3 Ho		6 Hour 1 Week				
authorization form t	for this service.	Analysis completed in accordance	with EMSL's Terr	ms and Conditio	ns located in the Analytical	Price Guide.			
PCM - Air Check if san	nples are	TEM – Air 4-4.5hr TAT (AHERA only)	TEM- Dust					
NIOSH 7400		AHERA 40 CFR, Part 76	3	Microva	c - ASTM D 5755				
w/ OSHA 8hr. TWA		NIOSH 7402		Wipe - A	STM D6480				
PLM - Bulk (reporting lim	nit)	EPA Level II		Carpet S	Sonication (EPA 600/J-	93/167)			
PLM EPA 600/R-93/116	ô (<1%)	ISO 10312		-	Vermiculite				
PLM EPA NOB (<1%)		TEM - Bulk			A 600/R-93/116 with m				
Point Count	(-0.49/)				A 600/R-93/116 with m A 600/R-93/116 with m				
400 (<0.25%) 1000 Point Count w/Gravimetric		NYS NOB 198.4 (non-fria	DIE-INT)		alitative via Filtration P				
400 (<0.25%) 1000		TEM Mass Analysis-EPA	600 sec. 2.5		alitative via Drop Mour				
NYS 198.1 (friable in N		TEM - Water: EPA 100.2		Concession of the local division of the loca	ati Method EPA 600/R-	04/004 - PLM/TEM			
NYS 198.6 NOB (non-1		Fibers >10µm Waste	Drinking	(BC only) Other:					
NYS 198.8 SOF-V						12.1.0			
NIOSH 9002 (<1%)		All Fiber Sizes Waste							
Check For Positive St	op – Clearly	Identify Homogenous Group	p Filter	Pore Size (A	ir Samples): 0.8	um 0.45µm			
Samplers Name: Dalt	on Rea	mes	Samplers	Signature:	Delete	and			
Sample #		Sample Descripti	on		Volume/Area (Air) HA # (Buik)	Date/Time Sampled			
	Deparint					8/13/2024			
	Descript	ions on Following Page	33			0/13/2024			
						And Second States			
Client Sample # /el: 15	01-12 0-15 1 thru 15 49								
Client Sample # (s): 15-1 thru 15-49 - Total # of Samples: 49									
	-1 thru 15	2-10-	Q1-	1.		17			
Relinquished (Client):	-1 thru 15	-49 	8/13	2/2024		1750			
Relinquished (Client):	-1 thru 15	2-10-	8.111	1.	1	: 1700			
Received (Lab); Comments/Special Instru	Swa	Date	8.111	1.	Time	: 1700			
Received (Lab); 20	Swa	Date	8.111	1.	Time	: 1700			
Received (Lab); Comments/Special Instru	Swa	Date	: 814.	1.	Time	: 1700			
Received (Lab); Comments/Special Instru	Swa	Date	: 814.	1.	Time	: 1700			
Received (Lab); Comments/Special Instru	Swe Juctions: 8 75	Date	: 814.	1.	Time	: 1700			

4657

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49



Received:

Relinquished:

Received:

Relinquished:

Client Sample # (s)

CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

Date:

Date:

Date:

Date

Total Samples #:

Time:

Time: Time:

Time:

15-1 thru 15-49

EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284

Phone. (336) 992-1025 Fax: (336) 992-4175 http://www.emsl.com

Roofing Shingles	
**	
Roofing Feit	
U	
Chimney Sealant	
0	
Exterior Wall Surfacing	
0	
Blue Carpet - Backing	
Mauve Carpet - Backing	
0	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
	1 day and a second s
Restroom Sheet Flooring	
Herring Bone Sheet Flooring	
Kitchen Sheet Flooring	
19	
Green Carpet - Backing	
	·
Burgundy Carpet - Backing	
	Tavad
- Sumple All	Legres
	Chimney Sealant " Chimney Sealant " Exterior Wall Surfacing " Exterior Wall Surfacing " Exterior Wall Surfacing " " Blue Carpet - Backing " Mauve Carpet - Backing " Mauve Carpet - Backing " Restroom Sheet Flooring " Kitchen Sheet Flooring " Kitchen Sheet Flooring " Kitchen Sheet Flooring " Burgundy Carpet - Backing " Blue Sheet Flooring " Sheetrock System " Carpet - Street Flooring " Carpet - Backing " Carpet - Backin

2 of 3

FMSI

46

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284

Phone: (336) 992-1025 Fax: (336) 992-4175 http://www.emsl.com

CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

SAMPLE NUMBER	SAMPLE DESCRIPTION Window Glaze	VOLUME (if applicable)
15-44	Window Glaze	
15-44 15-45	"	
15-47 15-48 15-49	N	
15-47	Ceiling Texture	
15-48		
15-49	U	
	······································	



APPENDIX D

BUILDING INSPECTOR LICENSES



SCDHEC ISSUED Asbestos ID Card

RONNY LOWDER



CONSULTMP ASB-32201 CONSULTBI BI-01497 SUPERAHERA SA-00715

.

Expiration Date: 09/18/24 09/18/24 09/17/24



1



John Dalton Reames, Jr.



.

AIRSA CONS CONS SUPE

AIRSAMPLER CONSULTBI CONSULTPD SUPERAHERA AS-00287 BI-00945 PD-00200 SA-01252 **Expiration Date:**

11/07/24 11/06/24 08/07/25

11/07/24

APPENDIX E

SITE PHOTOGRAPHS



Photo #4 View Depicting Dilapidated Building Conditions



Photo #3 View Depicting Roof Area: Dark Gray Sealant at Chimney & Seams Contains Asbestos



Photo #2 No Asbestos Detected in Exterior Wall Surfacing Material

Photo #1 West-facing View Depicting the Front of the Residential Structure



Sumter City/County Project: 15 Cleveland St., Sumter, S.C.

Photo #8 View Depicting CMU Wall Blocks at the Rear of Room 15D (Kitchen)



Photo #7 No Asbestos Detected in Spray-applied Ceiling Texture of Restroom Ceiling





Photo #6 No Asbestos Detected in Sheetrock Ceiling and Wall System

Photo #7 bestos Detected in Spray-applied



Photo #5 No Asbestos Detected in Any Floor Covering Emerald, Inc. CONSULTING AND ENGINEERING SERVICES IN ENVIRONMENTAL AFFAIRS

2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE: www.emeraldinc-us.com

TELEPHONE (803) 469-5454 FAX (803) 469-5465

ASBESTOS SURVEY REGARDING SUMTER CITY/COUNTY PROJECT DILAPIDATED RESIDENTIAL BUILDING 17 CLEVELAND STREET SUMTER, SOUTH CAROLINA



Prepared for:

City of Sumter P.O. Box 1449 Sumter, South Carolina 29151

Prepared by:

Emerald, Inc. P.O. Box 3050 Sumter, South Carolina 29151

Date of Inspection: August 13, 2024 Date of Report: August 26, 2024

FOREWORD

This report was prepared by Emerald, Inc. of Sumter, South Carolina, for the City of Sumter, regarding the dilapidated residential building located at 17 Cleveland St. in Sumter, S.C. The contents of this report are confidential and intended for the use of the client only.

J. Dalton Reames, Jr., S.C. Licensed Building Inspector, conducted the inspection, and Ronny L. Lowder, S.C. Licensed Building Inspector and Management Planner, prepared this report. Any questions or comments concerning this report should be directed to Ronny L. Lowder at either (803) 469-5454 or via email at rlowder@emeraldincus.com.

J. Dalton Reames.

SC Licensed Building Inspector License Number BI-00945 Expiration Date: 11/06/24

SC Licensed AHERA Supervisor License Number SA-01252 Expiration Date: 11/07/24

SC Licensed Air Sampler License Number AS-00287 Expiration Date: 11/07/24

SC Licensed Project Designer License Number PD-00200 Expiration Date: 08/07/25

Lowder, CHMM

SC Licensed Building Inspector License Number BI-01497 Expiration Date: 09/18/24

SC Licensed AHERA Supervisor License Number SA-00715 Expiration Date: 09/17/24

SC Licensed Mgmt Planner License Number ASB-32201 Expiration Date: 09/18/24

TABLE OF CONTENTS

1.0	INTRODUCTION AND OBJECTIVE	1
2.0	SURVEY METHODOLOGY	1
3.0	HAZARD ASSESSMENT FACTORS (ASBESTOS)	3
3.1	Homogeneous Areas	3
3.2	Hazard Factors	3
4.0	ANALYSIS AND RESULTS	3
4.1	Laboratory Analysis	3
4.2	Survey Results	4
5.0	CONCLUSIONS AND RECOMMENDATIONS	6
6.0	ASSUMPTIONS AND LIMITATIONS	7
7.0	APPENDICES	8

1.0 INTRODUCTION AND OBJECTIVE

Emerald, Inc. was requested to conduct an Asbestos Survey of the vacant residential building located at 17 Cleveland St. in Sumter, S.C., to identify the presence of any asbestos-containing materials (ACM), prior to demolition activities. The inspection was authorized by Mr. John Macloskie, Codes Director, with the City of Sumter. The inspection included identification and assessment of the condition of suspect asbestos-containing materials, either friable or non-friable, on the interior and exterior portions of the structures.

This report is a compilation of the inspection and its results.

2.0 SURVEY METHODOLOGY

On August 13, 2024, Emerald, Inc. conducted an Asbestos Survey on the building at the stated address. J. Dalton Reames, Jr., South Carolina Licensed Building Inspector, conducted the inspection.

Originally constructed circa 1935 for residential purposes, the single-story structure contains approximately 650 square feet of interior space. The basic building construction is as follows:

- Wood Slat Exterior Walls over Wood Framework
 - Fiberboard Planks over Wood Slats
- Wooden A-framed Roof
 - Asphaltic Shingles and Felt Paper Coverings
 - Chimney Flashing Sealant is Presumed to Contain Asbestos
- Wood Floor Substrate over Earthen Crawl Space
 - Tacked Carpeting
 - Resilient Sheet Flooring Layers

- Wood-framed Walls Covered with Wood Panels
- Wooden Ceiling Components Covered with Sheetrock Sections
- No HVAC Equipment

Future use of the property, following demolition activities, is unknown.

The survey included a visual inspection to identify the presence of material suspected of containing asbestos. This identification was based on the experience and training of the inspector. A total of forty-five (49) samples were collected during the survey for laboratory analysis, based upon the required EPA and SC DHEC sampling matrix. Samples were placed in individual containers, labeled and numbered according to the sampling schemes (17-1 through 17-45). Per SC DHEC Asbestos Regulations, the independent laboratory is required to sample all layers of each sample. As a result, forty-one (41) samples were analyzed by the lab, via Polarized Light Microscopy (PLM) while utilizing Positive Stop, and fifteen (15) samples were analyzed, via Transmission Electron Microscopy (TEM). Appendix B contains the Asbestos Survey Log kept during the inspection which identifies the samples collected by sample number, sample type, location and condition assessment, along with any comments. The samples were shipped to EMSL Analytical, Inc. in Kernersville, North Carolina for analysis. Analysis and results are discussed in Section 4.0.

3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)

3.1 Homogeneous Areas

The sample collection was typically conducted by homogeneous materials, i.e., any materials of the same type regarding uniformity throughout in structure or make-up and appearance (color, texture, and/or date of construction/application). Homogeneous materials can be further classified as surfacing materials, thermal system insulation and miscellaneous materials. Miscellaneous materials include ceiling tiles, floor tiles, roofing, caulking, and glazing, etc.

3.2 Hazard Factors

The samples of suspect material collected were classified as either friable (F) or non-friable (NF). Friable means the material can be crumbled, pulverized, or reduced to powder by ordinary hand pressure. Materials initially determined to be non-friable can receive a reclassification of friable if the material is damaged, thereby providing an avenue for release of asbestos fibers. Friable asbestos-containing material (ACM) has been determined by EPA and OSHA to be a greater hazard (health risk) than non-friable ACM. In assessing the fiber release potential, the current condition of the suspect materials sampled was noted in the Asbestos Survey Log (Appendix B). The condition was denoted as good, damaged, or significantly damaged. Current condition is a factor used to assess the potential for fiber release. Other factors used to determine potential fiber release include air movement, surface type, and area activity as related to human occupancy.

4.0 ANALYSIS AND RESULTS

4.1 Laboratory Analysis

Bulk samples were analyzed by EMSL Analytical, Inc. using Polarized Light

Microscopy (PLM) with Dispersion Staining Techniques (EPA Bulk Analysis Method 600/R-93/116). This method utilizes part of the bulk sample which is mounted on a slide and exposed to an oil of specific refractive index. This prepared slide is then subjected to a variety of optical tests.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of asbestos content are then determined through visual estimating. Although this is an estimate, any material containing greater than one percent of any type of asbestos is classified as ACM by the EPA. Any material classified as ACM must be handled accordingly.

Under the revised South Carolina Asbestos Regulation 61-86.1 effective June 27, 2008, any analysis of non-friable organically bound (NOB) material that is found to be negative via PLM testing, must have confirmation testing via Transmission Electron Microscopy (TEM) on one sample from each media; therefore, fifteen (15) samples were analyzed by the lab, via TEM testing.

4.2 Survey Results

Samples were collected and tested from various suspect materials, as referenced in Appendix B, Asbestos Sample Log. Samples of Room 17B top-layer sheet flooring, Room 17C sheet flooring, top layer of sheet flooring in Vestibule, Restroom sheet flooring, Room 17E top-layer sheet flooring, Room 17D sheet flooring, backings of carpets, roof shingles and roofing felt were verified as negative, via TEM analysis.

Appendix C contains a copy of the analytical results from the laboratory. of the analytical results from the laboratory.

4

TABLE 1 DILAPIDATED RESIDENTIAL BUILDING 17 CLEVELAND STREET SUMTER, SOUTH CAROLINA ASBESTOS-CONTAINING MATERIALS (ACM)

Description	Location	Category (F/NF)	Approx. SF/LF
Vestibule Area Bottom-layer, Rustic,	Bottom Layer of Sheet Flooring	NF – Cat. I –	50 SF
Yellow-colored Sheet Flooring	in the Vestibule Area	Good Condition	
Room 17E Bottom-layer, Yellowish	Bottom Layer of Sheet Flooring	NF – Cat. I –	104 SF
Sheet Flooring	in Room 17E	Good Condition	
Chimney Flashing Material ⁽¹⁾	Chimney Penetration of Roof	Presumed Asbestos- containing Material (PACM) NF – Cat. I – Good Condition	12 LF

- Note: F Friable
 - NF Non-Friable
 - Chimney Flashing Material could not be sampled, due to steep and hazardous conditions of the roof structure; therefore, the material is presumed to contain asbestos.
 - (2) Asbestos detected at <0.17% in bottom-layer sheet flooring in Room 17B, via TEM analysis.
 - (3) Asbestos detected at <0.32% in window glaze, via TEM analysis.

EMERALD, INC., CONDUCTED THE SURVEY TO THE BEST OF ITS ABILITY, ADHERING TO INDUSTRY STANDARDS. THE QUANTITIES PROVIDED IN THIS REPORT ARE APPROXIMATE AND SHALL SERVE AS A BASIS FOR ABATEMENT BID SUBMITTALS. IF ADDITIONAL SUSPECT MATERIALS ARE IDENTIFIED DURING RENOVATION OR DEMOLITION ACTIVITY, THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE BUILDING OWNER'S REPRESENTATIVE.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the inspection of August 13, 2024, and the analytical results from the samples collected and tested by an independent laboratory, the dilapidated residential building located at 17 Cleveland St. in Sumter, S.C., does contain non-friable ACM, as per Table 1. Such materials will have to be removed and properly disposed by a S.C. licensed abatement contractor per SC DHEC Bureau of Air Quality Asbestos Regulation 61-86.1 effective May 27, 2011, prior to demolition activities involving the asbestos-containing materials.

Regarding materials with asbestos detected at <1%, via TEM analysis, SC DHEC, now known as the South Carolina Department of Environmental Services (SC DES), and the Environmental Protection Agency (EPA) do not consider such materials as ACM; however, the Occupational Safety and Health Administration (OSHA) regulations require employers to provide a workplace having asbestos exposures below the Permissible Exposure Limit (PEL), which is 0.1 fiber per cubic centimeter.

6.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection of August 13, 2024. Emerald, Inc., their representative and this report make no representation and/or assumptions as to past conditions or future occurrences. The information, conclusions and recommendations provided herein do not constitute as legal or medical advice. It is further understood that Emerald, Inc. makes no representations or warranties of any kind. Nor are such representations or warranties to be implied with respect to the data furnished. Emerald, Inc. assumes no responsibility with respect to the customers and its employees use thereof.

The information provided herein applies only to the subject property as it existed during Emerald, Inc.'s site visit. If this site's use and/or conditions change, information, observations and recommendations found herein would no longer apply. This report is intended to be used in its entirety. No excerpts may be taken to typify the findings of this survey. Emerald, Inc. shall not be liable for any special, consequential and/or exemplary damages resulting, in whole or in part, from the customer's use of the data provided. It was not within the scope of this investigation to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Our selection of sample locations and frequency is based upon our observations and the assumption that like materials in the same are homogeneous.

Emerald, Inc. conducted the survey to the best of its ability using the standards of the industry. In the event additional materials are found to contain asbestos, Emerald, Inc. shall not be liable for any failure of such findings during its initial survey.

7

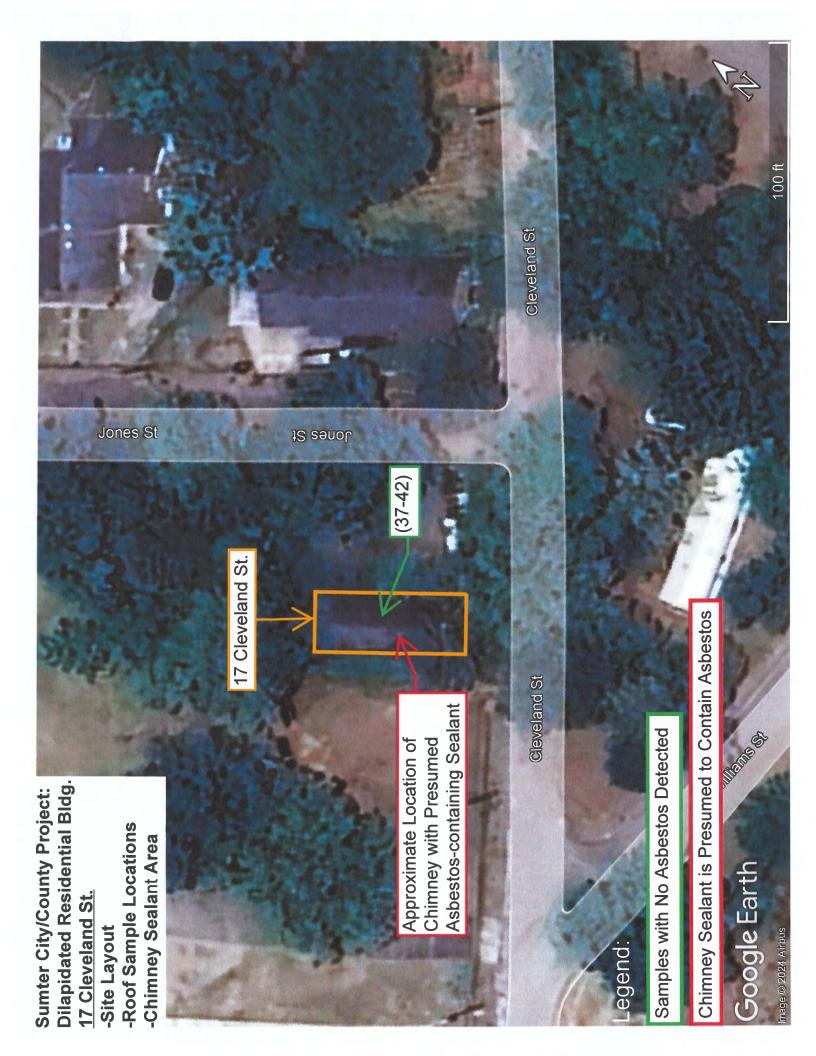
7.0 APPENDICES

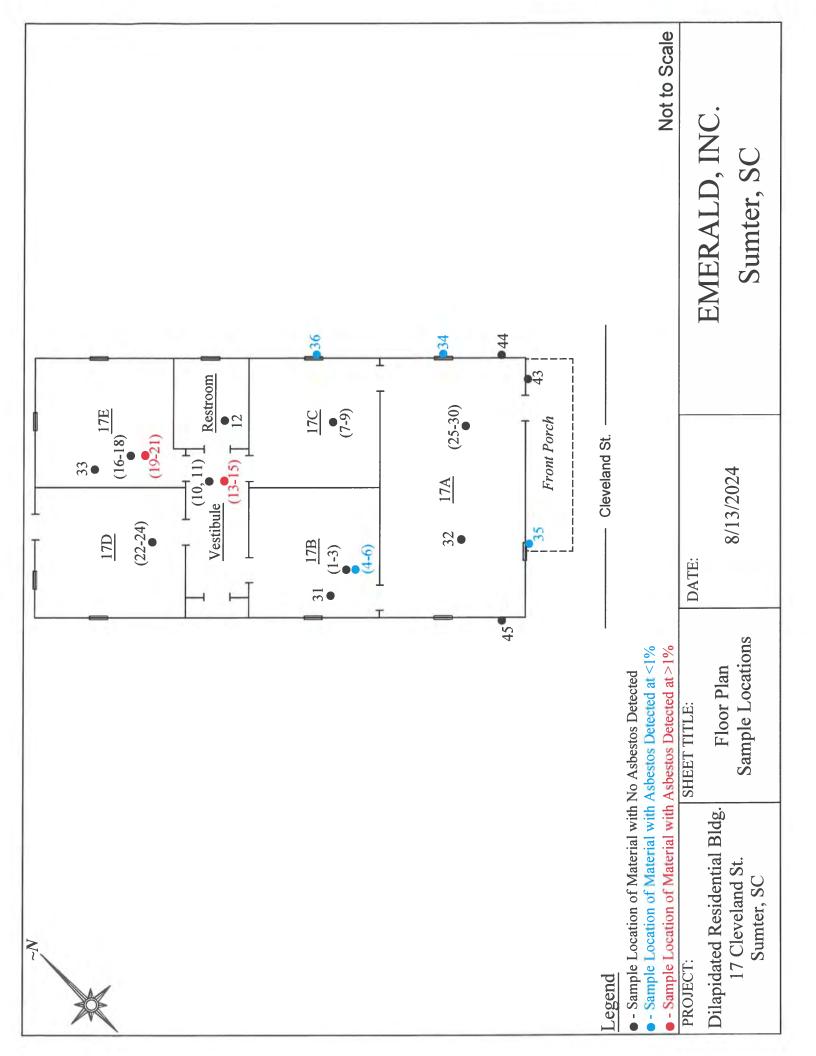
APPENDIX A.	Site Plan
APPENDIX B.	Asbestos Sample Log
APPENDIX C.	Chain of Custody & Analytical Results
APPENDIX D.	Building Inspector Licenses
APPENDIX E.	Site Photographs

APPENDIX A

SITE PLAN

.





APPENDIX B

ASBESTOS SAMPLE LOG

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 17 Cleveland St. ADDRESS: 17 Cleveland St., Sumter, S.C.

DATE: 8/13/2024 INSPECTOR: Dalton Reames

	LOCATION						APPROX.	Ŭ	POTE CONTACT	ENTIAL	FOR FL	POTENTIAL FOR FUTURE DISTURBANCE TACT VIBRATION AIR ER	ISTURE	BANCE AIR EROSION	NOIS
FLOOR	ROOM	EXACT	DESCRIPTION	CONDITION	TYPE	F/NF	SF/LF	н	Σ	-	н	M	н	Σ	-
		Top Laver	Room 17B Top-laver. Tan-square									$\left \right $			
	178	of Flooring	Sheet Flooring	U	Σ	ЦN	80 SF	×			 ×		×		
+											+	+	+	_	+
		Bottom	Room 17B Bottom-laver. Brown-						1	T		_			\downarrow
	17B	Layer of	colored Sheet Flooring	ۍ ا	Σ	μ	80 SF	×			 ×	_	×		
		riooring													
			Room 17C Yellowish Cream-												
	17C	Floor	colored, Geometric-design Sheet	U	Σ	NF	80 SF	×			 ×		×		
			Flooring		:										
	Vestibule		-												
	Vestibule	1 op Layer of Flooring	Vestibule and Restroom Top-layer, Cream-colored Sheet Flooring	U	Σ	NF	85 SF	×			×		×		
	Restroom)													
		Bottom	Vestibule Bottom-layer, Rustic												
	Vestibule	Layer of	Yellow Sheet Flooring	U	Σ	NF	50 SF	×			×		×		
		Flooring	(20% Chrysotile)												
			-												
	17E	Top Layer of Flooring	Room 17E Top-layer, Stylized Cream-colored Sheet Flooring	U	Σ	NF	104 SF	×			×		×		
		Bottom	Room 17E Bottom-layer, Yellow												
	17E	Layer of	Basket Weave-design Sheet Flooring	U	Σ	NF	104 SF	×			×		×		
		Flooring	(25% Chrysotile)												
2	icters indica	ate materia	Red characters indicate materials with asbestos detected at >1%. Asbestos detected at <0.17% in Room 17B bottom-layer sheet flooring.	. Asbestos det	tected at	<0.17% in	Room 17B	8 botto	yel-mo	er shee	it floo	ring.			
<u>Condition</u> G= Good D= Damaged SD= Significantly Damaged			<u>Type</u> S= Surface TSI= Thermal Systems Insulation M= Miscellaneous		<u>E/NF</u> F= Fri NF= n	<u>E/NF</u> F= Friable NF= Non Friable			<u>Potential</u> H= High M= Mode L= Low	<u>Potential for Fi</u> H= High M= Moderate L= Low	uture D	Potential for Future Disturbance H= High M= Moderate L= Low	8		

EMERALD, INC. ASBESTOS SAMPLE LOG

PROJECT NAME: Sumter City/County Project: 17 Cleveland St. ADDRESS: 17 Cleveland St., Sumter, S.C.

DATE: 8/13/2024 INSPECTOR: Dalton Reames

SAMPLE #	and the second second					Con and and and and and and and and and an			1	POTE	POTENTIAL FOR FUTURE DISTURBANCE	OR FUT	TURE D	DISTUR	BANCE	
17376	10000							APPROX.	0	CONTACT		VIBR/	VIBRATION	H	AIR EROSION	NOISC
	FLOOR	ROOM	EXACT	DESCRIPTION	CONDITION	ТҮРЕ	F/NF	SF/LF	н	W	-	L T			M H	-
17-22											⊢	-	\vdash			
17-23	First	17D (Kitchen)	Floor	Room 17D Cream, Square-design Sheet Flooring	IJ	Σ	NF	104 SF	×			×			×	
17-24																
17-25			-												-	
17-26	First	17A	1 op Layer of Flooring	Backing of Blue/Gray Carpet	IJ	Σ	R	187 SF	×			×			×	
17-27																
17-28			Bottom													
17-29	First	17A	Layer of	Backing of Royal Blue Carpet	U	Σ	NF	187 SF	×			×			×	
17-30			Flooring													
17-31	1	178		-												
17-32	First	17A	Ceiling	Sheetrock with Joint Compound System	SD	S	ш	650 SF	×			×			×	
17-33		17E														
17-34								480 LF on								
17-35 E	Exterior	Window Units	v Units	Exterior Window Glaze	U	Σ	NF	10 Window	×			 ×			×	
17-36								Units								
17-37																
17-38		Roof		Gray and Black Roofing Shingls	U	Σ	NF	1,080 SF	×			 ×			 ×	_
17-39													_			
17-40													_			
17-41		Roof		Roofing Felt Paper	U	Σ	NF	1,080 SF	×			 ×	-		 ×	
17-42											_					
Note: A	sbestos d	letected at	<0.32% in e	Asbestos detected at <0.32% in exterior window glaze, via TEM analysis.	nalysis.	- Andrewson and a stress										
<u>Condition</u> G= Good D= Damaged				<u>Type</u> S= Surface TSI= Thermal Systems Insulation		<u>E/NF</u> F= Fri NF= N	<u>E/NF</u> F= Friable NF= Non Friable	a		<u>Potentia</u> H= High M= Mod	Potential for Future <u>Disturbance</u> H= High M= Moderate	iture Dis	<u>sturban</u>	JCE		
SD= Significantly Damaged	/ Damaged			M= Miscellaneous		-		J		L= Low						

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 17 Cleveland St. ADDRESS: 17 Cleveland St., Sumter, S.C.

DATE: <u>8/13/2024</u> INSPECTOR: <u>Dalton Reames</u>

	NOI	٦														
NCE	AIR EROSION	Σ														
TURBAI	AIF	н		×			×									
RE DIST	NO	-													los.	rbance
FUTUI	VIBRATION	Σ													asbes	e Distu
AL FOR	>	Ξ		×			×								ntain	<u>or Futur</u> ate
POTENTIAL FOR FUTURE DISTURBANCE	CT	-													d to co	Potential for Future Disturbance H= High M= Moderate
PC	CONTACT	Σ													sume	
		н		×			×								is pre	
	APPROX.	SF/LF		1,320 SF			12LF								e material	
		F/NF		ш			R								efore, the	<u>E/NF</u> F= Friable NF= Non Friable
		TYPE		Σ			Σ								ions; ther	<u>E/NE</u> F= Fri NF= N
		CONDITION		IJ			U								s roof condit	
		DESCRIPTION		Fiberboard Exterior Wall Panels		Chimney Roof Sealant Material is	Presumed Asbestos-containing Material (DACM)								Rooftop chimney sealant could not be sampled, due to hazardous roof conditions; therefore, the material is presumed to contain asbestos.	<u>Type</u> S= Surface TSI= Thermal Systems Insulation
		EXACT		IIIs			netration								lant could	
LOCATION		ROOM		Walls			Rooftop Chimney Penetration								imney sea	
		FLOOR		Exterior			Rooftop C								Rooftop ch	
		SAMPLE #	17-43	17-44	17-45	Observed	but Not Samnled								Note:	ed

APPENDIX C

CHAIN OF CUSTODY & ANALYTICAL RESULTS



Attention: Ronny Lowder

Emerald, Inc.

PO Box 3050

2520 Tahoe Drive

Sumter, SC 29151

EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404650 Customer ID: EMER51 Customer PO: Project ID: Sumter County

 Phone:
 (803) 469-5454

 Fax:
 (803) 775-1970

 Received Date:
 08/14/2024 9:20 AM

 Analysis Date:
 08/19/2024 - 08/20/2024

 Collected Date:

Project: Sumter County Project : 17 Cleveland St. (Sumter County)

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
17-3 022404650-0033	Room 17B Top-layer Sheet Flooring	Gray/Tan/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
17-6 022404650-0034	Room 17B Bottom-layer Sheet Flooring	Brown/Black Fibrous Homogeneous	100.0 Other	None	<0.17% Chrysotile
17-9-Flooring 022404650-0035	Room 17C Sheet Flooring	Brown/Yellow/Orange Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
17-9-Mastic 022404650-0036	Room 17C Sheet Flooring	Yellow/Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
17-12 022404650-0037	Vestibule/Restoom Sheet Flooring	Gray/Blue/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
17-18 022404650-0038	Room 17E Top-layer Sheet Flooring	Gray/Blue/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
17-24-Flooring 022404650-0039	Room 17D Sheet Flooring	Gray/Tan/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
17-24-Mastic 022404650-0040	Room 17D Sheet Flooring	Yellow/Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
17-27 022404650-0041	Blue/Gray Carpet - Backing	Gray/White/Blue Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
17-30 022404650-0042	Royat Blue Carpet - Backing	Gray/Blue/Orange Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
17-36 022404650-0043	Window Glaze	Gray/White/Beige Non-Fibrous Heterogeneous	99.15 Other	0.53 Fibrous_Other	0.32% Chrysotile
17-39-Gray Shingle 1 022404650-0044	Roof Shingle Layers	Ta Gray/Black Fibrous Heterogeneous	alc fibers present. 100.0 Other	None	No Asbestos Detected

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/23/2024 16:56:38

ASB_PLMEPANOB 0012 0002 Printed 8/23/2024 4:58:03PM



Attention: Ronny Lowder

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706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175

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EMSL Order: 022404650 Customer ID: EMER51 Customer PO: Project ID: Sumter County

 Phone:
 (803) 469-5454

 Fax:
 (803) 775-1970

 Received Date:
 08/14/2024 9:20 AM

 Analysis Date:
 08/19/2024 - 08/20/2024

 Collected Date:

Project: Sumter County Project : 17 Cleveland St. (Sumter County)

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
17-39-Gray Shingle 2 022404650-0045	Roof Shingle Layers	Gray/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
17-39-Black Shingle 022404650-0046	Roof Shingle Layers	Brown/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
17-42 022404650-0047	Roofing Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Stephen Bennett (15)

Stephen Bennett, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/23/2024 16:56:38

ASB_PLMEPANOB_0012_0002 Printed 8/23/2024 4:58:03PM

EMSL	EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:	Ronny Lowder	Phone:	(803) 469-5454
	Emerald, Inc.	Fax:	(803) 775-1970
	2520 Tahoe Drive	Received Date:	08/14/2024 9:20 AM
	PO Box 3050	Analysis Date:	08/16/2024
. 영화 문화	Sumter, SC 29151	Collected Date:	
Project:	Sumter County Project : 17 Cleveland St. (Sumter County)		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
17-1	Room 17B Top-layer Sheet Flooring	Tan Fibrous Homogeneous	30% Cellulose 2% Glass	68% Non-fibrous (Other)	None Detected
17-2	Room 17B Top-layer Sheet Flooring	Gray/Tan/Beige Fibrous	30% Cellulose 1% Glass	69% Non-fibrous (Other)	None Detected
022404650-0002	ÿ	Heterogeneous			
17-4	Room 17B Bottom-layer Sheet	Black Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected
22404650-0003	Flooring	Homogeneous	750/ 0 - 11 - 1		None Detected
17-5	Room 17B Bottom-layer Sheet Flooring	Brown/Black Fibrous Homogeneous	75% Cellulose 1% Synthetic <1% Glass	24% Non-fibrous (Other)	None Delected
	Room 17C Sheet	Brown/Yellow/Oran	40% Cellulose	60% Non-fibrous (Other)	None Detected
17-7-Flooring	Flooring	ge Fibrous Heterogeneous	40% Cellulose		
7-7-Mastic	Room 17C Sheet Flooring	Tan/Yellow Non-Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected
22404650-0005A		Homogeneous			
7-8-Flooring	Room 17C Sheet Flooring	Brown/Yellow/Oran ge	45% Cellulose	55% Non-fibrous (Other)	None Detected
22404650-0006		Fibrous Heterogeneous			
17-8-Mastic	Room 17C Sheet Flooring	Yellow/Beige Non-Fibrous	3% Cellulose	97% Non-fibrous (Other)	None Detected
022404650-0006A		Homogeneous			
7-10 222404650-0007	Vestibule/Restoom Sheet Flooring	White/Blue/Beige Fibrous Homogeneous	25% Cellulose <1% Glass	75% Non-fibrous (Other)	None Detected
7-11	Vestibule/Restoom	Gray/White/Beige Fibrous	30% Cellulose 1% Glass	69% Non-fibrous (Other)	None Detected
22404650-0008	Sheet Flooring	Heterogeneous	170 Glass		
17-13	Vestibule Bottom-layer Sheet	Brown/Tan Fibrous		80% Non-fibrous (Other)	20% Chrysotile
22404650-0009	Flooring	Homogeneous			
Inseparable mastic laye	r included in analysis			States and the second second	
7-14	Vestibule Bottom-layer Sheet				Positive Stop (Not Analyzed)
22404650-0010	Flooring	the second	and the state of the	1	
7-16	Room 17E Top-layer Sheet Flooring	Tan/Blue/Beige Fibrous	25% Cellulose 2% Glass	73% Non-fibrous (Other)	None Detected
22404650-0011		Homogeneous			
17-17	Room 17E Top-layer Sheet Flooring	Gray/Blue/Beige Fibrous	30% Cellulose 1% Glass	69% Non-fibrous (Other)	None Detected
022404650-0012		Heterogeneous			
17-19	Room 17E Bottom-layer Sheet	Gray/Yellow Fibrous	5% Cellulose	70% Non-fibrous (Other)	25% Chrysotile
022404650-0013	Flooring	Homogeneous			

Initial report from: 08/16/2024 16:33:42



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404650 Customer ID: EMER51

Customer PO:

Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Decorintian	Annoara	Non-Asbesto		Asbestos % Turco
Sample 17-20	Description Room 17E	Appearance	% Fibrous	% Non-Fibrous	% Type Positive Stop (Not Analyzed)
022404650-0014	Bottom-layer Sheet Flooring				Positive Stop (Not Analyzed
17-22	Room 17D Sheet Flooring	Gray/White Fibrous	25% Cellulose 2% Glass	73% Non-fibrous (Other)	None Detected
022404650-0015	D	Homogeneous	000/ 0 8 1		No Data da d
17-23-Flooring	Room 17D Sheet Flooring	Gray/Tan/Beige Fibrous Heterogeneous	30% Cellulose 1% Glass	69% Non-fibrous (Other)	None Detected
7-23-Mastic	Room 17D Sheet	Yellow	1% Cellulose	99% Non-fibrous (Other)	None Detected
22404650-0016A	Flooring	Non-Fibrous Homogeneous	<1% Synthetic		
7-25	Blue/Gray Carpet - Backing	Gray/Blue/Yellow Fibrous	70% Synthetic	30% Non-fibrous (Other)	None Detected
22404650-0017	Dacking	Homogeneous			
17-26	Blue/Gray Carpet - Backing	Gray/White/Yellow Fibrous	<1% Cellulose 80% Synthetic	20% Non-fibrous (Other)	None Detected
022404650-0018		Heterogeneous			
17-28	Royal Blue Carpet - Backing	Tan/Blue Fibrous	90% Synthetic	10% Non-fibrous (Other)	None Detected
22404650-0019		Heterogeneous			and the second
17-29	Royal Blue Carpet - Backing	Tan/Blue/Orange Fibrous	<1% Cellulose 90% Synthetic	10% Non-fibrous (Other)	None Detected
22404650-0020		Heterogeneous			
7-31-Joint Compound	Sheetrock System	White Non-Fibrous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
22404650-0021	Obsisteration Occustore	Homogeneous	1000/ 0-11-1		No Particular
17-31-Tape	Sheetrock System	Beige Fibrous Homogeneous	100% Cellulose		None Detected
7-31-Sheetrock	Sheetrock System	Brown/Gray	10% Cellulose	90% Non-fibrous (Other)	None Detected
22404650-0021B		Fibrous Homogeneous			
7-32-Joint Compound	Sheetrock System	White Non-Fibrous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
22404650-0022		Homogeneous			
7-32-Sheetrock	Sheetrock System	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
22404650-0022A		Homogeneous			
7-33-Joint Compound	Sheetrock System	White Non-Fibrous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
7-33-Sheetrock	Sheetrock System	Homogeneous Brown/Gray	20% Cellulose	80% Non-fibrous (Other)	None Detected
22404650-0023A		Fibrous Heterogeneous			
7-34	Window Glaze	Gray Non-Fibrous	2% Fibrous (Other)	10% Ca Carbonate	<1% Chrysotile
22404650-0024		Homogeneous		88% Non-fibrous (Other)	
7-35	Window Glaze	Gray/White/Beige Non-Fibrous	<1% Cellulose <1% Fibrous (Other)	10% Ca Carbonate 90% Non-fibrous (Other)	<1% Chrysotile
22404650-0025		Heterogeneous		, ,	
7-37-Gray Shingle 1	Roof Shingle Layers	Gray/Black Fibrous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
22404650-0026		Heterogeneous			
7-37-Gray Shingle 2	Roof Shingle Layers	Gray/Black Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
022404650-0026A		Heterogeneous			Second State (Real Second

Initial report from: 08/16/2024 16:33:42

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EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404650 Customer ID: EMER51 Customer PO:

Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
17-37-Black Shingle	Roof Shingle Layers	Black Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
17-38-Gray Shingle 1 022404650-0027	Roof Shingle Layers	Gray/Black Fibrous Heterogeneous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
17-38-Gray Shingle 2 022404650-0027A	Roof Shingle Layers	Gray/Black Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
17-38-Black Shingle 022404650-0027B	Roof Shingle Layers	Brown/Black Fibrous Heterogeneous	15% Cellulose <1% Synthetic	85% Non-fibrous (Other)	None Detected
17-40 022404650-0028	Roofing Felt	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
17-41 022404650-0029	Roofing Felt	Black Fibrous Homogeneous	80% Cellulose <1% Glass	20% Non-fibrous (Other)	None Detected
17-43 022404650-0030	Fiberboard Wall Planks	Brown/White Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
17-44 022404650-0031	Fiberboard Wall Planks	Brown/White Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
17-45 022404650-0032	Fiberboard Wall Planks	Brown/White Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected

Analyst(s)

Jurnee West (23) Scott Combs (18)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 08/16/2024 16:33:42

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PHONE. FAX

pet.

Company Name : Emerald, Inc.			EMSL Customer ID:					
Street: P.O. Box 3050			City: Sumter State/Province: SC			ice: SC		
Zip/Postal Code: 29151 Country: US		Telephone #: 803-469-5454 Fax #: 803-469-5465			469-5465			
Report To (Name): Ronny Lowder				Please Provide Results: 🔲 Fax 🗹 Email				
Email Address: rlowder	Purchase Order:							
Project Name/Number: S			ct ID (Interna			A ALENT A		
U.S. State Samples Take		ill to: 🔽 Same 🔲 Different -						dential/Tax Exempt
	LINOL-D	Third Party Billing requires write					ents	
		Turnaround Time (TAT)	Optio					0.04
	Hour [ad to schedule *There is a premiun	n charge	72 Ho for 3 Ho		96 Hour A or EPA Le	vel II TAT You	will be asked to sign an
authorization form	for this service.		with EM	SL's Terr	ns and Conditio	ons located	in the Analytical	Pnce Guide
From NY	inhies are	TEM - Air 4-4.5hr TAT (AHERA only)		TEM-Dust				
NIOSH 7400		AHERA 40 CFR, Part 76	3		Microva	ac - ASTN	I D 5755	
w/ OSHA 8hr. TWA		NIOSH 7402			Wipe - /	ASTM D6	480	
PLM - Bulk (reporting lim		EPA Level II			Carpet	Sonicatio	n (EPA 600/J-	93/167)
PLM EPA 600/R-93/11	6 (<1%)	ISO 10312			Soil/Rock			
PLM EPA NOB (<1%)		TEM - Bulk						nilling prep (<1%)
Point Count	(<0.1%)	NYS NOB 198,4 (non-fna	hle NV	~	PLM EPA 600/R-93/116 with milling prep (<0.25%)			
Point Count w/Gravimetric	• •	Chatfield SOP	DIG-IN I)	TEM EPA 600/R-93/116 with milling prep (<0.1%)			
400 (<0.25%) 1000		TEM Mass Analysis-EPA	600 se	ec. 2.5	TEM Qualitative via Drop Mount Prep Cincinnati Method EPA 600/R-04/004 – PLM/TEM			
NYS 198.1 (friable in N	IY)	TEM - Water: EPA 100.2						
NYS 198.6 NOB (non-					(BC only) Other:			
NYS 198.8 SOF-V	· · · ·	All Fiber Sizes Waste Drinking						
NIOSH 9002 (<1%)				iking				
Check For Positive St	op - Clearly	Identify Homogenous Group		Filter	Pore Size (A	Air Samp	les): 0.8	um 0.45µm
Samplers Name: Dalt	on Rea	mes	S	molere	Signature:	D	Ma	Part I
			100	mpiers	olgitature.		e/Area (Air)	(Date/Time
Sample #		Sample Descripti	on				# (Bulk)	Sampled
	Descripti	ions on Following Page	•					8/13/2024
			-					
L								
Client Sample # (s): 17	-1 thru 17	-45			/	Total # c	of Samples: 4	5
Relinquished (Client):	Dette	Date	8	131.) LDE		Time	: 1700
AND							Gian	
Comments/Special Instru Note: Sumter County Project	actions:	Let Date	0	1-1_(<u> </u>	
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		Page 1 Of	2					\bigcirc

4650



CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284

Client Sample # (s)	17-1 thru 17-45	Total Samples #	45	Phone: (336) 992-1025
Relinquished:	Date:	Time:		Fax: (336) 992-4175
Received:	Date:	Time:		http://www.emsl.com
Relinquished:	Date:	Time:		
Received:	Date:	Time:		

SAMPLE NUMBER	SAMPLE DESCRIPTION	VOLUME (if applicable)
17-1	Room 17B Top-layer Sheet Flooring	
17-2	17	
ALL	н	
17-4	Room 17B Bottom-layer Sheet Flooring	
17-5	II	
A PALA	17	
17-7	Room 17C Sheet Flooring	
17-8	R	
76-	N	
17-10	Vestibule/Restroom Sheet Flooring	
17-11	N	
1786530	11	
17-13	Vestibule Bottom-layer Sheet Flooring	
17-14	"	
1.2339	u	
17-16	Room 17E Top-layer Sheet Flooring	
17-17	H H H	
7.12	N .	
17-19	Room 17E Bottom-layer Sheet Flooring	
17-20	"	
	17	
17-22	Room 17D Sheet Flooring	
17-23		
	R	
17-25	PluelCrew Cornet - Peeking	
17-26	Blue/Gray Carpet - Backing	
	М	
17-28	Pavel Plue Cornet Beaking	
17.20	Royal Blue Carpet - Backing	
17-29		
17-31	Sheetrook Sustan	
17-32	Sheetrock System	
17-33	" & Sample A	HICRYED
17-34	Window Glaze	
17-35	0	
17 07	Deef Chingle Louise	
17-37 17-38	Roof Shingle Layers	1444 1
17-38	">> Sanide	All 4 Layors
17-40		
17-40	Roofing Felt	
i / -4+ i		
17.42		
17-43	Fiberboard Wall Planks	
17-44	0	
17-45	2042	

APPENDIX D

BUILDING INSPECTOR LICENSES

SCDHEC ISSUED Asbestos ID Card

RONNY LOWDER



Expiration Date: ASB-32201 09/18/24 CONSULTMP CONSULTBI BI-01497 SUPERAHERA SA-00715

.

09/18/24 09/17/24

1



John Dalton Reames, Jr.



AIRSAMPLER CONSULTBI CONSULTPD SUPERAHERA

		Expiration Date:
PLER	AS-00287	11/07/24
BI	BI-00945	11/06/24
TPD	PD-00200	08/07/25
IERA	SA-01252	11/07/24

APPENDIX E

SITE PHOTOGRAPHS



Photo #4 Asbestos Detected at <1% in Window Glaze



Photo #3 View Depicting Fiberboard Planks over Wood-slat Exterior Siding





50

Photo #2 Chimney Sealant Material is Presumed to Contain Asbestos

Very Depicting Heavy Vegetation Surrounding the Residential Building Photo #1



Photo #8 Asbestos Detected at 25% in Bottom-layer Sheet Flooring in Room 17E



Photo #7 Asbestos Detected at 20% in Bottom-layer Sheet Flooring in the Vestibule



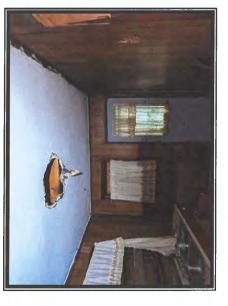


Photo #6 No Asbestos Detected in Sheetrock with Joint Compound Ceiling System

Photo #5 View Depicting Wood Panel and Wood Slat Interior Walls



2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE: www.emeraldinc-us.com TELEPHONE (803) 469-5454 FAX (803) 469-5465

ASBESTOS SURVEY REGARDING SUMTER CITY/COUNTY PROJECT DILAPIDATED RESIDENTIAL BUILDING 17 WEST PATRICIA DRIVE SUMTER, SOUTH CAROLINA



Prepared for:

City of Sumter P.O. Box 1449 Sumter, South Carolina 29151

Prepared by:

Emerald, Inc. P.O. Box 3050 Sumter, South Carolina 29151

Date of Inspection: August 19, 2024 Date of Report: August 29, 2024

FOREWORD

This report was prepared by Emerald, Inc. of Sumter, South Carolina, for the City of Sumter, regarding the dilapidated residential building located at 17 W. Patricia Dr. in Sumter, S.C. The contents of this report are confidential and intended for the use of the client only.

J. Dalton Reames, Jr., S.C. Licensed Building Inspector, conducted the inspection, and Ronny L. Lowder, S.C. Licensed Building Inspector and Management Planner, prepared this report. Any questions or comments concerning this report should be directed to Ronny L. Lowder at either (803) 469-5454 or via email at rlowder@emeraldincus.com.

J. Dalton Reames, Jr.

SC Licensed Building Inspector License Number BI-00945 Expiration Date: 11/06/24

SC Licensed AHERA Supervisor License Number SA-01252 Expiration Date: 11/07/24

SC Licensed Air Sampler License Number AS-00287 Expiration Date: 11/07/24

SC Licensed Project Designer License Number PD-00200 Expiration Date: 08/07/25

owder, CHMM

SC Licensed Building Inspector License Number BI-01497 Expiration Date: 09/18/24

SC Licensed AHERA Supervisor License Number SA-00715 Expiration Date: 09/17/24

SC Licensed Mgmt Planner License Number ASB-32201 Expiration Date: 09/18/24

TABLE OF CONTENTS

1.0	INTRODUCTION AND OBJECTIVE	1
2.0	SURVEY METHODOLOGY	1
3.0	HAZARD ASSESSMENT FACTORS (ASBESTOS)	3
3.1	Homogeneous Areas	3
3.2	Hazard Factors	3
4.0	ANALYSIS AND RESULTS	4
4.1	Laboratory Analysis	4
4.2	Survey Results	4
5.0	CONCLUSIONS AND RECOMMENDATIONS	5
6.0	ASSUMPTIONS AND LIMITATIONS	6
7.0	APPENDICES	7

1.0 INTRODUCTION AND OBJECTIVE

Emerald, Inc. was requested to conduct an Asbestos Survey of the vacant residential structure located at 17 W. Patricia Dr. in Sumter, S.C., to identify the presence of any asbestos-containing materials (ACM), prior to demolition activities. The inspection was authorized by Mr. John Macloskie, Codes Director, with the City of Sumter. The inspection included identification and assessment of the condition of suspect asbestos-containing materials, either friable or non-friable, on the interior and exterior portions of the structure.

This report is a compilation of the inspection and its results.

2.0 SURVEY METHODOLOGY

On August 19, 2024, Emerald, Inc. conducted an Asbestos Survey on the building at the stated address. J. Dalton Reames, Jr., South Carolina Licensed Building Inspector, conducted the inspection.

Estimated to have been constructed circa 1946 for residential purposes, the singlestory residential structure contains approximately 600 square feet of interior space. The structure is in significantly dilapidated condition, with collapsed sections of roof, ceiling and wall components. Areas of the structure could not be accessed, due to hazardous building conditions. The basic building construction is as follows:

- Wood-framed Walls Built over an Earthen Crawl Space
 - Wood Slats, Foil Sheathing and Fiberboard Slats Cover Exterior Walls
- Wooden Hipped Roof Structure in Dilapidated Condition
 - Covered with Shingles and Associated Felt
- Wood Slat Floors Include Coverings of Resilient Flooring Squares
- Wood-framed Interior Walls Covered with Sheetrock (No Joint Compound)

- Wooden Ceiling Joists Covered with Plywood Sheets
 - Spray-applied Texture Cover the Plywood Ceiling Panels
- No HVAC Equipment
 - Furnace-supplied Heating is Likely Floor Return Observed

Future use of the property, following demolition activities, is unknown.

The survey included a visual inspection to identify the presence of material suspected of containing asbestos. This identification was based on the experience and training of the inspector. A total of twenty-two (22) samples were collected during the survey for laboratory analysis, based upon the required EPA and SC DHEC sampling matrix. Samples were placed in individual containers, labeled and numbered according to the sampling schemes (17W-1 through 17W-22). Per SC DHEC Asbestos Regulations, the independent laboratory is required to sample all layers of each sample. As a result, twenty (20) samples were analyzed by the lab, via Polarized Light Microscopy (PLM) while utilizing Positive Stop, and five (5) samples were analyzed, via Transmission Electron Microscopy (TEM). Appendix B contains the Asbestos Survey Log kept during the inspection which identifies the samples collected by sample number, sample type, location and condition assessment, along with any comments. The samples were shipped to EMSL Analytical, Inc. in Kernersville, North Carolina for analysis. Analysis and results are discussed in Section 4.0.

3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)

3.1 Homogeneous Areas

The sample collection was typically conducted by homogeneous materials, i.e., any materials of the same type regarding uniformity throughout in structure or make-up and appearance (color, texture, and/or date of construction/application). Homogeneous materials can be further classified as surfacing materials, thermal system insulation and miscellaneous materials. Miscellaneous materials include ceiling tiles, floor tiles, roofing, caulking, and glazing, etc.

3.2 Hazard Factors

The samples of suspect material collected were classified as either friable (F) or non-friable (NF). Friable means the material can be crumbled, pulverized, or reduced to powder by ordinary hand pressure. Materials initially determined to be non-friable can receive a reclassification of friable if the material is damaged, thereby providing an avenue for release of asbestos fibers. Friable asbestos-containing material (ACM) has been determined by EPA and OSHA to be a greater hazard (health risk) than non-friable ACM. In assessing the fiber release potential, the current condition of the suspect materials sampled was noted in the Asbestos Survey Log (Appendix B). The condition was denoted as good, damaged, or significantly damaged. Current condition is a factor used to assess the potential for fiber release. Other factors used to determine potential fiber release include air movement, surface type, and area activity as related to human occupancy.

3

4.0 ANALYSIS AND RESULTS

4.1 Laboratory Analysis

Bulk samples were analyzed by EMSL Analytical, Inc. using Polarized Light Microscopy (PLM) with Dispersion Staining Techniques (EPA Bulk Analysis Method 600/R-93/116). This method utilizes part of the bulk sample which is mounted on a slide and exposed to an oil of specific refractive index. This prepared slide is then subjected to a variety of optical tests.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of asbestos content are then determined through visual estimating. Although this is an estimate, any material containing greater than one percent of any type of asbestos is classified as ACM by the EPA. Any material classified as ACM must be handled accordingly.

Under the revised South Carolina Asbestos Regulation 61-86.1 effective June 27, 2008, any analysis of non-friable organically bound (NOB) material that is found to be negative via PLM testing, must have confirmation testing via Transmission Electron Microscopy (TEM) on one sample from each media; therefore, five (5) samples were analyzed by the lab, via TEM testing.

4.2 Survey Results

Samples were collected and tested from various suspect materials, as referenced in Appendix B, Asbestos Sample Log. Samples of flooring squares, roof shingles and roofing felt were verified as negative, via TEM analysis.

Asbestos was detected at <0.1% in window glaze material, via TEM analysis.

Appendix C contains a copy of the analytical results from the laboratory. of the analytical results from the laboratory.

4

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the inspection of August 19, 2024, and the analytical results from the samples collected and tested by an independent laboratory, the dilapidated residential building located at 17 W. Patricia Dr. in Sumter, S.C., does not contain friable or non-friable ACM, as of the date of the survey, August 19, 2024.

Regarding window glazing with asbestos detected at <0.1%, via TEM analysis, SC DHEC, now known as the South Carolina Department of Environmental Services (SC DES), and the Environmental Protection Agency (EPA) do not consider such materials as ACM; however, the Occupational Safety and Health Administration (OSHA) regulations require employers to provide a workplace having asbestos exposures below the Permissible Exposure Limit (PEL), which is 0.1 fiber per cubic centimeter.

6.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection of August 19, 2024. Emerald, Inc., their representative and this report make no representation and/or assumptions as to past conditions or future occurrences. The information, conclusions and recommendations provided herein do not constitute as legal or medical advice. It is further understood that Emerald, Inc. makes no representations or warranties of any kind. Nor are such representations or warranties to be implied with respect to the data furnished. Emerald, Inc. assumes no responsibility with respect to the customers and its employees use thereof.

The information provided herein applies only to the subject property as it existed during Emerald, Inc.'s site visit. If this site's use and/or conditions change, information, observations and recommendations found herein would no longer apply. This report is intended to be used in its entirety. No excerpts may be taken to typify the findings of this survey. Emerald, Inc. shall not be liable for any special, consequential and/or exemplary damages resulting, in whole or in part, from the customer's use of the data provided. It was not within the scope of this investigation to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Our selection of sample locations and frequency is based upon our observations and the assumption that like materials in the same are homogeneous.

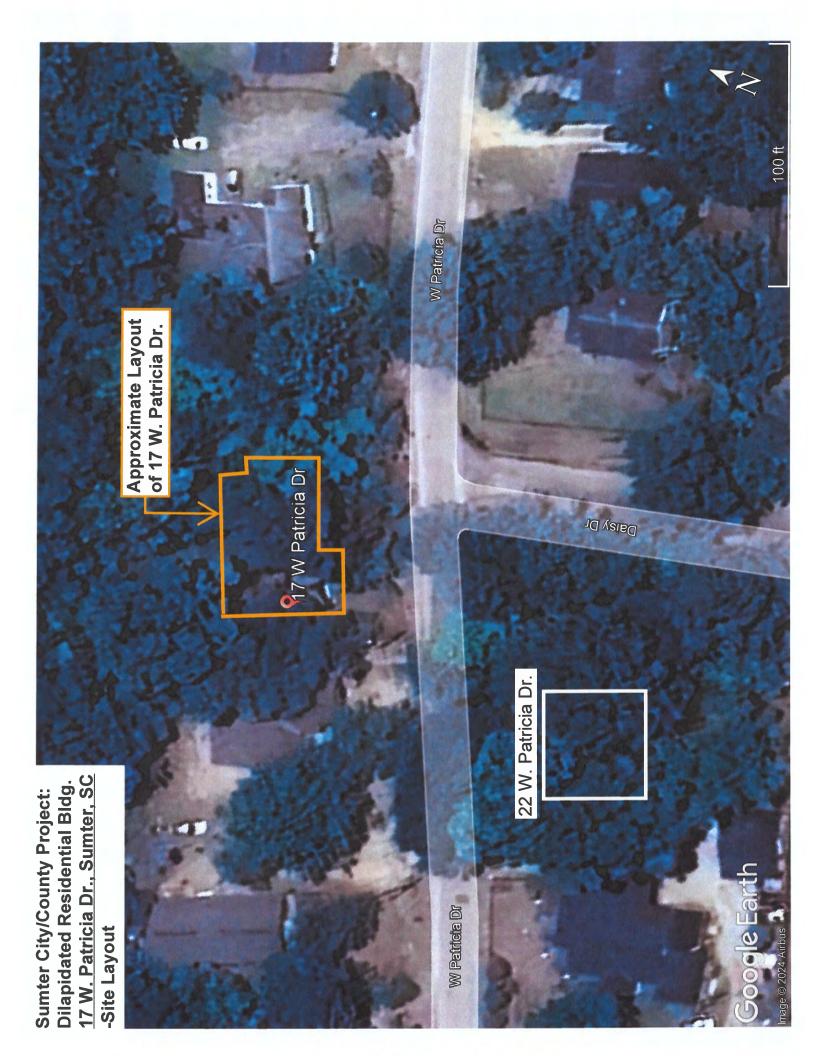
Emerald, Inc. conducted the survey to the best of its ability using the standards of the industry. In the event additional materials are found to contain asbestos, Emerald, Inc. shall not be liable for any failure of such findings during its initial survey.

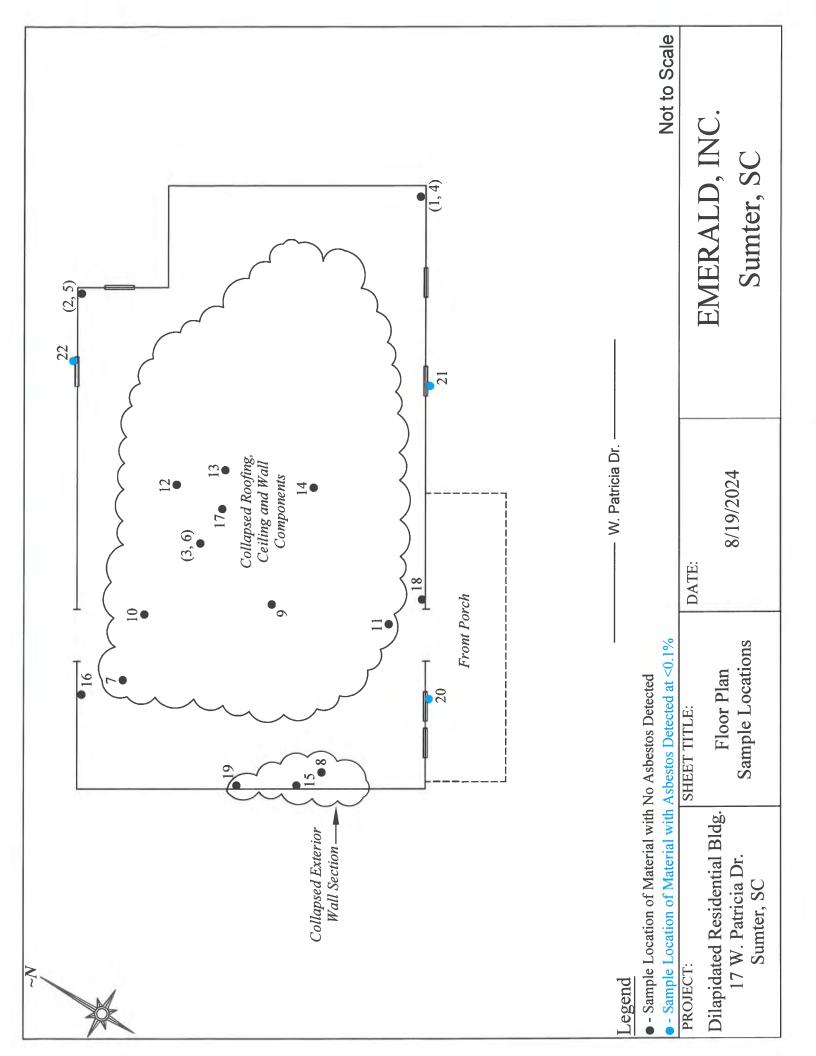
6

7.0 APPENDICES

APPENDIX A.	Site Plan
APPENDIX B.	Asbestos Sample Log
APPENDIX C.	Chain of Custody & Analytical Results
APPENDIX D.	Building Inspector Licenses
APPENDIX E.	Site Photographs

APPENDIX A SITE PLAN





APPENDIX B

ASBESTOS SAMPLE LOG

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 17 W. Patricia Dr. ADDRESS: 17 W. Patricia Dr., Sumter, S.C.

DATE: <u>8/19/2024</u> INSPECTOR: <u>Dalton Reames</u>

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		TYPE		Σ			Σ			Σ				s					s				-	<u>E/NF</u> F= Friable
																_								
		CONDITION	-	۵			۵			U				SD					SD					
		DESCRIPTION		Brownish Gray Roof Shingles			Roofing Felt			Mottled Green Flooring Squares				Spray-applied Ceiling Texture				-	Sheetrock Wall Panels (No Joint Compound Observed)					<u>Type</u> S= Surface
		EXACT								West Area of the Collapsed Interior		Interior	Interior	ntral Int.	ntral Int.	ntral Int.	_	II	lle	Н	_			
LOCATION	Section 2	ROOM		Roof			Roof			the Collaps		Wood Ceiling - North Interior	Wood Ceiling - South Interior	Collapsed Ceiling - Central Int.	Collapsed Ceiling - Central Int.	Collapsed Ceiling - Central Int.	West Area Wall	North Area Wall	Central Area Wall	South Area Wall	West Area Wall			
L										Area of		od Ceili	od Ceili	apsed C	apsed C	apsed C	We	Nort	Centi	Sout	We	 -		
		FLOOR								West /		Ŵ	Wo	Coll	Coll	Coll								
		SAMPLE #	17W-1	17W-2	17W-3	17W-4	17W-5	17W-6	17W-7	17W-8	17W-9	17W-10	17W-11	17W-12	17W-13	17W-14	17W-15	17W-16	17W-17	17W-18	17W-19			<u>Condition</u> G= Good

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 17 W. Patricia Dr. ADDRESS: 17 W. Patricia Dr., Sumter, S.C.

DATE: <u>8/19/2024</u> INSPECTOR: <u>Dalton Reames</u>

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L FOR I	VIE	н		×												Future e
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	S	н		×												
	APPROX.	SF/LF		144 LF												
		F/NF		ΝF												<u>E/NF</u> F= Friable NF= Non Friable
		TYPE		Σ											nalysis.	<u>E/NF</u> F= Fri NF= N
		CONDITION		U											%, via TEM A	
		DESCRIPTION		Exterior Window Glaze											Blue characters indicate material with asbestos detected at <0.1%, via TEM Analysis.	<u>Type</u> S= Surface TSI= Thermal Systems Insulation M= Miscellaneous
		EXACT		/ Units											ite materia	
LOCATION		ROOM		Window Units											cters indice	
		FLOOR		Exterior											Blue chara	iy Damaged
		SAMPLE #	17W-20	17W-21	17W-22										Note:	<u>Condition</u> G= Good D= Damaged SD= Significantly Damaged

APPENDIX C

CHAIN OF CUSTODY & ANALYTICAL RESULTS



Attention: Ronny Lowder

Emerald, Inc. 2520 Tahoe Drive

PO Box 3050 Sumter, SC 29151

EMSL Analytical, Inc.

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

Project: Sumter County Project : 17 W. Patricia Dr. (Sumter County)

EMSL Order: 022404795 Customer ID: EMER51 Customer PO: Project ID: Sumter County

Phone:	(803) 469-5454
Fax:	(803) 775-1970
Received Date:	08/21/2024 9:00 AM
Analysis Date:	08/28/2024
Collected Date:	

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
17W-3 022404795-0019	Roof Shingles	Brown/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
17W-6 022404795-0020	Roof Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
17W-9-Flooring 022404795-0021	Flooring Square	Gray/Black/Green Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
17W-9-Mastic 022404795-0022	Flooring Square	Brown/Tan/Gold Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
17W-22 022404795-0023	Window Glaze	Brown/Gray/White Non-Fibrous Heterogeneous	100.0 Other	None	<0.1% Chrysotile

Analyst(s)

Stephen Bennett (5)

Stephen Bennett, Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/29/2024 08:06:30

ASB_PLMEPANOB_0012_0002 Printed 8/29/2024 8:07:57AM

Attention: Ronny Lowder

Emerald, Inc.

PO Box 3050

2520 Tahoe Drive

Sumter, SC 29151

EMSL Analytical, Inc.

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

Project: Sumter County Project : 17 W. Patricia Dr. (Sumter County)

EMSL Order:	022404795
Customer ID:	EMER51
Customer PO:	
Project ID:	Sumter County

 Phone:
 (803) 469-5454

 Fax:
 (803) 775-1970

 Received Date:
 08/21/2024 9:00 AM

 Analysis Date:
 08/26/2024

 Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes	itos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
17W-1	Roof Shingles	Brown/Black Fibrous Heterogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
17W-2	Roof Shingles	Brown/Black Fibrous	5% Glass	95% Non-fibrous (Other)	None Detected
022404795-0002		Heterogeneous			
17W-4	Roof Felt	Black Fibrous	65% Cellulose	35% Non-fibrous (Other)	None Detected
022404795-0003		Homogeneous			None Detected
17W-5	Roof Felt	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
022404795-0004	F t i 0		E% Synthetic	10% Quartz	None Detected
17W-7-Flooring	Flooring Square	Gray Non-Fibrous Homogeneous	5% Synthetic	85% Non-fibrous (Other)	
17W-7-Mastic	Flooring Square	Gray/White	<1% Cellulose	100% Non-fibrous (Other)	None Detected
022404795-0005A	I tooning Oquare	Non-Fibrous Homogeneous		,	
	Electing Square	Gray	5% Synthetic	10% Quartz	None Detected
17W-8-Flooring	Flooring Square	Gray Non-Fibrous Homogeneous	5% Synthetic	85% Non-fibrous (Other)	
	Flooring Square	Tan	<1% Cellulose	100% Non-fibrous (Other)	None Detected
17W-8-Mastic	Flooring Square	Non-Fibrous Homogeneous			
17W-10	Ceilling Texture	Gray/White		30% Ca Carbonate	None Detected
022404795-0007	Centing Texture	Non-Fibrous Heterogeneous		15% Perlite 55% Non-fibrous (Other)	
17W-11	Ceilling Texture	Gray/White		30% Ca Carbonate	None Detected
022404795-0008		Non-Fibrous Heterogeneous		20% Perlite 50% Non-fibrous (Other)	
17W-12	Ceilling Texture	Gray/White		30% Ca Carbonate	None Detected
		Fibrous		15% Perlite	
022404795-0009		Homogeneous		55% Non-fibrous (Other)	
17W-13	Ceilling Texture	Gray/White Non-Fibrous		30% Ca Carbonate 15% Perlite	None Detected
022404795-0010		Homogeneous		55% Non-fibrous (Other)	
17W-14	Ceilling Texture	White Non-Fibrous		30% Ca Carbonate 15% Perlite	None Detected
022404795-0011		Homogeneous		55% Non-fibrous (Other)	
17W-15	Sheetrock System	Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404795-0012		Heterogeneous			
17W-16	Sheetrock System	Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404795-0013		Heterogeneous	1001 0 11 1		None Detected
17W-17	Sheetrock System	White Non-Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404795-0014		Homogeneous			

Initial report from: 08/26/2024 17:18:59

EMSL

EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404795 Customer ID: EMER51 Customer PO:

Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
17W-18	Sheetrock System	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404795-0015		Homogeneous			
17W-19 022404795-0016	Sheetrock System	Brown/Gray Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
17W-20 022404795-0017	Window Glaze	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
17W-21	Window Glaze	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected

Analyst(s)

Cameron Evans (11) Jurnee West (9)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations . The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report matrix and therefore EMSL recommends gravimetric reduction prior to analysis . Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 08/26/2024 17:18:59

ASB_PLM_0008_0002 - 2.31 Printed: 8/26/2024 5:19 PM



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

022404796

PHONE: FAX:

	raid, Inc.		EMSL Custo		<u> </u>	
Street: P.O. Box 3050			City: Sumter		State/Provin	
ip/Postal Code: 29151		Country: US	Telephone #	803-469-5454		469-5465
Report To (Name): Ronn	iy Lowder		Please Provi	de Results:	Fax 🗹 Email	
Email Address: rlowder	@emeralding	c-us.com	Purchase Or			
Project Name/Number: S	Sumter County Pro	oject: 17 W Patricia Dr.	EMSL Projec	t ID (Internal U	se Only). al/Taxable 🔲 Resi	dential/Tex Exemi
J.S. State Samples Take	EMSI -Bill	to: 7 Same Different -	f Bill to is Different	note instructions in		VALUAN LAN CARIN
		Third Party Billing requires writt	en authorization	from third party		
3 Hour 6	Hour	Turnaround Time (TAT) 24 Hour 48 Hour ad to schedule.*There is a premium	72 Ho	ur I 96 H	EPA Level II TAT You	2 Week
authorization form	for this service	Analysis completed in accordance i	with EMSL's Tem	ns and Conditions	located in the Analytical	Price Guide.
P <u>CM - Air</u> []Check if sai irom NY		<u>TEM Air</u> 4-4.5hr TAT (/	AHERA only)	TEM- Dust		
NIOSH 7400		AHERA 40 CFR, Part 76	3	Contraction of the local data	ASTM D 5755	
w/ OSHA 8hr, TWA		NIOSH 7402		Wipe - AS		03/167)
PLM - Bulk (reporting lin		EPA Level II		Soil/Rock/Ve	nication (EPA 600/J-	55(107)
PLM EPA 600/R-93/11		ISO 10312			600/R-93/116 with m	nilling prep (<1%)
PLM EPA NOB (<1%)		TEM - Bulk			600/R-93/116 with m	nilling prep (<0.25%
400 (<0.25%) 1000	(<0.1%)	NYS NOB 198.4 (non-fria	ble-NY)		600/R-93/116 with m	nilling prep (<0.1%)
Point Count w/Gravimetric		Chatfield SOP			itative via Filtration P	
400 (<0.25%) 1000		TEM Mass Analysis-EPA	600 sec. 2.5	Cincinnati	tative via Drop Mour Method EPA 600/R-	04/004 - PLM/TEM
NYS 198.1 (friable in I		TEM - Water: EPA 100.2		(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%)			Ellésa	Pore Size (Air		um 0.45µm
Check For Positive S	top – Clearly I	Gennity HomoGénous Grou	n i ruter			
7				Pore Size (Air	Samples): 0.8	
	ton Rear			Signature:	Delet	er l
Samplers Name: Dal	ton Rear	nes	Samplers	Signature:	Volume/Area (Air)	Date/Time Sampled
7		NES Sample Descripti	Samplers	Signature:	Delet	Date/Time Sampled
Samplers Name: Dal		nes	Samplers	Signature:	Volume/Area (Air)	Date/Time
Samplers Name: Dal		NES Sample Descripti	Samplers	Signature:	Volume/Area (Air)	Date/Time Sampled
Samplers Name: Dal		NES Sample Descripti	Samplers	Signature:	Volume/Area (Air)	Date/Time Sampled
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Samplers Name: Dal		NES Sample Descripti	Samplers	Signature:	Volume/Area (Air)	Date/Time Sampled
Samplers Name: Dal Sample #	Descriptio	nes Sample Descriptions on Following Page	Samplers	Signature:	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled 8/19/2024
Samplers Name: Dal Sample # Cilent Sample # (s): 1		nes Sample Descriptions on Following Page	Samplers	Signature:	Volume/Area (Air) HA # (Bulk)	22
Samplers Name: Dali Sample #	Descriptio	nes Sample Descriptions on Following Page	Samplers ion e	Signature:	Volume/Area (Air) HA # (Bulk)	22
7 Samplers Name: Dal Sample # Client Sample # (s): 1	Descriptio	NES Sample Descriptions on Following Page	Samplers	Signature:	Volume/Area (Air) HA # (Bulk)	22 e: 0900
Samplers Name: Dal Sample # Client Sample # (s): 1 Relinquished (Client): Received (Lab): () ()	Description 7W-1 thru 1	NES Sample Descriptions on Following Page	Samplers	Signature:	Volume/Area (Air) HA # (Bulk)	222 e: 0900
Samplers Name: Dal Sample # Sample # Client Sample # (s): 1 Relinquished (Client): Received (Lab):	Description 7W-1 thru 1	NES Sample Descriptions on Following Page	Samplers	Signature:	Volume/Area (Air) HA # (Bulk)	22 e: 0900
Samplers Name: Dal Sample # Client Sample # (s): 1 Relinquished (Client): Received (Lab): () ()	Description 7W-1 thru 1	NES Sample Descriptions on Following Page	Samplers ion e : <u>8/2</u> : <u>8</u> /2	Signature:	Volume/Area (Air) HA # (Bulk)	22 e: 0900
Samplers Name: Dal Sample # Sample # Client Sample # (s): 1 Relinquished (Client): Received (Lab):) Comments/Special inst Note: Sumter County Project	Description Description 7W-1 thru 1 Define Total Total Total Total Total Total Total Total	NES Sample Descriptions on Following Page 7W-22 - Date X Date	Samplers ion e : <u>8/2</u> : <u>8</u> /2	Signature:	Volume/Area (Air) HA # (Bulk)	22 e: 0900
Samplers Name: Dal Sample # Client Sample # (s): 1 ¹ Relinquished (Client): Received (Lab): () ()	Description Description 7W-1 thru 1 Define Total Total Total Total Total Total Total Total	NES Sample Descriptions on Following Page 7W-22 - Date X Date	Samplers ion e : <u>8/2</u> : <u>8</u> /2	Signature:	Volume/Area (Air) HA # (Bulk)	22 e: 0900

22



Relinquished:

Relinguished:

Received:

Received:

Client Sample # (s)

CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

Date:

Date:

Date:

Date:

Total Samples #.

Time[.]

Time.

Time[.]

Time.

17W-1 thru 17W-22

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284

Phone: (336) 992-1025 Fax: (336) 992-4175 http://www.emsl.com

SAMPLE NUMBER	SAMPLE DESCRIPTION	VOLUME (if applicable)
17\/_1	Roof Shingles	
17W-2 17W-4 17W-5	н	
	U	
17W-4	Roof Felt	
17W-5	0	
	п	
17W-7	Flooring Square	
17W-8	н	
	18	
17W-10	Ceiling Texture	
17W-11	15	
17W-12	11	
17W-13	0	
17W-14	11	
17W-15	Sheetrock System	
17W-16	" /	1
17W-17 17W-18	" 5 sample All	6995
17W-18	"	
17W-19	"	
17W-20	Window Glaze	
17W-21	н	
	n	

of 2 2

APPENDIX D

BUILDING INSPECTOR LICENSES

SCDHEC ISSUED Asbestos ID Card

RONNY LOWDER



	ASB-32201 BI-01497	Expiration Date: 09/18/24 09/18/24
SUPERAHERA	SA-00715	09/17/24



John Dalton Reames, Jr.



APPENDIX E

SITE PHOTOGRAPHS

Sumter City/County Project: 17 W. Patricia Dr., Sumter, S.C.

Photo #4 No Asbestos Detected in Green Flooring Squares



Photo #2 View Depicting Collapsed Sections of Roofing, Ceiling and Wall Comonents







. 1

REA

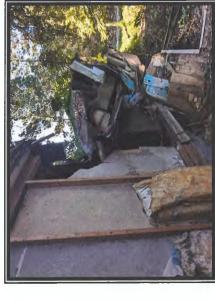


Photo #3 No Asbestos Detected in Sheetrock Wall Sections (No Joint Compound)



Photo #8 No Suspect Materials Observed in Earthen Crawl Space Area



Photo #7 Asbestos Detected at <0.1% in Window Glaze, via TEM Analysis





Photo #6 View Depicting Plywood Ceiling Panel with Spray-applied Texture



Photo #5 No Asbestos Detected in Spray-applied Ceiling Texture



2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE: www.emeraldinc-us.com TELEPHONE (803) 469-5454 FAX (803) 469-5465

ASBESTOS SURVEY REGARDING SUMTER CITY/COUNTY PROJECT DILAPIDATED RESIDENTIAL BUILDING 22 WEST PATRICIA DRIVE SUMTER, SOUTH CAROLINA



Prepared for:

City of Sumter P.O. Box 1449 Sumter, South Carolina 29151

Prepared by:

Emerald, Inc. P.O. Box 3050 Sumter, South Carolina 29151

Date of Inspection: August 19, 2024 Date of Report: August 30, 2024

FOREWORD

This report was prepared by Emerald, Inc. of Sumter, South Carolina, for the City of Sumter, regarding the dilapidated residential building located at 22 W. Patricia Dr. in Sumter, S.C. The contents of this report are confidential and intended for the use of the client only.

J. Dalton Reames, Jr., S.C. Licensed Building Inspector, conducted the inspection, and Ronny L. Lowder, S.C. Licensed Building Inspector and Management Planner, prepared this report. Any questions or comments concerning this report should be directed to Ronny L. Lowder at either (803) 469-5454 or via email at rlowder@emeraldincus.com.

J. Dalton Reames. Jr.

SC Licensed Building Inspector License Number BI-00945 Expiration Date: 11/06/24

SC Licensed AHERA Supervisor License Number SA-01252 Expiration Date: 11/07/24

SC Licensed Air Sampler License Number AS-00287 Expiration Date: 11/07/24

SC Licensed Project Designer License Number PD-00200 Expiration Date: 08/07/25

owder, CHMM

SC Licensed Building Inspector License Number BI-01497 Expiration Date: 09/18/24

SC Licensed AHERA Supervisor License Number SA-00715 Expiration Date: 09/17/24

SC Licensed Mgmt Planner License Number ASB-32201 Expiration Date: 09/18/24

TABLE OF CONTENTS

INTRODUCTION AND OBJECTIVE	1
SURVEY METHODOLOGY	1
HAZARD ASSESSMENT FACTORS (ASBESTOS)	3
Homogeneous Areas	3
Hazard Factors	3
ANALYSIS AND RESULTS	4
Laboratory Analysis	4
Survey Results	4
CONCLUSIONS AND RECOMMENDATIONS	6
ASSUMPTIONS AND LIMITATIONS	7
APPENDICES	8
	INTRODUCTION AND OBJECTIVE SURVEY METHODOLOGY HAZARD ASSESSMENT FACTORS (ASBESTOS) Homogeneous Areas Hazard Factors ANALYSIS AND RESULTS Laboratory Analysis Survey Results CONCLUSIONS AND RECOMMENDATIONS ASSUMPTIONS AND LIMITATIONS APPENDICES.

1.0 INTRODUCTION AND OBJECTIVE

Emerald, Inc. was requested to conduct an Asbestos Survey of the vacant residential structure located at 22 W. Patricia Dr. in Sumter, S.C., to identify the presence of any asbestos-containing materials (ACM), prior to demolition activities. The inspection was authorized by Mr. John Macloskie, Codes Director, with the City of Sumter. The inspection included identification and assessment of the condition of suspect asbestos-containing materials, either friable or non-friable, on the interior and exterior portions of the structure.

This report is a compilation of the inspection and its results.

2.0 SURVEY METHODOLOGY

On August 19, 2024, Emerald, Inc. conducted an Asbestos Survey on the building at the stated address. J. Dalton Reames, Jr., South Carolina Licensed Building Inspector, conducted the inspection.

Estimated to have been constructed circa 1950 for residential purposes, the singlestory residential structure contains approximately 1,260 square feet of interior space. The structure is in significantly dilapidated condition, with collapsed sections of roof, ceiling and wall components. The basic building construction is as follows:

- Wood-framed Walls Built over an Earthen Crawl Space
 - Wood Slats and Wood Sheet Panels Cover Exterior Walls
- Wooden Hipped Roof Structure in Dilapidated Condition
 - Covered with Shingles and Associated Felt
 - Chimney Has Sealant Material Presumed to Contain Asbestos
- Wood-slat Floor Substrate
 - Carpet Layers

- Resilient Sheet Flooring Layer
- Wood-framed Interior Walls Covered with Sheetrock and Wood Panels
- Wooden Ceiling Joists Covered with Sheetrock Sections
 - Spray-applied and Stippled Textures Cover Some Ceiling Areas
- No HVAC Equipment

Future use of the property, following demolition activities, is unknown.

The survey included a visual inspection to identify the presence of material suspected of containing asbestos. This identification was based on the experience and training of the inspector. A total of twenty-nine (29) samples were collected during the survey for laboratory analysis, based upon the required EPA and SC DHEC sampling matrix. Samples were placed in individual containers, labeled and numbered according to the sampling schemes (22W-1 through 22W-29). Of note, samples 22W-24 through 22W-26 were mistakenly described as "Original Ceiling Texture" on the Chain of Custody; subsequently, the laboratory corrected the description of the material to "Window Glazing". Samples 22W-27 through 22W-29 are correctly identified as "Original Ceiling Texture". Per SC DHEC Asbestos Regulations, the independent laboratory is required to sample all layers of each sample. As a result, thirty-four (34) samples were analyzed by the lab, via Polarized Light Microscopy (PLM) while utilizing Positive Stop, and six (6) samples were analyzed, via Transmission Electron Microscopy (TEM). Appendix B contains the Asbestos Survey Log kept during the inspection which identifies the samples collected by sample number, sample type, location and condition assessment, along with any comments. The samples were shipped to EMSL Analytical, Inc. in Kernersville, North Carolina for analysis. Analysis and results are discussed in Section 4.0.

3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)

3.1 Homogeneous Areas

The sample collection was typically conducted by homogeneous materials, i.e., any materials of the same type regarding uniformity throughout in structure or make-up and appearance (color, texture, and/or date of construction/application). Homogeneous materials can be further classified as surfacing materials, thermal system insulation and miscellaneous materials. Miscellaneous materials include ceiling tiles, floor tiles, roofing, caulking, and glazing, etc.

3.2 Hazard Factors

The samples of suspect material collected were classified as either friable (F) or non-friable (NF). Friable means the material can be crumbled, pulverized, or reduced to powder by ordinary hand pressure. Materials initially determined to be non-friable can receive a reclassification of friable if the material is damaged, thereby providing an avenue for release of asbestos fibers. Friable asbestos-containing material (ACM) has been determined by EPA and OSHA to be a greater hazard (health risk) than non-friable ACM. In assessing the fiber release potential, the current condition of the suspect materials sampled was noted in the Asbestos Survey Log (Appendix B). The condition was denoted as good, damaged, or significantly damaged. Current condition is a factor used to assess the potential for fiber release. Other factors used to determine potential fiber release include air movement, surface type, and area activity as related to human occupancy.

3

4.0 ANALYSIS AND RESULTS

4.1 Laboratory Analysis

Bulk samples were analyzed by EMSL Analytical, Inc. using Polarized Light Microscopy (PLM) with Dispersion Staining Techniques (EPA Bulk Analysis Method 600/R-93/116). This method utilizes part of the bulk sample which is mounted on a slide and exposed to an oil of specific refractive index. This prepared slide is then subjected to a variety of optical tests.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of asbestos content are then determined through visual estimating. Although this is an estimate, any material containing greater than one percent of any type of asbestos is classified as ACM by the EPA. Any material classified as ACM must be handled accordingly.

Under the revised South Carolina Asbestos Regulation 61-86.1 effective June 27, 2008, any analysis of non-friable organically bound (NOB) material that is found to be negative via PLM testing, must have confirmation testing via Transmission Electron Microscopy (TEM) on one sample from each media; therefore, six (6) samples were analyzed by the lab, via TEM testing.

4.2 Survey Results

Samples were collected and tested from various suspect materials, as referenced in Appendix B, Asbestos Sample Log. Samples of cream sheet flooring, brown carpet backing, brownish gold shag carpet backing, window glaze, roofing shingles and roofing felt were verified as negative, via TEM analysis.

Appendix C contains a copy of the analytical results from the laboratory. of the analytical results from the laboratory.

4

TABLE 1 DILAPIDATED RESIDENTIAL STRUCTURE 22 WEST PATRICIA DRIVE SUMTER, SOUTH CAROLINA ASBESTOS-CONTAINING MATERIALS (ACM)

Description	Location	Category (F/NF)	Approx. SF/LF
Original Section Sheetrock Ceiling and Wall System	Ceilings and Walls throughout the Original 30'x30' Footprint of the Structure	F – Significantly Damaged Condition	2,820 SF
Chimney Flashing Sealant ⁽¹⁾ Presumed Asbestos Containing Material (PACM)	Chimney Base at Roof Penetration	NF – Cat. I – Good Condition	12 LF

Note: F - Friable

- NF Non-Friable
- (1) Chimney flashing was observed but could not be accessed, due to hazardous roof conditions; therefore, the flashing material is PACM.

EMERALD, INC., CONDUCTED THE SURVEY TO THE BEST OF ITS ABILITY, ADHERING TO INDUSTRY STANDARDS. THE QUANTITIES PROVIDED IN THIS REPORT ARE APPROXIMATE AND SHALL SERVE AS A BASIS FOR ABATEMENT BID SUBMITTALS. IF ADDITIONAL SUSPECT MATERIALS ARE IDENTIFIED DURING RENOVATION OR DEMOLITION ACTIVITY, THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE BUILDING OWNER'S REPRESENTATIVE.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the inspection of August 19, 2024, and the analytical results from the samples collected and tested by an independent laboratory, the dilapidated residential building located at 22 W. Patricia Dr. in Sumter, S.C., does contain friable ACM, as well as non-friable material presumed to contain asbestos, as per Table 1. Such materials will have to be removed and properly disposed by a S.C. licensed abatement contractor per SC DHEC Bureau of Air Quality Asbestos Regulation 61-86.1 effective May 27, 2011, prior to demolition activities involving the asbestos-containing materials.

6.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection of August 19, 2024. Emerald, Inc., their representative and this report make no representation and/or assumptions as to past conditions or future occurrences. The information, conclusions and recommendations provided herein do not constitute as legal or medical advice. It is further understood that Emerald, Inc. makes no representations or warranties of any kind. Nor are such representations or warranties to be implied with respect to the data furnished. Emerald, Inc. assumes no responsibility with respect to the customers and its employees use thereof.

The information provided herein applies only to the subject property as it existed during Emerald, Inc.'s site visit. If this site's use and/or conditions change, information, observations and recommendations found herein would no longer apply. This report is intended to be used in its entirety. No excerpts may be taken to typify the findings of this survey. Emerald, Inc. shall not be liable for any special, consequential and/or exemplary damages resulting, in whole or in part, from the customer's use of the data provided. It was not within the scope of this investigation to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Our selection of sample locations and frequency is based upon our observations and the assumption that like materials in the same are homogeneous.

Emerald, Inc. conducted the survey to the best of its ability using the standards of the industry. In the event additional materials are found to contain asbestos, Emerald, Inc. shall not be liable for any failure of such findings during its initial survey.

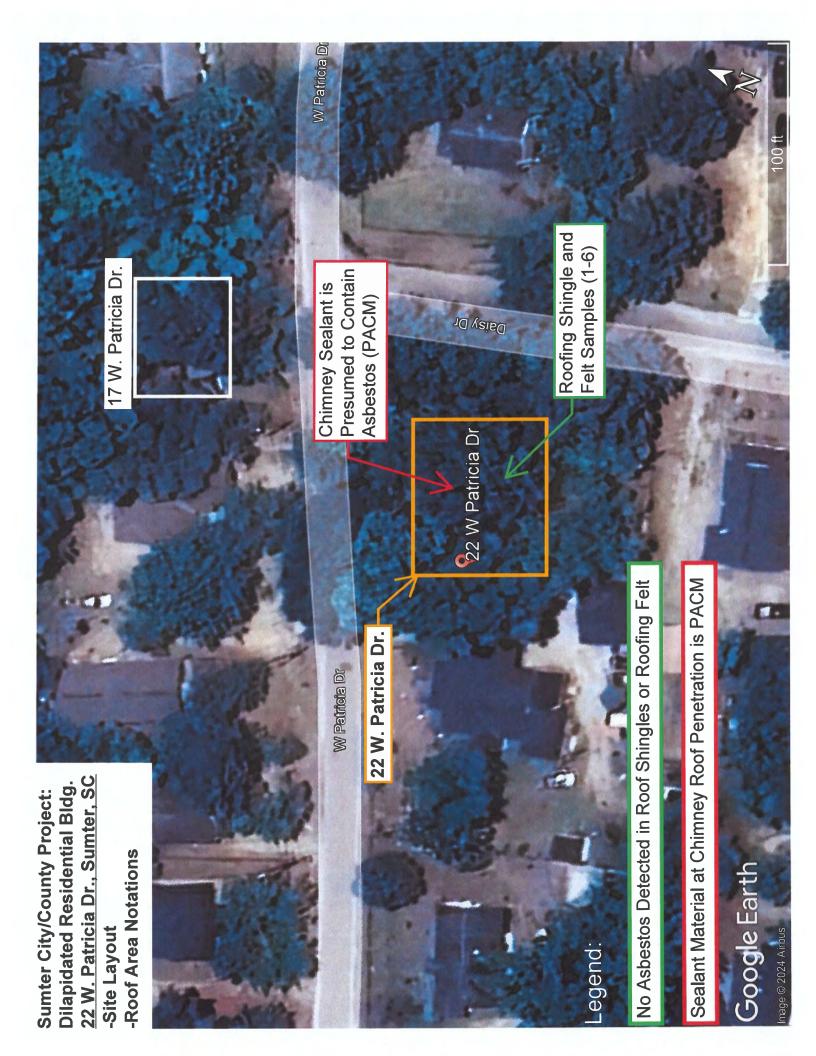
7

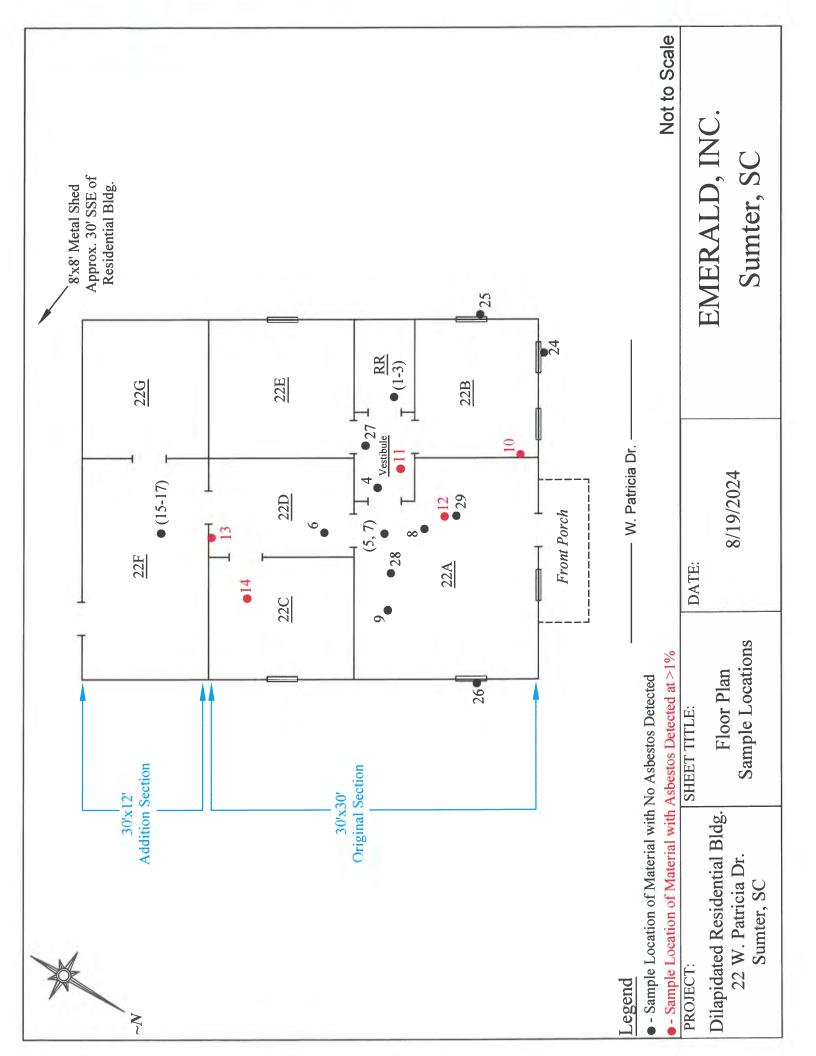
7.0 APPENDICES

APPENDIX A. Site Plan
APPENDIX B. Asbestos Sample Log
APPENDIX C. Chain of Custody & Analytical Results
APPENDIX D. Building Inspector Licenses
APPENDIX E. Site Photographs

APPENDIX A

SITE PLAN





APPENDIX B

ASBESTOS SAMPLE LOG

EMERALD, INC. ASBESTOS SAMPLE LOG

PROJECT NAME: Sumter City/County Project: 22 W. Patricia Dr. ADDRESS: 22 W. Patricia Dr., Sumter, S.C.

DATE: 8/19/2024 INSPECTOR: Dalton Reames

LOC/	LOCATION						VOddav	Ŭ	POTE	INTIAL I	POTENTIAL FOR FUTURE DISTURBANCE	URE DI	STURBA	BANCE AIR FROSION	NO
FLOOR ROOM EXACT	EXA	5	DESCRIPTION	CONDITION	ТҮРЕ	F/NF	APPROX. SF/LF	T	M	-	H M		H	M	L
RR	Floo	ž	Cream-colored Sheet Flooring	U	Σ	NF	40 SF	×			×		×		
													1		
Vestibule															
22A Floor	Flo	or	Backing of Brown Carpet	U	Σ	NF	1,260 SF	×			 ×		×		
22D															
			Backing of Thick ails Coldon												
First 22A Floor	6F	õ	backing of I nick-pile, Golgen Brown Carpet	U	Σ	NF	800 SF	×			×		×		
22B V	^	Wall													
Vestibule Ce	Ű	Ceiling	-												
First 22A Ce	Ű	Ceiling	Original Home Section: Sheetrock Ceiling and Wall System	SD	S	щ	2,820 SF	×			×		×		
22D /	_	Wall													
22C C6	Ű	Ceiling													
Ado	Ado	Addition													
First 22F Sec	Sec	Section	Addition Section: Ceiling Sheetrock System with Stippled Texture	SD	S	ш	360 SF	×			×		×		
	E C C	Celling													
Roof			Green and Charcoal-colored Koot Shingles	U	Σ	NF	1,800 SF	×			 ×		×		
													_		
aracters indicate m	ate m	ateria	Red characters indicate materials with asbestos detected at 4%.				And a second								
2			<u>Type</u> S= Surface TSI= Thermal Systems Insulation M4- Miscrollensous		<u>E/NF</u> F= Fri NF= N	<u>E/NF</u> F= Friable NF= Non Friable	a)		Potentia H= High M= Mod	<u>Potential for F</u> H= High M= Moderate	Potential for Future Disturbance H= High M= Moderate	turbanc	al		
SD= Significantly Damaged			M= Miscellaneous						L= LOW						

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: <u>Sumter City/County Project: 22 W. Patricia Dr.</u> ADDRESS: <u>22 W. Patricia Dr., Sumter, S.C.</u>

DATE: 8/19/2024 INSPECTOR: Dalton Reames

	OSION	R																		
POTENTIAL FOR FUTURE DISTURBANCE	AIR EROSION	H		×			 ×			×			×				-			
DISTUR		-																		DCe
JTURE	VIBRATION	Σ																		<u> jisturba</u>
FOR FL	VIBF	н		×			×			×	L		×							Potential for Future Disturbance H= High M= Moderate L= Low
ENTIAL	L	-																		<u>Potential for F</u> H= High M= Moderate L= Low
POT	CONTACT	V																		<u>Potentia</u> H= High M= Mod L= Low
	Ŭ	н		×			×			×			×							
	APPROX.	SF/LF		1,800 SF		288 LF on 6	Window	Units		800 SF			12 LF						an read of the state of the sta	
		F/NF		ЧZ			NF			ш			NF							<u>E/NF</u> F= Friable NF= Non Friable
		TYPE		Σ			Σ			S			Σ						PACM)	<u>E/NF</u> F= Fri NF= N
		CONDITION		U			U			SD			U						ing Material (
		DESCRIPTION		Roofing Felt			Window Glaze			Original Home Section: Ceiling Texture		Chimney Flashing Sealant is	PACM; Could Not be Sampled,	due to Hazardous Roof Conditions					Chimney flashing sealant material is Presumed Asbestos-containing Material (PACM)	<u>Type</u> S= Surface TSI= Thermal Systems Insulation M= Miscellaneous
	No Galo	EXACT					/ Units			Ceiling			netration						ant mater	
LOCATION		ROOM		Roof			Window Units		Vestibule	22A	22A		Rooftop at Chimney Penetration						ashing seal	
		FLOOR					Exterior			First			Rooftop at						Chimney fl	tly Damaged
		SAMPLE #	22W-21	22W-22	22W-23	22W-24	22W-25	22W-26	22W-27	22W-28	22W-29	Presumed	Asbestos Containing	Material					Note:	<u>Condition</u> G= Good D= Damaged SD= Significantly Damaged

APPENDIX C

CHAIN OF CUSTODY & ANALYTICAL RESULTS



Attention: Ronny Lowder

Emerald, Inc.

PO Box 3050

2520 Tahoe Drive

Sumter, SC 29151

EMSL Analytical, Inc.

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

Project: Sumter County Project : 22 W. Patricia Dr. (Sumter County)

EMSL Order: 022404793 Customer ID: EMER51 Customer PO: Project ID: Sumter County

 Phone:
 (803) 469-5454

 Fax:
 (803) 775-1970

 Received Date:
 08/21/2024 9:00 AM

 Analysis Date:
 08/28/2024

 Collected Date:

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

Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
Cream Sheet Flooring	Gray/Tan/Beige Fibrous	100.0 Other	None	No Asbestos Detected
Brown Carpet - Backing	Brown/Gray/Clear Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
Shag Carpet - Backing	Brown/Gray/Tan Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
Roof Shingle	Gray/Black/Green Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
Roof Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
Window Glazing	Gray/Tan/Green Non-Fibrous Heterogeneous	100.0 Other	<0.1 Fibrous_Other	No Asbestos Detected
	Cream Sheet Flooring Brown Carpet - Backing Shag Carpet - Backing Roof Shingle Roof Felt	Cream Sheet Flooring Gray/Tan/Beige Fibrous Heterogeneous Brown Carpet - Backing Brown/Gray/Clear Fibrous Heterogeneous Shag Carpet - Backing Brown/Gray/Tan Fibrous Heterogeneous Shag Carpet - Backing Brown/Gray/Tan Fibrous Heterogeneous Roof Shingle Gray/Black/Green Fibrous Heterogeneous Roof Felt Black Fibrous Homogeneous Window Glazing Gray/Tan/Green Non-Fibrous Non-Fibrous	Cream Sheet Flooring Gray/Tan/Beige 100.0 Other Fibrous Fibrous Heterogeneous Brown Carpet - Backing Brown/Gray/Clear 100.0 Other Fibrous Heterogeneous 100.0 Other Shag Carpet - Backing Brown/Gray/Tan 100.0 Other Fibrous Heterogeneous 100.0 Other Shag Carpet - Backing Brown/Gray/Tan 100.0 Other Fibrous Heterogeneous 100.0 Other Fibrous Heterogeneous 100.0 Other Roof Shingle Gray/Black/Green 100.0 Other Fibrous Heterogeneous 100.0 Other Roof Felt Black 100.0 Other Fibrous Homogeneous 100.0 Other Window Glazing Gray/Tan/Green 100.0 Other Non-Fibrous Non-Fibrous 100.0 Other	Cream Sheet FlooringGray/Tan/Beige Fibrous Heterogeneous100.0 OtherNoneBrown Carpet - BackingBrown/Gray/Clear Fibrous Heterogeneous100.0 OtherNoneShag Carpet - BackingBrown/Gray/Clear Fibrous Heterogeneous100.0 OtherNoneShag Carpet - BackingBrown/Gray/Tan Fibrous Heterogeneous100.0 OtherNoneRoof ShingleGray/Black/Green Fibrous Heterogeneous100.0 OtherNoneRoof FeltBlack Fibrous Heterogeneous100.0 OtherNoneRoof FeltBlack Fibrous Homogeneous100.0 OtherNoneWindow GlazingGray/Tan/Green Non-Fibrous100.0 OtherWindow GlazingGray/Tan/Green Non-Fibrous100.0 Other

Analyst(s)

Stephen Bennett (6)

Stephen Bennett, Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/29/2024 17:11:27

ASB_PLMEPANOB_0012_0002 Printed 8/29/2024 5:11:32PM

EMSL	EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@ernsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:	Ronny Lowder	Phone:	(803) 469-5454
	Emerald, Inc.	Fax:	(803) 775-1970
	2520 Tahoe Drive	Received Date:	08/21/2024 9:00 AM
	PO Box 3050	Analysis Date:	08/26/2024
	Sumter, SC 29151	Collected Date:	
Project:	Sumter County Project : 22 W. Patricia Dr. (Sumter County)		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
22W-1	Cream Sheet Flooring	Gray/Beige Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
022404793-0001		Heterogeneous			
22W-2	Cream Sheet Flooring	Gray/Tan Fibrous	30% Cellulose	70% Non-fibrous (Other)	None Detected
022404793-0002		Heterogeneous			
22W-4	Brown Carpet - Backing	Beige Fibrous	90% Synthetic	10% Non-fibrous (Other)	None Detected
022404793-0003		Homogeneous			None Detected
22W-5	Brown Carpet - Backing	Yellow/Beige/Clear Fibrous	<1% Cellulose 90% Synthetic	10% Non-fibrous (Other)	None Detected
022404793-0004		Heterogeneous	05% 0-8-1	FO(New Shrave (Other)	None Detected
22W-7	Shag Carpet - Backing	Tan Fibrous	95% Cellulose	5% Non-fibrous (Other)	None Detected
022404793-0005	01	Homogeneous	OE% Collulate	5% Non fibrour (Other)	None Detected
22W-8	Shag Carpet - Backing	Tan/Yellow/Beige Fibrous Heterogeneous	95% Cellulose <1% Synthetic	5% Non-fibrous (Other)	None Detected
	Original Chapterals			30% Ca Carbonate	None Detected
22W-10-White Joint Compound	Original Sheetrock System	White Non-Fibrous Homogeneous		70% Non-fibrous (Other)	HONG DELECIEU
022404793-0007			1		
22W-10-Beige Joint Compound	Original Sheetrock System	Beige Non-Fibrous Homogeneous	<1% Cellulose	20% Ca Carbonate 76% Non-fibrous (Other)	4% Chrysotile
022404793-0007A					
22W-10-Tape	Original Sheetrock System	Beige Fibrous	100% Cellulose		None Detected
022404793-0007B		Homogeneous			
22W-10-Sheetrock	Original Sheetrock System	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
022404793-0007C		Heterogeneous			
22W-11-White Joint Compound	Original Sheetrock System	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022404793-0008					
22W-11-Sheetrock	Original Sheetrock System	Brown/Gray Fibrous	15% Cellulose 1% Glass	84% Non-fibrous (Other)	None Detected
022404793-0008A		Heterogeneous		00% 0- 0-tt-	None Data-t-d
22W-12-White Joint Compound	Original Sheetrock System	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022404793-0009		nomogeneous			Sec. California
22W-12-Sheetrock	Original Sheetrock System	Brown/Gray Fibrous	10% Cellulose 1% Glass	89% Non-fibrous (Other)	None Detected
022404793-0009A		Heterogeneous	1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
22W-13-White Joint Compound	Original Sheetrock System	White Non-Fibrous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
022404793-0010		Homogeneous			

Initial report from: 08/26/2024 17:20:43

ASB_PLM_0008_0002 - 2.31 Printed: 8/26/2024 5:20 PM



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order:022404793Customer ID:EMER51Customer PO:

Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

		1.6	Non-Asbestos	the second se	Asbestos % Turce
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
22W-13-Tape	Original Sheetrock System	Beige Non-Fibrous	100% Cellulose		None Detected
022404793-0010A		Homogeneous			Positive Stop (Not Analyzed
22W-13-Beige Joint Compound	Original Sheetrock System				Positive Stop (Not Analyzed
022404793-0010B					
22W-13-Sheetrock	Original Sheetrock System	Brown/Gray Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
022404793-0010C		Heterogeneous			
22W-14-White Joint Compound	Original Sheetrock System	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
022404793-0011					
22W-14-Sheetrock	Original Sheetrock System	Brown/Gray Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
022404793-0011A		Heterogeneous			None Datastad
22W-15-Texture	Addition Sheetrock System & Stippled Texture	Gray/Beige Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 5% Mica 64% Non-fibrous (Other)	None Detected
			15% Cellulose	85% Non-fibrous (Other)	None Detected
22W-15-Sheetrock	Addition Sheetrock System & Stippled Texture	Brown/Gray Fibrous Heterogeneous	15% Cellulose	65% Non-Indicus (Other)	NONE Delected
	Addition Sheetrock	Gray/Beige	1% Cellulose	30% Ca Carbonate	None Detected
22W-16-Texture	System & Stippled	Non-Fibrous Homogeneous		5% Mica 64% Non-fibrous (Other)	
22W-16-Sheetrock	Addition Sheetrock	Brown/Gray	15% Cellulose	85% Non-fibrous (Other)	None Detected
022404793-0013A	System & Stippled Texture	Fibrous Heterogeneous			
22W-17-Texture	Addition Sheetrock	White/Beige	1% Cellulose	25% Ca Carbonate	None Detected
022404793-0014	System & Stippled Texture	Non-Fibrous Homogeneous		5% Mica 69% Non-fibrous (Other)	
22W-17-Sheetrock	Addition Sheetrock System & Stippled	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
022404793-0014A	Texture	Heterogeneous			
22W-18	Roof Shingle	Gray/Black/Green Fibrous	5% Glass	95% Non-fibrous (Other)	None Detected
022404793-0015		Heterogeneous		059/ No. 55	None Detected
22W-19 022404793-0016	Roof Shingle	White/Black/Green Fibrous Heterogeneous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
	Roof Felt	Black	70% Cellulose	30% Non-fibrous (Other)	None Detected
22W-21	Root Feit	Fibrous Homogeneous	70% Cellulose		
22W-22	Roof Felt	Black	70% Cellulose	30% Non-fibrous (Other)	None Detected
022404793-0018		Fibrous Homogeneous			
22W-24	Window Glazing	Gray/Green/Beige	<1% Cellulose	10% Ca Carbonate	<1% Chrysotile
022404793-0019		Non-Fibrous Homogeneous	1% Fibrous (Other)	89% Non-fibrous (Other)	
22W-25	Window Glazing	Gray/Tan/Green Non-Fibrous	<1% Cellulose <1% Fibrous (Other)	10% Ca Carbonate 90% Non-fibrous (Other)	<1% Chrysotile
022404793-0020		Heterogeneous			
22W-27	Original Ceiling Texture	Gray/White Non-Fibrous	3% Cellulose	20% Ca Carbonate 10% Perlite	None Detected
022404793-0022		Homogeneous		67% Non-fibrous (Other)	



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404793 Customer ID: EMER51 Customer PO:

Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	stos	Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
22W-28	Original Ceiling Texture	Gray/White Non-Fibrous	3% Cellulose	20% Ca Carbonate 10% Perlite 67% Non-fibrous (Other)	None Detected	
022404793-0023 22W-29	Original Ceiling	Homogeneous Gray/White	1% Cellulose	30% Ca Carbonate	None Detected	
022404793-0024	Texture	Non-Fibrous Homogeneous		69% Non-fibrous (Other)		

Analyst(s)

Nicole MacDowell (20) Scott Combs (14)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 08/26/2024 17:20:43

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



PHONE: FAX:

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Company Name : Emer	ald, Inc.		EMSL Custo	omer ID:		
Street: P.O. Box 3050			City: Sumte		State/Provin	
Zip/Postal Code: 29151		Country: US	Telephone #	#: 803-469-54	54 Fax #: 803-4	69-5465
Report To (Name): Ronn	y Lowder		Please Prov	vide Results:	🗌 Fax 🗹 Email	
Email Address: rlowder	@emeraldii	nc-us.com	Purchase O			
Project Name/Number: S		Project 22 W Patricia Dr.	EMSL Proje	ct ID (Interna	l Use Only): rcial/Taxable 🔲 Resid	dential/Tax Exempt
U.S. State Samples Take	n: sc EMSL-B	ill to: 🔽 Same 🔲 Different	- If Bill to is Differen	nt note instruction:	s in Comments**	Initian Las Exempt
		Third Party Billing requires wi	ritten authonzatio	n from third par	ty	
3 Hour For TEM Air 3 hr through 6 h authonzation form	Hour [r, please call ah for this service.	Turnaround Time (TAT 24 Hour 48 Hour ead to schedule. "There is a premit Analysis completed in accordance	m charge for 3 Ho	our IEM AHERA	6 Hour 1 Week or EPA Level II TAT. You w ns located in the Analytical I	2 Week will be asked to sign an Price Guide.
PCM - Air Check if sar		TEM – Air 4-4.5hr TAT		TEM- Dust		
from NY		AHERA 40 CFR, Part 7	63	Microva	c - ASTM D 5755	
w/ OSHA 8hr. TWA		NIOSH 7402		Wipe - A	STM D6480	
PLM - Bulk (reporting lim	nit)	EPA Level II			Sonication (EPA 600/J-9	93/167)
PLM EPA 600/R-93/11	6 (<1%)	ISO 10312			Vermiculite	
PLM EPA NOB (<1%)		TEM - Bulk			A 600/R-93/116 with m	
Point Count	(<0.1%)	NYS NOB 198.4 (non-fr	iable-NY)		A 600/R-93/116 with m A 600/R-93/116 with m	
Point Count w/Gravimetric		Chatfield SOP			alitative via Filtration Pi	
400 (<0.25%) 1000	(<0.1%)	TEM Mass Analysis-EP	A 600 sec. 2.5	TEM QL	alitative via Drop Moun ati Method EPA 600/R-0	
NYS 198.1 (friable in N	IY)	TEM - Water: EPA 100.2		(BC only)	ati Method EPA 600/R-L	14/004 - FLIVI/ 1 EIVI
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%)	on - Clearly	Identify Homogenous Gro	un Filter	Pore Size (A	ir Samples): 0.8µ	ım 🔲 0.45µm
Samplers Name: Dalt				s Signature:	DalleRa	0
Sample #		Sample Descrip	tion		Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
	Descript	ions on Following Pag	le			8/19/2024
						and the second second
		2014/ 20			7.4.1.4.60	a
Client Sample # (s): 22	W-1 thru	2 P-1	onla-		Total # of Samples: 2	000-
Relinquished (Client):	Alle	Dat Dat	ue: 8/20	12024	Time	:090e
Received (Lab):	Sure	Dat Dat	te: 8.21-	24	Time	: Yan
Comments/Special Instr Note: Sumter County Project	uctions:					
DRAL		771,52	. 2			
3)UN HUS	5-150	77453Page 1 0	f pages			
Controlled Document - Asbestos COC	- R10 - 05/09/2016					
		A				()
		\mathcal{A}				\smile

Page 1 Of 2

4793



CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284

Client Sample # (s)	22W-1 thru 22W-29	Total Samples #:	29	Phone ⁻ (336) 992-1025
Relinguished:	Date:	Time:		Fax: (336) 992-4175
Received:	Date:	Time:		http://www.emsl.com
Relinquished	Date:	Time:		
Received:	Date:	Time:		

SAMPLE NUMBER	SAMPLE DESCRIPTION	VOLUME (if applicable)
22W-1	Cream Sheet Flooring	
22W-2	0	
and should	9	
22W-4	Brown Carpet - Backing	
22W-5	0	
	п	
22W-7	Shag Carpet - Backing	
22W-8	Н	
	Н	
22W-10	Original Sheetrock System	
22W-11	n	
22W-12	" Sauple All	Tavers
22W-13	" (() -
22W-14		
22W-15	Addition Sheetrock System & Stippled Texture	
22W-16	" Same	le All Largys
22W-10	"	and cy to
22W-17	Roof Shingle	· · · · · · · · · · · · · · · · · · ·
22W-19_	"	
2200-15	И	
22W-21	Roof Felt	
22W-22	19	
22W-24	Original Ceiling Texture	
22W-25	0	
22W-26	0	
22W-27	10	
22W-28		
22W-29		

2072

APPENDIX D

BUILDING INSPECTOR LICENSES

SCDHEC ISSUED Asbestos ID Card

RONNY LOWDER



CONSULTMP ASB-32201 CONSULTBI BI-01497 SUPERAHERA SA-00715

.

Expiration Date: 09/18/24 09/18/24 09/17/24

1



John Dalton Reames, Jr.



Expiration Date: 11/07/24 11/06/24 AIRSAMPLER CONSULTBI AS-00287 BI-00945 CONSULTPD PD-00200 SUPERAHERA SA-01252

08/07/25

11/07/24

APPENDIX E

SITE PHOTOGRAPHS

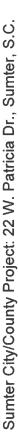


Photo #4 No Suspect Materials Observed in the Earthen Crawl Space Area





No Suspect Materials Associated with a Standalone, Metal Shed Unit Photo #3





Photo #2 Northwest-facing View Depicting the Additional Rear Section to the Original Structure



Photo #1 South-facing View Depicting the Front of the Residential Structure

Sumter City/County Project: 22 W. Patricia Dr., Sumter, S.C.

Photo #8 Asbestos-containing Sheetrock Wall & Ceiling Debris Scattered in Room 22B



Asbestos Detected at 4% in Sheetrock System of Original House Footprint Photo #7





Photo #6 Chimney Flashing Sealant is Presumed to Contain Asbestos (PACM)

Photo #5 No Asbestos Detected in Roofing Shingles or Felt Layer

Sumter City/County Project: 22 W. Patricia Dr., Sumter, S.C.

Photo #12 View Depicting the Interior of Room 22F in the Addition Section



Photo #11 No Asbestos Detected in the Sheetrock Ceiling or Textured Material in the Addition Section





Photo #10 No Asbestos Detected in Cream-colored Sheet Flooring

Photo #9 No Asbestos Detected in Carpet Materials





2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE: www.emeraldinc-us.com TELEPHONE (803) 469-5454 FAX (803) 469-5465

ASBESTOS SURVEY REGARDING SUMTER CITY/COUNTY PROJECT DILAPIDATED RESIDENTIAL BUILDING 28 MONROE STREET SUMTER, SOUTH CAROLINA



Prepared for:

City of Sumter P.O. Box 1449 Sumter, South Carolina 29151

Prepared by:

Emerald, Inc. P.O. Box 3050 Sumter, South Carolina 29151

Date of Inspection: August 14, 2024 Date of Report: August 27, 2024

FOREWORD

This report was prepared by Emerald, Inc. of Sumter, South Carolina, for the City of Sumter, regarding the dilapidated residential building located at 28 Monroe St. in Sumter, S.C. The contents of this report are confidential and intended for the use of the client only.

J. Dalton Reames, Jr., S.C. Licensed Building Inspector, conducted the inspection, and Ronny L. Lowder, S.C. Licensed Building Inspector and Management Planner, prepared this report. Any questions or comments concerning this report should be directed to Ronny L. Lowder at either (803) 469-5454 or via email at rlowder@emeraldincus.com.

J. Dalton Reames. Jr.

SC Licensed Building Inspector License Number BI-00945 Expiration Date: 11/06/24

SC Licensed AHERA Supervisor License Number SA-01252 Expiration Date: 11/07/24

SC Licensed Air Sampler License Number AS-00287 Expiration Date: 11/07/24

SC Licensed Project Designer License Number PD-00200 Expiration Date: 08/07/25

Lowder, CHMM

SC Licensed Building Inspector License Number BI-01497 Expiration Date: 09/18/24

SC Licensed AHERA Supervisor License Number SA-00715 Expiration Date: 09/17/24

SC Licensed Mgmt Planner License Number ASB-32201 Expiration Date: 09/18/24

TABLE OF CONTENTS

1.0	INTRODUCTION AND OBJECTIVE	1
2.0	SURVEY METHODOLOGY	1
3.0	HAZARD ASSESSMENT FACTORS (ASBESTOS)	3
3.1	Homogeneous Areas	3
3.2	Hazard Factors	3
4.0	ANALYSIS AND RESULTS	4
4.1	Laboratory Analysis	4
4.2	Survey Results	4
5.0	CONCLUSIONS AND RECOMMENDATIONS	6
6.0	ASSUMPTIONS AND LIMITATIONS	7
7.0	APPENDICES	8

1.0 INTRODUCTION AND OBJECTIVE

Emerald, Inc. was requested to conduct an Asbestos Survey of the vacant residential structure located at 28 Monroe St. in Sumter, S.C., to identify the presence of any asbestos-containing materials (ACM), prior to demolition activities. The inspection was authorized by Mr. John Macloskie, Codes Director, with the City of Sumter. The inspection included identification and assessment of the condition of suspect asbestos-containing materials, either friable or non-friable, on the interior and exterior portions of the structure.

This report is a compilation of the inspection and its results.

2.0 SURVEY METHODOLOGY

On August 14, 2024, Emerald, Inc. conducted an Asbestos Survey on the building at the stated address. J. Dalton Reames, Jr., South Carolina Licensed Building Inspector, conducted the inspection.

Estimated to have been constructed circa 1957 for residential purposes, the singlestory residential structure contains approximately 721 square feet of interior space. The basic building construction is as follows:

- Wood-framed Walls Built over an Earthen Crawl Space
 - Wood Slat and Wood Panel Exterior Wall Sections
- Wooden A-framed Roof Structure
 - Shingles and Associated Felt
- Wood Floor Substrate
 - Resilient Sheet Flooring in Room 28E
 - Uncovered Wood Substrate in Most of Structure
- Wood-framed Interior Walls

- Sheetrock with Joint Compound Sections
- OSB Panels
- Wood Paneling over Sheetrock
- Wooden Ceiling Components Covered with Sheetrock and Wood Panel Sections
- No HVAC Equipment

Future use of the property, following demolition activities, is unknown.

The survey included a visual inspection to identify the presence of material suspected of containing asbestos. This identification was based on the experience and training of the inspector. A total of twenty (20) samples were collected during the survey for laboratory analysis, based upon the required EPA and SC DHEC sampling matrix. Samples were placed in individual containers, labeled and numbered according to the sampling schemes (28-1 through 28-20). Per SC DHEC Asbestos Regulations, the independent laboratory is required to sample all layers of each sample. As a result, twenty-four (24) samples were analyzed by the lab, via Polarized Light Microscopy (PLM) while utilizing Positive Stop, and five (5) samples were analyzed, via Transmission Electron Microscopy (TEM). Appendix B contains the Asbestos Survey Log kept during the inspection which identifies the samples collected by sample number, sample type, location and condition assessment, along with any comments. The samples were shipped to EMSL Analytical, Inc. in Kernersville, North Carolina for analysis. Analysis and results are discussed in Section 4.0.

3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)

3.1 Homogeneous Areas

The sample collection was typically conducted by homogeneous materials, i.e., any materials of the same type regarding uniformity throughout in structure or make-up and appearance (color, texture, and/or date of construction/application). Homogeneous materials can be further classified as surfacing materials, thermal system insulation and miscellaneous materials. Miscellaneous materials include ceiling tiles, floor tiles, roofing, caulking, and glazing, etc.

3.2 Hazard Factors

The samples of suspect material collected were classified as either friable (F) or non-friable (NF). Friable means the material can be crumbled, pulverized, or reduced to powder by ordinary hand pressure. Materials initially determined to be non-friable can receive a reclassification of friable if the material is damaged, thereby providing an avenue for release of asbestos fibers. Friable asbestos-containing material (ACM) has been determined by EPA and OSHA to be a greater hazard (health risk) than non-friable ACM. In assessing the fiber release potential, the current condition of the suspect materials sampled was noted in the Asbestos Survey Log (Appendix B). The condition was denoted as good, damaged, or significantly damaged. Current condition is a factor used to assess the potential for fiber release. Other factors used to determine potential fiber release include air movement, surface type, and area activity as related to human occupancy.

4.0 ANALYSIS AND RESULTS

4.1 Laboratory Analysis

Bulk samples were analyzed by EMSL Analytical, Inc. using Polarized Light Microscopy (PLM) with Dispersion Staining Techniques (EPA Bulk Analysis Method 600/R-93/116). This method utilizes part of the bulk sample which is mounted on a slide and exposed to an oil of specific refractive index. This prepared slide is then subjected to a variety of optical tests.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of asbestos content are then determined through visual estimating. Although this is an estimate, any material containing greater than one percent of any type of asbestos is classified as ACM by the EPA. Any material classified as ACM must be handled accordingly.

Under the revised South Carolina Asbestos Regulation 61-86.1 effective June 27, 2008, any analysis of non-friable organically bound (NOB) material that is found to be negative via PLM testing, must have confirmation testing via Transmission Electron Microscopy (TEM) on one sample from each media; therefore, five (5) samples were analyzed by the lab, via TEM testing.

4.2 Survey Results

Samples were collected and tested from various suspect materials, as referenced in Appendix B, Asbestos Sample Log. Samples of wood-design sheet flooring, roofing shingles and roofing felt were verified as negative, via TEM analysis.

Appendix C contains a copy of the analytical results from the laboratory. of the analytical results from the laboratory.

4

TABLE 1 DILAPIDATED RESIDENTIAL STRUCTURE 28 MONROE STREET SUMTER, SOUTH CAROLINA ASBESTOS-CONTAINING MATERIALS (ACM)

Description	Location	Category (F/NF)	Approx. SF/LF
Sheetrock with Joint Compound Ceiling and Wall System	Attached to Wood Ceiling Joists and Wood-framed Walls (Behind Wood Paneling), as well as Broken Sections Scattered throughout the Floor Area	F – Significantly Damaged Condition	1,250 SF
Chimney Flashing Sealant	Base of Chimney Roof Penetration	Cat. I – NF – Good Condition	12 LF

Note: F - Friable

- NF Non-Friable
- (1) Asbestos detected at <0.1% in window glaze of two window units at the southeast rear corner of the building.

EMERALD, INC., CONDUCTED THE SURVEY TO THE BEST OF ITS ABILITY, ADHERING TO INDUSTRY STANDARDS. THE QUANTITIES PROVIDED IN THIS REPORT ARE APPROXIMATE AND SHALL SERVE AS A BASIS FOR ABATEMENT BID SUBMITTALS. IF ADDITIONAL SUSPECT MATERIALS ARE IDENTIFIED DURING RENOVATION OR DEMOLITION ACTIVITY, THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE BUILDING OWNER'S REPRESENTATIVE.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the inspection of August 14, 2024, and the analytical results from the samples collected and tested by an independent laboratory, the dilapidated residential building located at 28 Monroe St. in Sumter, S.C., does contain friable and non-friable ACM, as per Table 1. Such materials will have to be removed and properly disposed by a S.C. licensed abatement contractor per SC DHEC Bureau of Air Quality Asbestos Regulation 61-86.1 effective May 27, 2011, prior to demolition activities involving the asbestos-containing materials.

Regarding window glazing with asbestos detected at <0.1%, via TEM analysis, SC DHEC, now known as the South Carolina Department of Environmental Services (SC DES), and the Environmental Protection Agency (EPA) do not consider such materials as ACM; however, the Occupational Safety and Health Administration (OSHA) regulations require employers to provide a workplace having asbestos exposures below the Permissible Exposure Limit (PEL), which is 0.1 fiber per cubic centimeter.

6.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection of August 14, 2024. Emerald, Inc., their representative and this report make no representation and/or assumptions as to past conditions or future occurrences. The information, conclusions and recommendations provided herein do not constitute as legal or medical advice. It is further understood that Emerald, Inc. makes no representations or warranties of any kind. Nor are such representations or warranties to be implied with respect to the data furnished. Emerald, Inc. assumes no responsibility with respect to the customers and its employees use thereof.

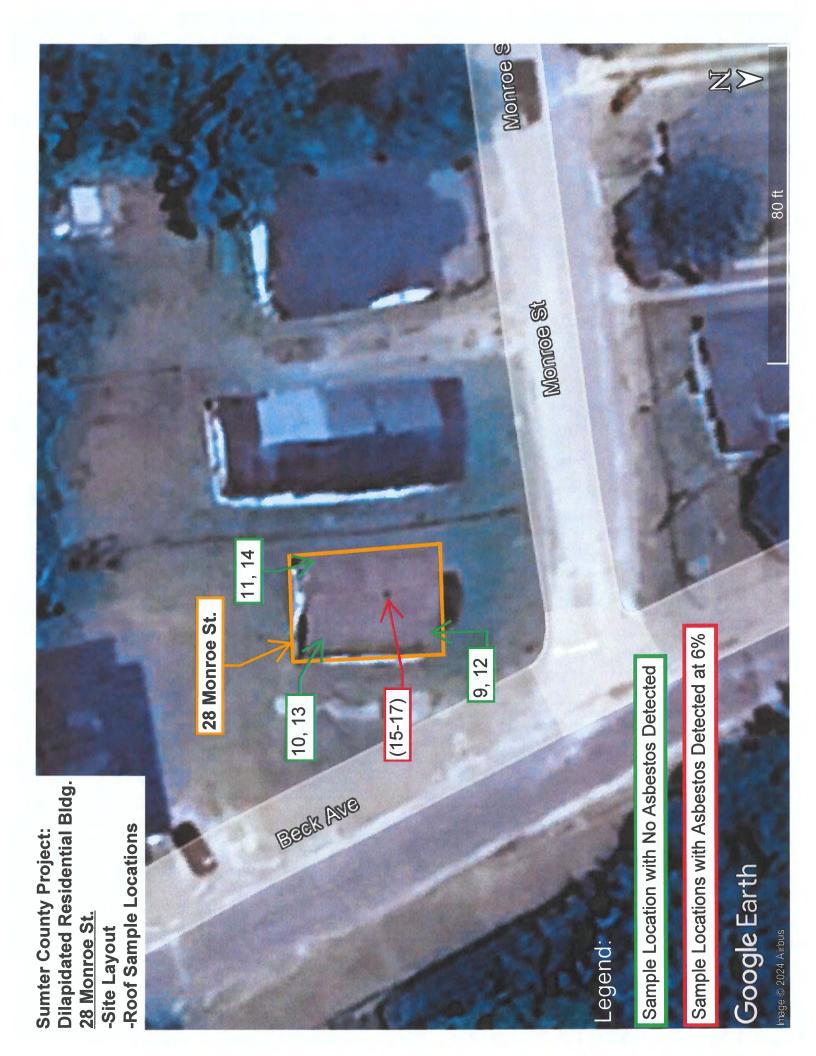
The information provided herein applies only to the subject property as it existed during Emerald, Inc.'s site visit. If this site's use and/or conditions change, information, observations and recommendations found herein would no longer apply. This report is intended to be used in its entirety. No excerpts may be taken to typify the findings of this survey. Emerald, Inc. shall not be liable for any special, consequential and/or exemplary damages resulting, in whole or in part, from the customer's use of the data provided. It was not within the scope of this investigation to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Our selection of sample locations and frequency is based upon our observations and the assumption that like materials in the same are homogeneous.

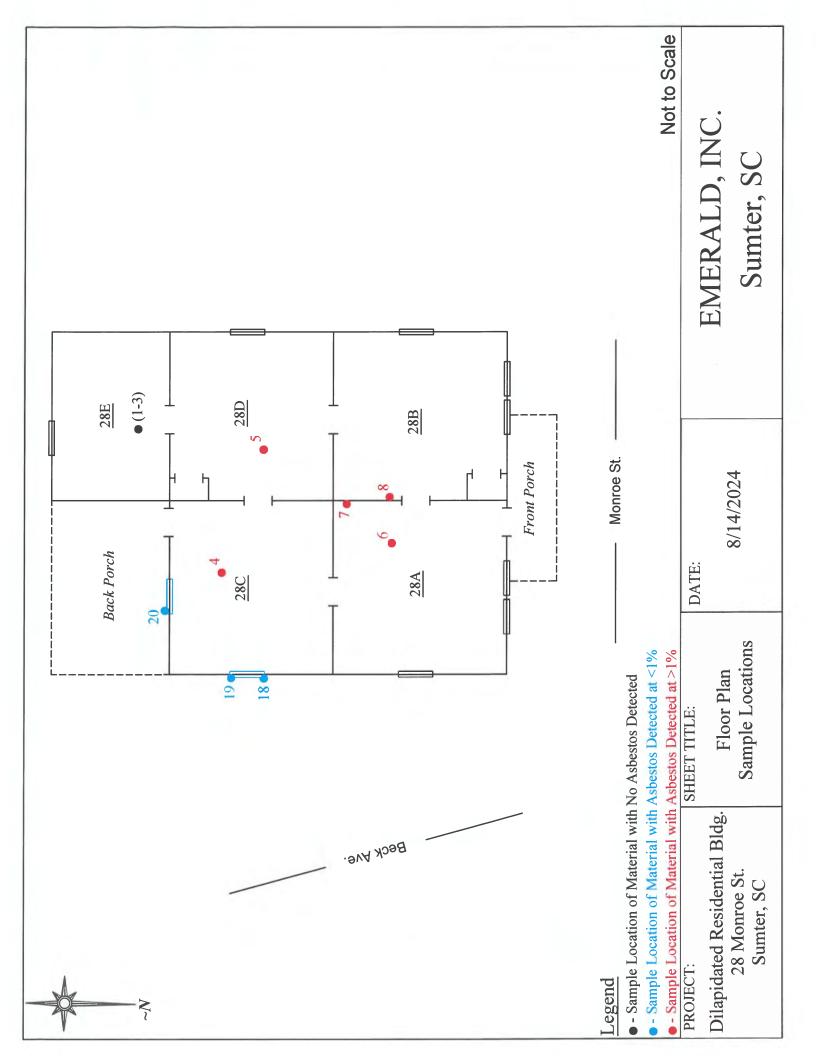
Emerald, Inc. conducted the survey to the best of its ability using the standards of the industry. In the event additional materials are found to contain asbestos, Emerald, Inc. shall not be liable for any failure of such findings during its initial survey.

7.0 APPENDICES

- APPENDIX A. Site Plan
- APPENDIX B. Asbestos Sample Log
- APPENDIX C. Chain of Custody & Analytical Results
- APPENDIX D. Building Inspector Licenses
- APPENDIX E. Site Photographs

APPENDIX A SITE PLAN





APPENDIX B

ASBESTOS SAMPLE LOG

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter County Project: 28 Monroe St. ADDRESS: 28 Monroe St., Sumter, S.C.

DATE: <u>8/14/2024</u> INSPECTOR: <u>Dalton Reames</u>

					1						-													
	SION	-																						
NCE	AIR EROSION	Σ																						
POTENTIAL FOR FUTURE DISTURBANCE	AIF	н		×				×		_		×			×			×			×			
RE DIST	N	-																						bance
FUTUF	VIBRATION	Σ																						e Distur
NL FOR	N	н		×				×				×			×			×			×		at <1%	Potential for Future Disturbance H= High M= Moderate
TENTIA	H	٦																					ected	Potential for F H= High M= Moderate
PO'	CONTACT	M																					s dete	Potentia H= High M= Mod
	Ŭ	н		×				×				×			×			×			×		besto	
	APPROX.	SF/LF		96 SF				1,250 SF				875 SF			875 SF			12 LF		46 LF on 2	Window	Units	ials with as	
		F/NF		NF				ш				NF			NF			NF			NF		ate mater	<u>E/NE</u> F= Friable NF= Non Friable
		TYPE		Σ				S				Σ			Σ			Σ			Σ		ers indica	<u>E/NF</u> F= Fri NF= N
		CONDITION		U				SD				IJ			U			IJ			U		Blue charact	
		DESCRIPTION		Parquet-design Sheet Flooring			Sheetrock with Joint Compound	Ceiling and Wall System (3% Chrysotile in Ceiling and Wall	Components)			Brownish Gray Roof Shingles			Roofing Felt			Chimney Flashing Sealant (6% Chrvsotile)			Exterior Window Glaze (<0.1% Chrysotile)		Red characters indicate materials with asbestos detected at >1%. Blue characters indicate materials with asbestos detected at <1%.	<u>Type</u> S= Surface TSI= Thermal Systems Insulation MA – Miscolanocore
		EXACT		Floor		Ceiling	Ceiling	Ceiling	Wall	Wall								iney		' Units at	ear Corner	ouse	te materia	
LOCATION		ROOM		28E		28C	28D	28A	28A	28B		Roof			Roof			Chimney		2 Window Units at	Southeast Rear Corner	of House	ters indica	
		FLOOR		First				First										Roof			Exterior		Red charac	
		SAMPLE #	28-1	28-2	28-3	28-4	28-5	28-6	28-7	28-8	28-9	28-10	28-11	28-12	28-13	28-14	28-15	28-16	28-17	28-18	28-19	28-20	Note:	<u>Condition</u> G= Good D= Damaged

APPENDIX C

CHAIN OF CUSTODY & ANALYTICAL RESULTS



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order:022404672Customer ID:EMER51Customer PO:Project ID:Sumter County

Attention:	Ronny Lowder	
	Emerald, Inc.	
	2520 Tahoe Drive	
	PO Box 3050	
	Sumter, SC 29151	
Project:	Sumter County Project : 28 Monroe St. (Sumter County)	

Phone: (803) 469-5454 Fax: (803) 775-1970 Received Date: 08/15/2024 9:30 AM Analysis Date: 08/26/2024 Collected Date:

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
28-3 022404672-0016	Parquet Sheet Flooring	Brown/Gray/Tan Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
28-11 022404672-0017	Roof Shingles	Gray/Tan/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
28-14 022404672-0018	Roof Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
28-17-Black Sealant 022404672-0019	Chimney Sealant	Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
28-20 022404672-0020	Window Glaze	Gray/Tan Non-Fibrous Homogeneous	99.62 Other Talc fibers present.	0.38 Fibrous_Other	<0.1% Chrysotile

Analyst(s)

Stephen Bennett (5)

Stephen Bennett, Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/26/2024 17:24:17

ASB_PLMEPANOB_0012_0002 Printed 8/26/2024 5:25:42PM

EMSL	EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:	Ronny Lowder	Phone:	(803) 469-5454
	Emerald, Inc.	Fax:	(803) 775-1970
	2520 Tahoe Drive	Received Date:	08/15/2024 9:30 AM
	PO Box 3050	Analysis Date:	08/20/2024
	Sumter, SC 29151	Collected Date:	
Project:	Sumter County Project : 28 Monroe St. (Sumter County)		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
28-1	Parquet Sheet Flooring	Gray Fibrous Homogeneous	30% Cellulose 2% Glass	68% Non-fibrous (Other)	None Detected
28-2	Parquet Sheet Flooring	Brown/Gray/Tan Fibrous	30% Cellulose 1% Glass	69% Non-fibrous (Other)	None Detected
022404672-0002	riooning	Heterogeneous	170 01235		
28-4-Joint Compound	Sheetrock System	Gray Non-Fibrous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
022404672-0003		Homogeneous			Non-Detected
28-4-Sheetrock	Sheetrock System	Gray Fibrous Heterogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
222404672-0003A 28-5-Texture	Sheetrock System	Tan		20% Ca Carbonate 77% Non-fibrous (Other)	3% Chrysotile
022404672-0004		Non-Fibrous Homogeneous		17 % Not-fibrous (other)	
28-5-Tape	Sheetrock System	Tan Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected
022404672-0004A		Homogeneous			
28-5-Joint Compound	Sheetrock System	Gray Non-Fibrous	2% Cellulose	10% Ca Carbonate 88% Non-fibrous (Other)	None Detected
022404672-0004B		Homogeneous			
28-5-Sheetrock	Sheetrock System	Gray Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected
022404672-0004C	Chaotrook Suptom	Heterogeneous			Positive Stop (Not Analyzed
28-6-Texture	Sheetrock System				Toskite otop (not sindigade
022404672-0005					
28-6-Tape	Sheetrock System	Tan Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected
022404672-0005A		Homogeneous		20% Ca Carbonate	None Detected
28-6-Joint Compound	Sheetrock System	Gray Non-Fibrous Homogeneous		80% Non-fibrous (Other)	None Detected
28-6-Sheetrock	Sheetrock System	Gray Non-Fibrous	6% Cellulose	94% Non-fibrous (Other)	None Detected
022404672-0005C		Homogeneous	and the first second		
28-7-Joint Compound	Sheetrock System	White Fibrous	3% Cellulose	25% Ca Carbonate 69% Non-fibrous (Other)	3% Chrysotile
022404672-0006		Homogeneous			
28-7-Sheetrock	Sheetrock System	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
022404672-0006A		Heterogeneous			
28-8-Texture	Sheetrock System				Positive Stop (Not Analyzed
022404672-0007	0		400% C * 1		None Detected
28-8-Tape 022404672-0007A	Sheetrock System	Tan Fibrous Homogeneous	100% Cellulose		None Detected

Initial report from: 08/20/2024 16:31:33



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175

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

EMSL Order: 022404672 Customer ID: EMER51 Customer PO:

Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbesto	5	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
28-8-Sheetrock 022404672-0007B	Sheetrock System	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
28-9 022404672-0008	Roof Shingles	Black Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
28-10	Roof Shingles	Gray/Tan/Black Fibrous Heterogeneous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
28-12	Roofing Felt	Brown/Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
28-13	Roofing Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
28-15-Gray/Black Sealant	Chimney Sealant	Gray/Black Fibrous Heterogeneous		94% Non-fibrous (Other)	6% Chrysotile
022404672-0012 28-15-Black Sealant	Chimney Sealant	Black Fibrous	7% Cellulose	93% Non-fibrous (Other)	None Detected
022404672-0012A 28-16-Gray / Black Sealant 022404672-0013	Chimney Sealant	Homogeneous			Positive Stop (Not Analyzed)
28-16-Black Sealant	Chimney Sealant	Black Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
28-18	Window Glaze	Gray Non-Fibrous Homogeneous	2% Fibrous (Other)	10% Ca Carbonate 88% Non-fibrous (Other)	None Detected
28-19 022404672-0015	Window Glaze	Gray/Beige Non-Fibrous Homogeneous	<1% Cellulose 2% Fibrous (Other)	10% Ca Carbonate 88% Non-fibrous (Other)	None Detected

Analyst(s)

Cameron Evans (15) Scott Combs (9)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 08/20/2024 16:31:33

ASB_PLM_0008_0002 - 2.31 Printed: 8/20/2024 4:31 PM



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

224046 19

PH'DNE: FAX

Company Name : Emerald, Inc.				EMSL Customer ID:						
Street: P.O. Box 3050				City: Sumter State/Province: SC						
Zip/Postal Code: 29151		Country: U	JS	Telephone #: 803-469-5454 Fax #: 803-469-5465						
	Report To (Name): Ronny Lowder				Please Provide Results: 🔲 Fax 🗹 Email					
Email Address: rlowder		c-us.com		Purchase	e Ord	ler:				
Project Name/Number: S			e St.			ID (Internal				
U.S. State Samples Taker	n: SC								lential/Tax Exempt	
	EMSL-Bi	I to: / Same Third Party Bill	Different -	- If Bill to is Different note instructions in Comments** ritten authonzation from third party						
				Options* – Please Check						
3 Hour 6 Hour 24 Hour 48 Hour				m charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an						
*For TEM Air 3 hr through 6 hi authorization form 1	r, please call ahe for this service.	ad to schedule."T Analysis complete	There is a premiun ed in accordance	n charge for 3 with EMSL's	3 Hour Terms	r TEM AHERA s and Condition	or EPA Lo ns located	evel II A I . You w I in the Analytical F	nii be asked to sign an Price Guide.	
PCM - Air Check if san]4-4.5hr TAT (TEM- Dust				
from NY			0 CFR, Part 76			Microvad	AST	1 D 5755		
				5		Wipe - A				
W/ OSHA 8hr. TWA	14)					<u> </u>		on (EPA 600/J-9	3/167)	
PLM - Bulk (reporting im		ISO 10312			ŀ	Soil/Rock/				
PLM EPA 800/R-93/110	(~170)	TEM - Bulk			-				Illing prep (<1%)	
Point Count									Illing prep (<0.25%)	
400 (<0.25%) 1000	(<0.1%)	NYS NOB	198.4 (non-fria	ble-NY)					illing prep (<0.1%)	
Point Count w/Gravimetric		Chatfield S	•		TEM Qualitative via Filtration Prep				rep	
400 (<0.25%) 1000	(<0.1%)	TEM Mass	TEM Mass Analysis-EPA 600 sec. 2.5					ualitative via Drop Mount Prep nati Method EPA 600/R-04/004 – PLM/TEM		
NYS 198.1 (friable in N	IY)	TEM - Water	: EPA 100.2			(BC only)	ati Metho	00 EPA 600/R-0	04/004 - PLM/1EM	
NYS 198 6 NOB (non-	friable-NY)	Fibers >10µm	Waste [Drinking	-	Other:				
NYS 198.8 SOF-V	· ·		All Fiber Sizes							
NIOSH 9002 (<1%)		AIT IDEI OIZE								
Check For Positive St	op – Clearly	Identify Homo	genous Grou	p Fil	lter P	Pore Size (A	ir Samp	oles): 0.8µ	m 0.45µm	
Samplers Name: Dalt	on Rear	nes		Sampl	lers :	Signature:				
								ne/Area (Air)	Date/Time	
Sample #		Sar	mple Descript	ion			HA	(Bulk)	Sampled	
	Descripti	ons on Foll	owing Page	Э					8/14/2024	
	1									
							-			
Contractor in the										
Client Sample # (s): 28	-1 thru 28	-20					Total #	of Samples: 2	0	
Relinquished (Client): 1000 Date: 8/14/2024 Time: 1700										
Received (Lab): Provent Date: 8-15-24 Time: 9:30										
Comments/Special Instr										
Note: Sumter County Project	21								- Andrew All	
ECX Dr.	1051 -	15-7-7	JC-X	3						
BULL 19	uy i	1527	Page 1 of	2 pag	es					
Controlled Document - Asbestos COC	- R10 - 05/09/2016								0	

15

4672



CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284

Client Sample # (s)	28-1 thru 28-20	Total Samples #:	20	Phone: (336) 992-1025
Relinguished	Date:	Time:		Fax: (336) 992-4175
Received:	Date:	Time:		http://www.emsl.com
Relinguished:	Date:	Time:		
Received:	Date:	Time:		

SAMPLE NUMBER	SAMPLE DESCRIPTION	VOLUME (if applicable)
28-1	Parquet Sheet Flooring	
28-2	н	
	19	
28-4	Sheetrock System	
28-5		
28-6	" > Sange	All Layor S
28-7	"	
28-8	"	
28-9	Roof Shingles	
28-10	0	
	19	
28-12	Roofing Felt	
28-13	н	
28-13	18	
28-15	Chimney Sealant	
28-16	Sample E	soft Layers
The second secon	н) (
28-18	Window Glaze	
28-19	10	
28-19	0	
and the second sec		
	All de la companya de	

2 0 f 2

APPENDIX D

BUILDING INSPECTOR LICENSES

SCDHEC ISSUED Asbestos ID Card

RONNY LOWDER



 Expiration Date:

 CONSULTMP
 ASB-32201
 09/18/24

 CONSULTBI
 BI-01497
 09/18/24

 SUPERAHERA
 SA-00715
 09/17/24

.



John Dalton Reames, Jr.



AIRSAMPLER CONSULTBI CONSULTPD SUPERAHERA

Expiration Date: AS-00287 11/07/24 BI-00945 11/06/24 PD-00200 08/07/25 A SA-01252 11/07/24

APPENDIX E

SITE PHOTOGRAPHS



Photo #1 View Depicting the Front of the Residential Structure





Photo #2 Asbestos Detected at 3% in Sheetrock Ceiling System



Sumter City/County Project: 28 Monroe St., Sumter, S.C.

Photo #3 View Depicting Asbestos-containing Sheetrock Wall behind Wall Paneling

Photo #4 No Asbestos Detected in Wood-design Sheet Flooring



Photo #5
 <1% Asbestos Detected in Window Glaze

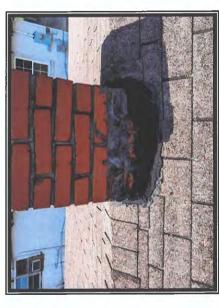




Photo #6 No Asbestos Detected in Roofing Shingles or Associated Felt Material



Photo #7 Asbestos Detected at 6% in Chimney Flashing Sealant

Sumter City/County Project: 28 Monroe St., Sumter, S.C.

Photo #8 No Suspect Materials Associated with the Crawl Space Area



2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE: www.emeraldinc-us.com TELEPHONE (803) 469-5454 FAX (803) 469-5465

ASBESTOS SURVEY REGARDING SUMTER CITY/COUNTY PROJECT DILAPIDATED RESIDENTIAL BUILDING 112 EAST NEWBERRY AVENUE SUMTER, SOUTH CAROLINA



Prepared for:

City of Sumter P.O. Box 1449 Sumter, South Carolina 29151

Prepared by:

Emerald, Inc. P.O. Box 3050 Sumter, South Carolina 29151

Date of Inspection: August 20, 2024 Date of Report: August 29, 2024

FOREWORD

This report was prepared by Emerald, Inc. of Sumter, South Carolina, for the City of Sumter, regarding the dilapidated residential building located at 112 E. Newberry Ave. in Sumter, S.C. The contents of this report are confidential and intended for the use of the client only.

J. Dalton Reames, Jr., S.C. Licensed Building Inspector, conducted the inspection, and Ronny L. Lowder, S.C. Licensed Building Inspector and Management Planner, prepared this report. Any questions or comments concerning this report should be directed to Ronny L. Lowder at either (803) 469-5454 or via email at rlowder@emeraldincus.com.

SC Licensed Building Inspector License Number BI-00945 Expiration Date: 11/06/24

SC Licensed AHERA Supervisor License Number SA-01252 Expiration Date: 11/07/24

SC Licensed Air Sampler License Number AS-00287 Expiration Date: 11/07/24

SC Licensed Project Designer License Number PD-00200 Expiration Date: 08/07/25

owder, CHMM

SC Licensed Building Inspector License Number BI-01497 Expiration Date: 09/18/24

SC Licensed AHERA Supervisor License Number SA-00715 Expiration Date: 09/17/24

SC Licensed Mgmt Planner License Number ASB-32201 Expiration Date: 09/18/24

TABLE OF CONTENTS

1.0	INTRODUCTION AND OBJECTIVE	1
2.0	SURVEY METHODOLOGY	1
3.0	HAZARD ASSESSMENT FACTORS (ASBESTOS)	3
3.1	Homogeneous Areas	3
3.2	Hazard Factors	3
4.0	ANALYSIS AND RESULTS	3
4.1	Laboratory Analysis	3
4.2	Survey Results	4
5.0	CONCLUSIONS AND RECOMMENDATIONS	6
6.0	ASSUMPTIONS AND LIMITATIONS	7
7.0	APPENDICES	8

1.0 INTRODUCTION AND OBJECTIVE

Emerald, Inc. was requested to conduct an Asbestos Survey of the vacant residential structure located at 112 E. Newberry Ave. in Sumter, S.C., to identify the presence of any asbestos-containing materials (ACM), prior to demolition activities. The inspection was authorized by Mr. John Macloskie, Codes Director, with the City of Sumter. The inspection included identification and assessment of the condition of suspect asbestos-containing materials, either friable or non-friable, on the interior and exterior portions of the structure.

This report is a compilation of the inspection and its results.

2.0 SURVEY METHODOLOGY

On August 20, 2024, Emerald, Inc. conducted an Asbestos Survey on the building at the stated address. J. Dalton Reames, Jr., South Carolina Licensed Building Inspector, conducted the inspection.

Estimated to have been constructed circa 1950 for residential purposes, the singlestory residential structure contains approximately 924 square feet of interior space. The basic building construction is as follows:

- Wood-framed Walls Built over an Earthen Crawl Space
 - Exterior Wood Slats Cover the Wood Framework
 - Exterior Vinyl Cladding Covers the Wood Slats
- Wooden A-framed Roof Sections
 - Covered with Shingles and Associated Felt
- Wood Floor Substrate
 - Carpet Layers
 - Resilient Sheet Flooring Layers

- Wood-framed Interior Walls Covered with Wood Panels and Wood Planks
- Wooden Ceiling Joists
 - Original Wood Slats Cover Most Joists
 - Sheetrock over Wood Framing and Joists in Two Rooms
 - Plywood Panels in Some Areas
 - Cellulose-based Tiles Cover Slats in One Room
- No HVAC Equipment
- Adjacent, Wooden Pump House Has is Covered with Roofing Shingles

Future use of the property, following demolition activities, is unknown.

The survey included a visual inspection to identify the presence of material suspected of containing asbestos. This identification was based on the experience and training of the inspector. A total of thirty-six (36) samples were collected during the survey for laboratory analysis, based upon the required EPA and SC DHEC sampling matrix. Samples were placed in individual containers, labeled and numbered according to the sampling schemes (112E-1 through 112E-36). Per SC DHEC Asbestos Regulations, the independent laboratory is required to sample all layers of each sample. As a result, thirty (30) samples were analyzed by the lab, via Polarized Light Microscopy (PLM) while utilizing Positive Stop, and ten (10) samples were analyzed, via Transmission Electron Microscopy (TEM). Appendix B contains the Asbestos Survey Log kept during the inspection which identifies the samples collected by sample number, sample type, location and condition assessment, along with any comments. The samples were shipped to EMSL Analytical, Inc. in Kernersville, North Carolina for analysis. Analysis and results are discussed in Section 4.0.

3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)

3.1 Homogeneous Areas

The sample collection was typically conducted by homogeneous materials, i.e., any materials of the same type regarding uniformity throughout in structure or make-up and appearance (color, texture, and/or date of construction/application). Homogeneous materials can be further classified as surfacing materials, thermal system insulation and miscellaneous materials. Miscellaneous materials include ceiling tiles, floor tiles, roofing, caulking, and glazing, etc.

3.2 Hazard Factors

The samples of suspect material collected were classified as either friable (F) or non-friable (NF). Friable means the material can be crumbled, pulverized, or reduced to powder by ordinary hand pressure. Materials initially determined to be non-friable can receive a reclassification of friable if the material is damaged, thereby providing an avenue for release of asbestos fibers. Friable asbestos-containing material (ACM) has been determined by EPA and OSHA to be a greater hazard (health risk) than non-friable ACM. In assessing the fiber release potential, the current condition of the suspect materials sampled was noted in the Asbestos Survey Log (Appendix B). The condition was denoted as good, damaged, or significantly damaged. Current condition is a factor used to assess the potential for fiber release. Other factors used to determine potential fiber release include air movement, surface type, and area activity as related to human occupancy.

4.0 ANALYSIS AND RESULTS

4.1 Laboratory Analysis

Bulk samples were analyzed by EMSL Analytical, Inc. using Polarized Light

Microscopy (PLM) with Dispersion Staining Techniques (EPA Bulk Analysis Method 600/R-93/116). This method utilizes part of the bulk sample which is mounted on a slide and exposed to an oil of specific refractive index. This prepared slide is then subjected to a variety of optical tests.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of asbestos content are then determined through visual estimating. Although this is an estimate, any material containing greater than one percent of any type of asbestos is classified as ACM by the EPA. Any material classified as ACM must be handled accordingly.

Under the revised South Carolina Asbestos Regulation 61-86.1 effective June 27, 2008, any analysis of non-friable organically bound (NOB) material that is found to be negative via PLM testing, must have confirmation testing via Transmission Electron Microscopy (TEM) on one sample from each media; therefore, ten (10) samples were analyzed by the lab, via TEM testing.

4.2 Survey Results

Samples were collected and tested from various suspect materials, as referenced in Appendix B, Asbestos Sample Log. Samples of tan carpet backing, rose-colored carpet backing, tan square-design sheet flooring, tan weave-design sheet flooring, green floraldesign sheet flooring, main roof shingles, main roofing felt, chimney flashing sealant, and pump house shingles and felt were verified as negative, via TEM analysis.

Asbestos was detected at 0.12% in window glaze, via TEM analysis.

Appendix C contains a copy of the analytical results from the laboratory. of the analytical results from the laboratory.

TABLE 1 DILAPIDATED RESIDENTIAL STRUCTURE 112 EAST NEWBERRY AVENUE SUMTER, SOUTH CAROLINA ASBESTOS-CONTAINING MATERIALS (ACM)

Description	Location	Category (F/NF)	Approx. SF/LF
Sheetrock Ceiling System	Sheetrock Ceilings in Rooms 112A and 112D	F – Good Condition	345 SF

Note: F - Friable

NF - Non-Friable

EMERALD, INC., CONDUCTED THE SURVEY TO THE BEST OF ITS ABILITY, ADHERING TO INDUSTRY STANDARDS. THE QUANTITIES PROVIDED IN THIS REPORT ARE APPROXIMATE AND SHALL SERVE AS A BASIS FOR ABATEMENT BID SUBMITTALS. IF ADDITIONAL SUSPECT MATERIALS ARE IDENTIFIED DURING RENOVATION OR DEMOLITION ACTIVITY, THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE BUILDING OWNER'S REPRESENTATIVE.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the inspection of August 20, 2024, and the analytical results from the samples collected and tested by an independent laboratory, the dilapidated residential building located at 112 E. Newberry Ave. in Sumter, S.C., does contain friable ACM, as per Table 1. Such materials will have to be removed and properly disposed by a S.C. licensed abatement contractor per SC DHEC Bureau of Air Quality Asbestos Regulation 61-86.1 effective May 27, 2011, prior to demolition activities involving the asbestos-containing materials.

Regarding window glazing with asbestos detected at 0.12%, via TEM analysis, SC DHEC, now known as the South Carolina Department of Environmental Services (SC DES), and the Environmental Protection Agency (EPA) do not consider such materials as ACM; however, the Occupational Safety and Health Administration (OSHA) regulations require employers to provide a workplace having asbestos exposures below the Permissible Exposure Limit (PEL), which is 0.1 fiber per cubic centimeter.

6.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection of August 20, 2024. Emerald, Inc., their representative and this report make no representation and/or assumptions as to past conditions or future occurrences. The information, conclusions and recommendations provided herein do not constitute as legal or medical advice. It is further understood that Emerald, Inc. makes no representations or warranties of any kind. Nor are such representations or warranties to be implied with respect to the data furnished. Emerald, Inc. assumes no responsibility with respect to the customers and its employees use thereof.

The information provided herein applies only to the subject property as it existed during Emerald, Inc.'s site visit. If this site's use and/or conditions change, information, observations and recommendations found herein would no longer apply. This report is intended to be used in its entirety. No excerpts may be taken to typify the findings of this survey. Emerald, Inc. shall not be liable for any special, consequential and/or exemplary damages resulting, in whole or in part, from the customer's use of the data provided. It was not within the scope of this investigation to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Our selection of sample locations and frequency is based upon our observations and the assumption that like materials in the same are homogeneous.

Emerald, Inc. conducted the survey to the best of its ability using the standards of the industry. In the event additional materials are found to contain asbestos, Emerald, Inc. shall not be liable for any failure of such findings during its initial survey.

7

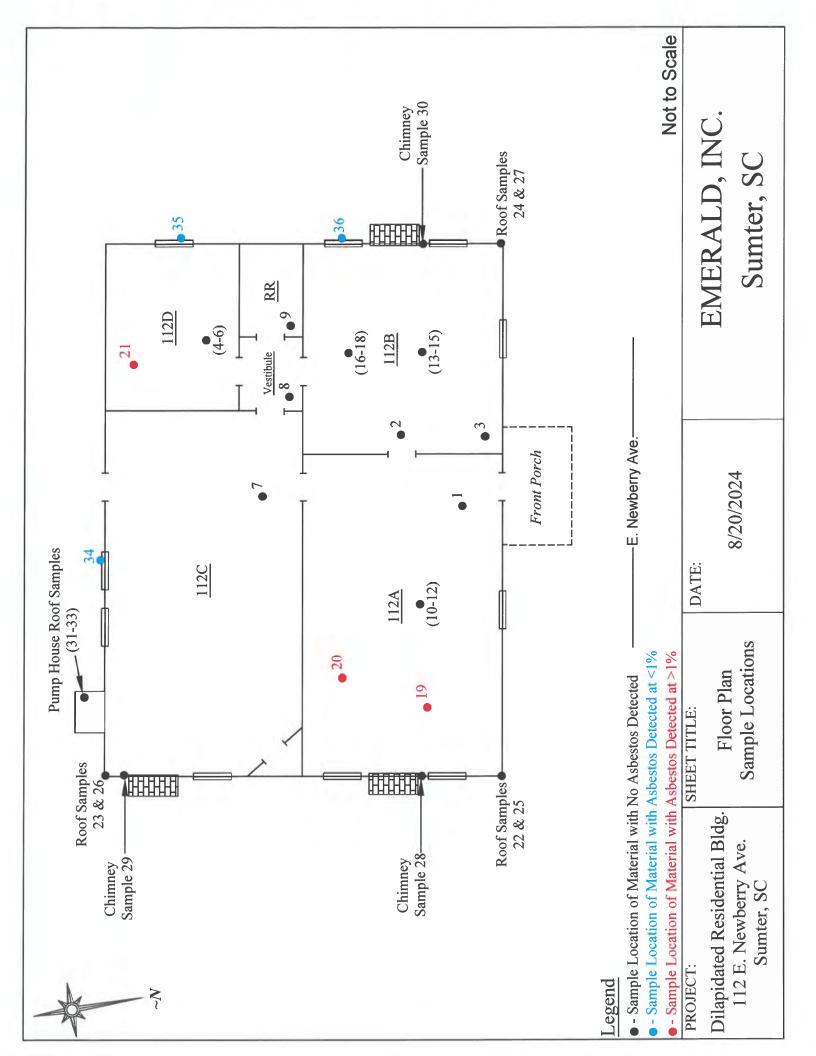
7.0 APPENDICES

APPENDIX A.	Site Plan
APPENDIX B.	Asbestos Sample Log
APPENDIX C.	Chain of Custody & Analytical Results
APPENDIX D.	Building Inspector Licenses
APPENDIX E.	Site Photographs

APPENDIX A

SITE PLAN





APPENDIX B

ASBESTOS SAMPLE LOG

EMERALD, INC. ASBESTOS SAMPLE LOG

PROJECT NAME: Sumter City/County Project: 112 E. Newberry Ave. ADDRESS: 112 E. Newberry Ave., Sumter, S.C.

DATE: 8/20/2024 INSPECTOR: Dalton Reames

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POTENTIAL FOR FUTURE DISTURBANCE	AIR EROSION	Σ																			_				
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TIAL FC		H		×			×			×			×			×			×	_		×			for Fut trate
OTENI	CONTACT	1																							<u>Potential for Future Disturbance</u> H= High M= Moderate L= Low
4		Σ																							입 높 호 급
		н	×		×		×			×			×			×			×						
	APPROX.		403 SF			110 SF			465 SF			234 SF			169 SF			169 SF			345 SF				
	F/NF		NF			RF			NF			NF			RF			Ľ			Ľ				<u>E/NF</u> F= Friable NF= Non Friable
	TYPE			Σ			Σ			Σ			Σ			Σ			Σ			S			<u>E/NF</u> F= Fri: NF= N
	CONDITION			U			U			U			U			U			U			g			
			rpet			ed Carpet			et Flooring			et Flooring			et Flooring			eiling Tile			punoduo			ted at 3%.	cted at 3%. Insulation
		DESCRIPTION		Backing of Tan Carpet			Backing of Rose-colored Carpet			Tan Square-design Sheet Flooring			Tan Weave-design Sheet Flooring			Green Floral-design Sheet Flooring			1'x1' Cellulose-based Ceiling Tile			Sheetrock with Joint Compound Ceiling System			<u>Type</u> S= Surface TSI= Thermal Systems Insulation M= Miscellaneous
						Ba			Tar															ials w	
	のための	EXACT	Floor			Floor			Floor			Under Carpet			Under Carpet			Ceiling			Ceiling			te mater	
LOCATION		ROOM	112A	112B	1128		112D		112C	Vestibule	RR		112A			1128			112B		112A	112A	112D	Red characters indicate materials with asbestos detected at 3%	
		FLOOR	First		First			First			First			First			First			First			Red charac	tly Damaged	
		SAMPLE #	112E-1	112E-2	112E-3	112E-4	112E-5	112E-6	112E-7	112E-8	112E-9	112E-10	112E-11	112E-12	112E-13	112E-14	112E-15	112E-16	112E-17	112E-18	112E-19	112E-20	112E-21	Note:	edican

PROJECT NAME: Sumter City/County Project: 112 E. Newberry Ave. ADDRESS: 112 E. Newberry Ave., Sumter, S.C.

DATE: 8/20/2024 INSPECTOR: Dalton Reames

		LOCATION	and the second							POT	ENTIAL	FOR FL	JTURE	DISTUI	POTENTIAL FOR FUTURE DISTURBANCE		
								VOdda	C	CONTACT		VIRE	VIRRATION		AIR FR	AIR FROSION	
SAMPLE #	FLOOR	ROOM	EXACT	DESCRIPTION	CONDITION	TYPE	F/NF	SF/LF	т	M	-	H	W	_	H	W	
112E-22																	
112E-23		Main Roof		Greenish Gray Roof Shingles	IJ	Σ	NF	1,250 SF	×			×			×		
112E-24																	
112E-25																	
112E-26		Main Roof		Roofing Felt	U	Σ	NF	1,250 SF	×			×			×		
112E-27																	
112E-28		East Chimney	h														
112E-29	Sot	Southeast Chimney	ney	Chimney Roof Flashing Sealant	ŋ	Σ	NF	36 LF	×			×			×		
112E-30	1	West Chimney	ey									I					
112E-31																	
112E-32	PL	Pump House Roof	loof	Pump House Green-colored Shingles	U	Σ	NF	40 SF	×			×			×		
112E-33																	
112E-34																	
112E-35	Exterior	Windo	Window Units	Exterior Window Glaze	U	Σ	NF	192 LF	×			×			×	_	
112E-36																	
																\vdash	
Note:	Blue char	acters indic	cate mater	Blue characters indicate material with asbestos detected at 0.12%, via TEM analysis.	%, via TEM an	alysis.											
<u>Condition</u>				<u>Type</u> s = surface		<u>E- E-</u>	<u>E/NF</u> c- crichlo			Potentia U- Uizh	ntial for I	Potential for Future Disturbance	Disturba	ince			
G= Damaged				TSI= Thermal Systems Insulation		NF=	r = ritable NF= Non Friable				п= півп M= Moderate						
SD= Significantly Damaged	ntly Damage(q		M= Miscellaneous						L= Low	3						

APPENDIX C

CHAIN OF CUSTODY & ANALYTICAL RESULTS



Attention: Ronny Lowder

Emerald, Inc.

PO Box 3050

2520 Tahoe Drive

Sumter, SC 29151

EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404796 Customer ID: EMER51 Customer PO: Project ID: Sumter County

 Phone:
 (803) 469-5454

 Fax:
 (803) 775-1970

 Received Date:
 08/21/2024 9:00 AM

 Analysis Date:
 08/28/2024

 Collected Date:

Project: Sumter County Project : 112 E. Newberry Ave. (Sumter County)

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

Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
Tan Carpet - Backing	Tan/Beige/Clear Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
Rose Carpet - Backing	Tan/Pink/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
Tan Square Sheet Flooring	Gray/Tan/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
Tan Weave-design Sheet Flooring	Brown/Tan/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
Green Floral Sheet Flooring	Tan/Black/Green Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
Main Roof Shingles	Gray/Black/Green Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
Main Roof Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
Chimney Sealant	Brown/Gray/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
Pump House Shingles	Gray/Black/Green Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
Window Glaze	Gray/Tan/Green Non-Fibrous Heterogeneous	99.29 Other	0.59 Fibrous_Other	0.12% Chrysotile
Wind	dow Glaze	Heterogeneous dow Glaze Gray/Tan/Green Non-Fibrous	Heterogeneous dow Glaze Gray/Tan/Green 99.29 Other Non-Fibrous	Heterogeneous dow Glaze Gray/Tan/Green 99.29 Other 0.59 Fibrous_Other Non-Fibrous Heterogeneous

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/29/2024 14:11:40

ASB_PLMEPANOB_0012_0002 Printed 8/29/2024 2:13:14PM

MSL	EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:	Ronny Lowder		(803) 469-5454
	Emerald, Inc.		(803) 775-1970
	2520 Tahoe Drive	Received Date:	08/21/2024 9:00 AM
	PO Box 3050	Analysis Date:	08/28/2024
	Sumter, SC 29151	Collected Date:	
Project:	Sumter County Project : 112 E. Newberry Ave. (Sumter County)		

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 (10)

Stephen Bennett, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/29/2024 14:11:40

ASB_PLMEPANOB_0012_0002 Printed 8/29/2024 2:13:14PM

EMSL	EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:	Ronny Lowder Emerald, Inc.	Phone: Fax:	
	2520 Tahoe Drive PO Box 3050 Sumter, SC 29151	Analysis Date: Collected Date:	
Project:	Sumter County Project : 112 E. Newberry Ave. (Sumter County)		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes	tos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
112E-1	Tan Carpet - Backing	Tan/Beige/Clear Fibrous	<1% Cellulose 90% Synthetic	10% Non-fibrous (Other)	None Detected
22404796-0001		Heterogeneous			None Detected
112E-2	Tan Carpet - Backing	Beige Fibrous Homogeneous	90% Synthetic	10% Non-fibrous (Other)	NONE DELECTED
022404796-0002	Deep Correct	Tan/Yellow/Pink	95% Cellulose	4% Non-fibrous (Other)	None Detected
112E-4 022404796-0003	Rose Carpet - Backing	Fibrous Heterogeneous	1% Synthetic		
	Rose Carpet -	Tan/Beige	95% Cellulose	4% Non-fibrous (Other)	None Detected
112E-5 022404796-0004	Backing	Fibrous Homogeneous	1% Synthetic		
	Tan Square Sheet	Gray/Tan/Beige	30% Cellulose	69% Non-fibrous (Other)	None Detected
112E-7 022404796-0005	Flooring	Fibrous Heterogeneous	1% Glass		
112E-8	Tan Square Sheet Flooring	Gray Fibrous	80% Cellulose 5% Glass	15% Non-fibrous (Other)	None Detected
022404796-0006		Homogeneous			
Backing present only					
112E-10	Tan Weave-design Sheet Flooring	Brown/Tan/Black Fibrous	60% Cellulose	40% Non-fibrous (Other)	None Detected
022404796-0007		Heterogeneous			
112E-11	Tan Weave-design Sheet Flooring	Brown/Black/Yellow Fibrous	55% Cellulose	45% Non-fibrous (Other)	None Detected
022404796-0008		Homogeneous			
112E-13	Green Floral Sheet Flooring	Black/Yellow/Green Fibrous	45% Cellulose	55% Non-fibrous (Other)	None Detected
022404796-0009		Heterogeneous			N. Datadad
112E-14	Green Floral Sheet Flooring	Various/Black/Gree n	40% Cellulose	60% Non-fibrous (Other)	None Detected
022404796-0010		Fibrous Homogeneous			
112E-16	Fiberboard Ceiling Tile	Brown/White Fibrous	97% Cellulose	3% Non-fibrous (Other)	None Detected
022404796-0011		Homogeneous			
112 E-1 7	Fiberboard Ceiling Tile	Brown/White Fibrous	97% Cellulose	3% Non-fibrous (Other)	None Detected
022404796-0012		Homogeneous			
112E-18	Fiberboard Ceiling Tile	Brown/White Fibrous	97% Cellulose	3% Non-fibrous (Other)	None Detected
022404796-0013		Homogeneous			
112E-19-Joint Compound	Sheetrock System	Tan Non-Fibrous	1% Cellulose	20% Ca Carbonate 76% Non-fibrous (Other)	3% Chrysotile
		Homogeneous			
022404796-0014	Obersteende Oursterre	Poino	100% Cellulose		None Detected
112E-19-Tape	Sheetrock System	Beige Fibrous Homogeneous			

Initial report from: 08/26/2024 17:19:44



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284

Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404796 Customer ID: EMER51 Customer PO:

Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos	2	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
12E-19-Sheetrock	Sheetrock System	Brown/Gray/Tan Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
022404796-0014B		Heterogeneous			
112E-20-Joint	Sheetrock System				Positive Stop (Not Analyzed)
Compound					
022404796-0015					
112E-20-Tape	Sheetrock System	Beige Fibrous	100% Cellulose		None Detected
022404796-0015A		Homogeneous			
112E-20-Sheetrock	Sheetrock System	Brown/Gray/Tan Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
022404796-0015B		Heterogeneous			Durative Step (Mat Amplymod)
112E-21-Joint Compound	Sheetrock System				Positive Stop (Not Analyzed)
022404796-0016					
112E-21-Tape	Sheetrock System	Beige	100% Cellulose		None Detected
022404796-0016A		Fibrous Homogeneous			
112E-21-Sheetrock	Sheetrock System	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
022404796-0016B		Heterogeneous			
112E-22	Main Roof Shingles	Gray/Black/Green Fibrous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
022404796-0017		Heterogeneous			News Datastad
112E-23	Main Roof Shingles	Gray/Black/Green Fibrous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
022404796-0018		Homogeneous	000/ 0 # 1	400/ Nen Shreun (Othor)	None Detected
112E-25 022404796-0019	Main Roof Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	NOTE Delected
· · · · · · · · · · · · · · · · · · ·	Main Roof Felt	Black	70% Cellulose	30% Non-fibrous (Other)	None Detected
112E-26 022404796-0020	Main Roor Feit	Fibrous Homogeneous	1018 Centrose		
112E-28	Chimney Sealant	Brown/Black	8% Cellulose	92% Non-fibrous (Other)	None Detected
022404796-0021	Chilling Octuarie	Fibrous Heterogeneous			
112E-29	Chimney Sealant	Brown/Black	8% Cellulose	92% Non-fibrous (Other)	None Detected
022404796-0022		Fibrous Homogeneous			
112E-31	Pump House	White/Black/Green	<1% Cellulose	95% Non-fibrous (Other)	None Detected
022404796-0023	Shingles	Fibrous Heterogeneous	5% Glass		
112E-32	Pump House	White/Black/Green	5% Glass	95% Non-fibrous (Other)	None Detected
022404796-0024	Shingles	Fibrous Heterogeneous			
112E-34	Window Glaze	Gray/Tan/Green Non-Fibrous	<1% Cellulose <1% Fibrous (Other)	10% Ca Carbonate 90% Non-fibrous (Other)	<1% Chrysotile
022404796-0025		Homogeneous			
112E-35	Window Glaze	Gray/Green/Beige Non-Fibrous	<1% Cellulose 1% Fibrous (Other)	10% Ca Carbonate 89% Non-fibrous (Other)	<1% Chrysotile
022404796-0026		Homogeneous			



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404796 Customer ID: EMER51 Customer PO: Project ID: Sumter County

Analyst(s)

Nicole MacDowell (13) Scott Combs (17)

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, Virginia 3333-000228, West Virginia LT000321

Initial report from: 08/26/2024 17:19:44



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

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P'IONE FAX:

Company Name : Emer	ald. Inc.		EMSL Custo	omer ID:		
Street: P.O. Box 3050			City: Sumte		State/Pro	vince: SC
Zip/Postal Code: 29151		Country: US		: 803-469-54		3-469-5465
Report To (Name): Ronn	y Lowder		Please Prov	ide Results:	🗌 Fax 📝 Emai	il
Email Address: rlowder		nc-us.com	Purchase O	rder:		
Project Name/Number: S	Sumter County F	Project: 112 E. Newberry Ave.	EMSL Proje	ct ID (Internal	Use Only).	aldertiel/Tex Exempt
U.S. State Samples Take	n: sc EMSL-B	ill to: 🔽 Same 🔲 Different -				esidential/Tax Exempt
		Third Party Billing requires writ	ten authorization	n from third part		
☐ 3 Hour ☐ 6	Hour	Turnaround Time (TAT)	Options* – P		Hour 1 We	ek 2 Week
*For TEM Air 3 hr through 6 h	r, please call ah	read to schedule. "There is a premiur	n charge for 3 Ho	UT TEM AHERA	or EPA Level II TAT. Y	ou will be asked to sign an
authorization form	the second se	TEM – Air 4-4.5hr TAT		TEM- Dust	is located in the Analyti	
from NY					ACTN D 5755	
		AHERA 40 CFR, Part 76	13		- ASTM D 5755 STM D6480	
W/ OSHA 8hr. TWA	.14)	NIOSH 7402		10 .	onication (EPA 600	/J-93/167)
PLM - Bulk (reporting lim				Soil/Rock/		
PLM EPA NOB (<1%)	- (TEM - Bulk		PLM EP.	A 600/R-93/116 with	n milling prep (<1%)
Point Count						n milling prep (<0.25%)
400 (<0.25%) 1000		NYS NOB 198.4 (non-fna	able-NY)			h milling prep (<0.1%)
Point Count w/Gravimetric		Chatfield SOP	600 sec 2 5		alitative via Filtration alitative via Drop Mi	
NYS 198.1 (friable in f		TEM - Water: EPA 100.2	000 000. 2.0	Cincinna	ti Method EPA 600	/R-04/004 - PLM/TEM
NYS 198.6 NOB (non-		Fibers >10µm Waste	Drinking	(BC only) Other:		
NYS 198.8 SOF-V	Inacie-INT)					
NIOSH 9002 (<1%)		All Fiber Sizes Waste	Drinking			
Check For Positive St	op – Clearly	Identify Homogenous Grou	p Filter	Pore Size (A	ir Samples): 🔲0).8µm0.45µm
Samplers Name: Dali				s Signature:	Dallot	(a)
Samplers Name: Dan	I		Oampier	s orginature.	Volume/Area (Air	r) Date/Time
Sample #		Sample Descript	ion		HA # (Bulk)	Sampled
	Descript	tions on Following Pag	е			8/20/2024
					1.100	
		4405 20				
Client Sample # (s): 11	2E-1 thru	112E-36 -	obi		Total # of Samples	000-
Relinquished (Client):	Alle	Date	: O(d))	12024	Ti	me: 0900
Received (Lab);	Swe	t Date	:8.21	91_	TI	me: Ycu
Comments/Special Instr	uctions:					
Note: Sumter County Project	1000					
ACT ACT	479	5277400	2	11 - N		
ofunk yuu	0.8 (>> Page 1 of	pages			
Controlled Document - Asbestos COC	- R10 - 05/09/2016					1
		010				4
		Page 1 Of	2			

Ungle



CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

* EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284

Client Sample # (s)	112E-1 thru 112E-36	Total Samples #:	36	Phone: (336) 992-1025
Relinguished:	Date:	Time.		Fax: (336) 992-4175
Received:	Date:	Time		http://www.emsl.com
Relinquished:	Date:	Time.		
Received:	Date:	Time:		

	SAMPLE DESCRIPTION	VOLUME (if applicable)
112E-1	Tan Carpet - Backing	
112E-2	11	
	н	
112E-4	Rose Carpet - Backing	
112E-5	10	
	W	
112E-7	Tan Square Sheet Flooring	
112E-8		
DEC.S.		
112E-10	Tan Weave-design Sheet Flooring	
112E-11	N	
H2ESF	И	
112E-13	Green Floral Sheet Flooring	
112E-14		
	17	
112E-16	Fiberboard Ceiling Tile	
112E-17	11	
112E-18	••••••••••••••••••••••••••••••••••••••	
112E-19	Sheetrock System	
112E-20	> Serrifice	All lapers
112E-21	")	
112E-22	Main Roof Shingles	
112E-23		
112E-25		
112E-25	Main Roof Felt	
112E-26		
112E-28	Chimney Sealant	
112E-29		
112E-31	Pump House Shingles	
112E-32	ч 	
112E-34	Window Glaze	
112E-35		
	n	
		Charles and Charle
·····		

2042

APPENDIX D

BUILDING INSPECTOR LICENSES

SCDHEC ISSUED Asbestos ID Card

RONNY LOWDER



CONSULTMP	ASB-32201	Expiration Date: 09/18/24
CONSULTBI	BI-01497	09/18/24
SUPERAHERA	SA-00715	09/17/24

.

1



John Dalton Reames, Jr.



AIRSAMPLER CONSULTBI CONSULTPD

Expiration Date: 11/07/24 11/06/24 AS-00287 BI-00945 08/07/25 PD-00200 SUPERAHERA SA-01252 11/07/24

APPENDIX E

SITE PHOTOGRAPHS



Photo #4 View Depicting a Divided Light-type Window Sash with Glaze (<1% Asbestos)

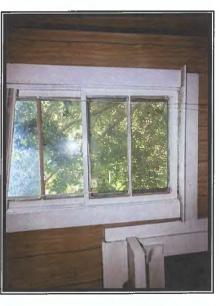


Photo #3 No Asbestos Detected in Pump House Roofing Materials





Photo #2 No Asbestos Detected in Chimney Material or Roof Coverings of the Residential Bldg.

Photo #1 Southeast-facing View Depicting the Dense Vegetation around the Structure



Sumter City/County Project: 112 E. Newberry Ave., Sumter, S.C.

Photo #8 View Depicting OSB-type Ceiling Panels in Room 112C



Photo #6 Asbestos-containing Sheetrock Ceiling in Room 112D



Photo #7 No Asbestos Detected in Cellulose-based Ceiling Tiles in Room 112B











Photo #9 No Asbestos Detected in Tan Weave-design Sheet Flooring under Carpet



Photo #11 No Asbestos Detected in Tan Square-design Sheet Flooring



Photo #10 No Asbestos Detected in Green Floral-design Sheet Flooring under Carpet

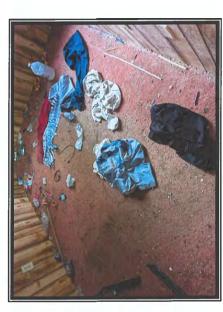


Photo #12 No Asbestos Detected in Carpet Materials

Sumter City/County Project: 112 E. Newberry Ave., Sumter, S.C.



2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE: www.emeraldinc-us.com TELEPHONE (803) 469-5454 FAX (803) 469-5465

ASBESTOS SURVEY REGARDING SUMTER CITY/COUNTY PROJECT DILAPIDATED RESIDENTIAL BUILDING 308 TURKEY ROAD SUMTER, SOUTH CAROLINA



Prepared for:

City of Sumter P.O. Box 1449 Sumter, South Carolina 29151

Prepared by:

Emerald, Inc. P.O. Box 3050 Sumter, South Carolina 29151

Date of Inspection: August 21, 2024 Date of Report: August 29, 2024

FOREWORD

This report was prepared by Emerald, Inc. of Sumter, South Carolina, for the City of Sumter, regarding the dilapidated residential building located at 308 Turkey Rd. in Sumter, S.C. The contents of this report are confidential and intended for the use of the client only.

J. Dalton Reames, Jr., S.C. Licensed Building Inspector, conducted the inspection, and Ronny L. Lowder, S.C. Licensed Building Inspector and Management Planner, prepared this report. Any questions or comments concerning this report should be directed to Ronny L. Lowder at either (803) 469-5454 or via email at rlowder@emeraldincus.com.

SC Licensed Building Inspector License Number BI-00945 Expiration Date: 11/06/24

SC Licensed AHERA Supervisor License Number SA-01252 Expiration Date: 11/07/24

SC Licensed Air Sampler License Number AS-00287 Expiration Date: 11/07/24

SC Licensed Project Designer License Number PD-00200 Expiration Date: 08/07/25

owder, CHMM Ronny

SC Licensed Building Inspector License Number BI-01497 Expiration Date: 09/18/24

SC Licensed AHERA Supervisor License Number SA-00715 Expiration Date: 09/17/24

SC Licensed Mgmt Planner License Number ASB-32201 Expiration Date: 09/18/24

TABLE OF CONTENTS

1.0	INTRODUCTION AND OBJECTIVE	1
2.0	SURVEY METHODOLOGY	1
3.0	HAZARD ASSESSMENT FACTORS (ASBESTOS)	3
3.1	Homogeneous Areas	3
3.2	Hazard Factors	3
4.0	ANALYSIS AND RESULTS	3
4.1	Laboratory Analysis	3
4.2	Survey Results	4
5.0	CONCLUSIONS AND RECOMMENDATIONS	6
6.0	ASSUMPTIONS AND LIMITATIONS	7
7.0	APPENDICES	8

1.0 INTRODUCTION AND OBJECTIVE

Emerald, Inc. was requested to conduct an Asbestos Survey of the vacant residential structure located at 308 Turkey Rd. in Sumter, S.C., to identify the presence of any asbestos-containing materials (ACM), prior to demolition activities. The inspection was authorized by Mr. John Macloskie, Codes Director, with the City of Sumter. The inspection included identification and assessment of the condition of suspect asbestos-containing materials, either friable or non-friable, on the interior and exterior portions of the structure.

This report is a compilation of the inspection and its results.

2.0 SURVEY METHODOLOGY

On August 21, 2024, Emerald, Inc. conducted an Asbestos Survey on the building at the stated address. J. Dalton Reames, Jr., South Carolina Licensed Building Inspector, conducted the inspection.

Estimated to have been constructed circa 1966 for residential purposes, the singlestory residential structure contains approximately 836 square feet of interior space. The structure is dilapidated and has extensive fire damage to structural components at the north-northwest sections of the building. The basic building construction is as follows:

- Wood-framed Walls Built over an Earthen Crawl Space
 - Aluminum Exterior Cladding Covers Fiberboard Wall Panels and Cellulose-based Sheathing Boards
- Wooden A-framed Roof Structure
 - Covered with Shingles and Associated Felt
- Uncovered Hardwood Flooring
- Wood-framed Interior Walls Covered with Sheetrock

- Wood Paneling Covers Some Sheetrock Sections
- Wooden Ceiling Joists Covered with Sheetrock
 - Spray-applied Texture Surface over Sheetrock Ceilings
- HVAC Climate Control
 - o Ground-mounted Compressor
 - Crawl Space-staged Ductwork Leads to Floor Vents
- Collapsed, Wooden Carport Structure is Covered with Shingle Rolls
- No Suspect Materials Associated with Standalone Metal Storage Shed

Future use of the property, following demolition activities, is unknown.

The survey included a visual inspection to identify the presence of material suspected of containing asbestos. This identification was based on the experience and training of the inspector. A total of fifty-three (53) samples were collected during the survey for laboratory analysis, based upon the required EPA and SC DHEC sampling matrix. Samples were placed in individual containers, labeled and numbered according to the sampling schemes (308-1 through 308-53). Per SC DHEC Asbestos Regulations, the independent laboratory is required to sample all layers of each sample. As a result, forty-nine (49) samples were analyzed by the lab, via Polarized Light Microscopy (PLM) while utilizing Positive Stop, and thirteen (13) samples were analyzed, via Transmission Electron Microscopy (TEM). Appendix B contains the Asbestos Survey Log kept during the inspection which identifies the samples collected by sample number, sample type, location and condition assessment, along with any comments. The samples were shipped to EMSL Analytical, Inc. in Kernersville, North Carolina for analysis. Analysis and results are discussed in Section 4.0.

3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)

3.1 Homogeneous Areas

The sample collection was typically conducted by homogeneous materials, i.e., any materials of the same type regarding uniformity throughout in structure or make-up and appearance (color, texture, and/or date of construction/application). Homogeneous materials can be further classified as surfacing materials, thermal system insulation and miscellaneous materials. Miscellaneous materials include ceiling tiles, floor tiles, roofing, caulking, and glazing, etc.

3.2 Hazard Factors

The samples of suspect material collected were classified as either friable (F) or non-friable (NF). Friable means the material can be crumbled, pulverized, or reduced to powder by ordinary hand pressure. Materials initially determined to be non-friable can receive a reclassification of friable if the material is damaged, thereby providing an avenue for release of asbestos fibers. Friable asbestos-containing material (ACM) has been determined by EPA and OSHA to be a greater hazard (health risk) than non-friable ACM. In assessing the fiber release potential, the current condition of the suspect materials sampled was noted in the Asbestos Survey Log (Appendix B). The condition was denoted as good, damaged, or significantly damaged. Current condition is a factor used to assess the potential for fiber release. Other factors used to determine potential fiber release include air movement, surface type, and area activity as related to human occupancy.

4.0 ANALYSIS AND RESULTS

4.1 Laboratory Analysis

Bulk samples were analyzed by EMSL Analytical, Inc. using Polarized Light

Microscopy (PLM) with Dispersion Staining Techniques (EPA Bulk Analysis Method 600/R-93/116). This method utilizes part of the bulk sample which is mounted on a slide and exposed to an oil of specific refractive index. This prepared slide is then subjected to a variety of optical tests.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of asbestos content are then determined through visual estimating. Although this is an estimate, any material containing greater than one percent of any type of asbestos is classified as ACM by the EPA. Any material classified as ACM must be handled accordingly.

Under the revised South Carolina Asbestos Regulation 61-86.1 effective June 27, 2008, any analysis of non-friable organically bound (NOB) material that is found to be negative via PLM testing, must have confirmation testing via Transmission Electron Microscopy (TEM) on one sample from each media; therefore, thirteen (13) samples were analyzed by the lab, via TEM testing.

4.2 Survey Results

Samples were collected and tested from various suspect materials, as referenced in Appendix B, Asbestos Sample Log. Samples of main house roofing shingles and felt, woodshed roofing shingles and felt, window glaze, tan-pebble sheet flooring, tan hallway sheet flooring, restroom sheet flooring, backing of dark rose-colored carpet, backing of light rose-colored carpet, 12 x 12 flooring squares and tan square-design sheet flooring were verified as negative, via TEM analysis.

Appendix C contains a copy of the analytical results from the laboratory. of the analytical results from the laboratory.

TABLE 1 DILAPIDATED RESIDENTIAL STRUCTURE 308 TURKEY ROAD SUMTER, SOUTH CAROLINA REGULATED ASBESTOS-CONTAINING MATERIALS (RACM)

Description	Location	Category (F/NF)	Approx. SF/LF
Sheetrock with Joint Compound Ceiling and Wall System	Ceilings and Walls throughout the Structure	F – Significantly Damaged Condition	3,300 SF

Note: F - Friable

NF - Non-Friable

EMERALD, INC., CONDUCTED THE SURVEY TO THE BEST OF ITS ABILITY, ADHERING TO INDUSTRY STANDARDS. THE QUANTITIES PROVIDED IN THIS REPORT ARE APPROXIMATE AND SHALL SERVE AS A BASIS FOR ABATEMENT BID SUBMITTALS. IF ADDITIONAL SUSPECT MATERIALS ARE IDENTIFIED DURING RENOVATION OR DEMOLITION ACTIVITY, THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE BUILDING OWNER'S REPRESENTATIVE.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the inspection of August 21, 2024, and the analytical results from the samples collected and tested by an independent laboratory, the dilapidated residential building located at 308 Turkey Rd. in Sumter, S.C., does contain friable RACM, as per Table 1. Such materials will have to be removed and properly disposed by a S.C. licensed abatement contractor per SC DHEC Bureau of Air Quality Asbestos Regulation 61-86.1 effective May 27, 2011, prior to demolition activities involving the asbestos-containing materials.

6.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection of August 21, 2024. Emerald, Inc., their representative and this report make no representation and/or assumptions as to past conditions or future occurrences. The information, conclusions and recommendations provided herein do not constitute as legal or medical advice. It is further understood that Emerald, Inc. makes no representations or warranties of any kind. Nor are such representations or warranties to be implied with respect to the data furnished. Emerald, Inc. assumes no responsibility with respect to the customers and its employees use thereof.

The information provided herein applies only to the subject property as it existed during Emerald, Inc.'s site visit. If this site's use and/or conditions change, information, observations and recommendations found herein would no longer apply. This report is intended to be used in its entirety. No excerpts may be taken to typify the findings of this survey. Emerald, Inc. shall not be liable for any special, consequential and/or exemplary damages resulting, in whole or in part, from the customer's use of the data provided. It was not within the scope of this investigation to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Our selection of sample locations and frequency is based upon our observations and the assumption that like materials in the same are homogeneous.

Emerald, Inc. conducted the survey to the best of its ability using the standards of the industry. In the event additional materials are found to contain asbestos, Emerald, Inc. shall not be liable for any failure of such findings during its initial survey.

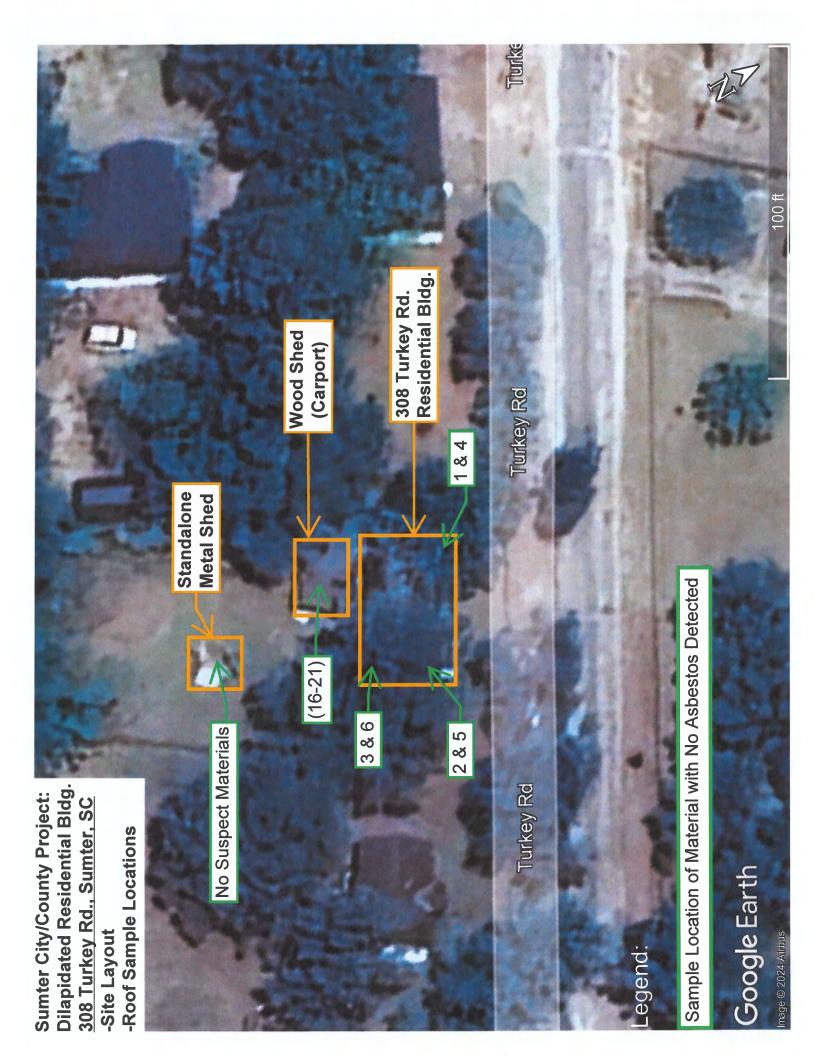
7

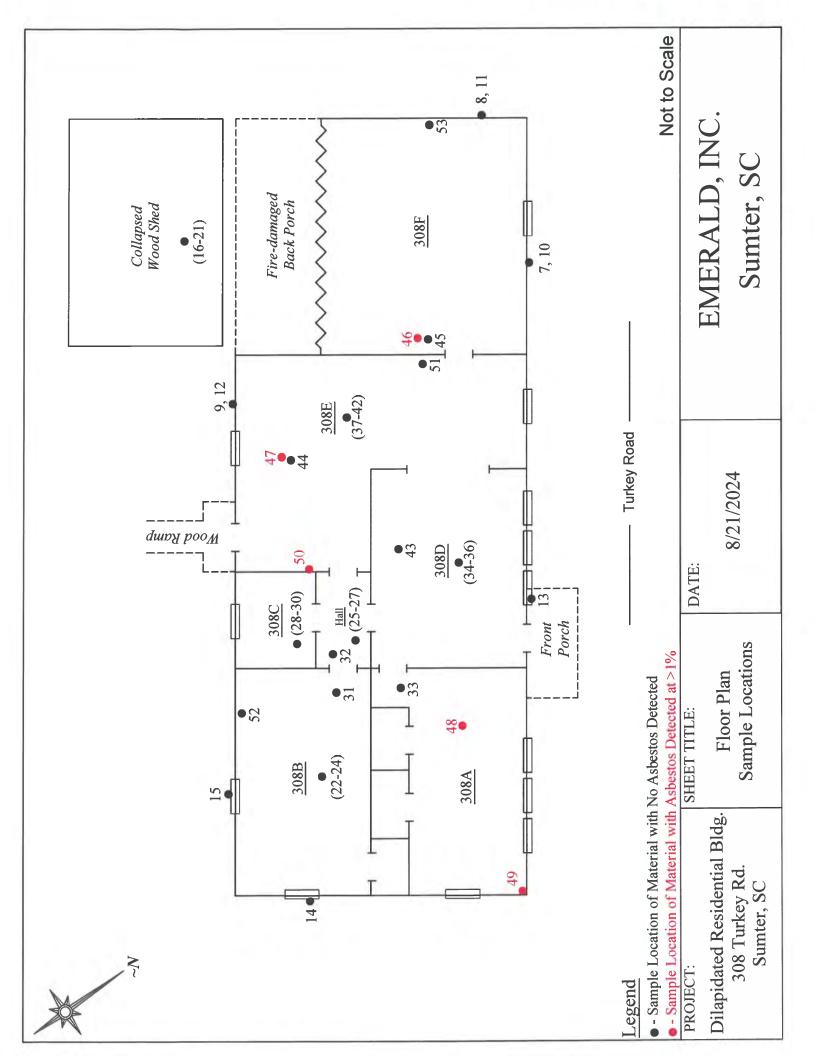
7.0 APPENDICES

APPENDIX A.Site PlanAPPENDIX B.Asbestos Sample LogAPPENDIX C.Chain of Custody & Analytical ResultsAPPENDIX D.Building Inspector LicensesAPPENDIX E.Site Photographs

APPENDIX A

SITE PLAN





APPENDIX B

ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 308 Turkey Rd. ADDRESS: 308 Turkey Rd., Sumter, S.C.

DATE: 8/21/2024 INSPECTOR: Dalton Reames

POTENTIAL FOR FUTURE DISTURBANCE	APPROX. CONTACT VIBRATION AIR EROSION	TYPE F/NF SF/LF H M L H M L H M L		M NF 1,120SF X X X X			M NF 1,120SF X X X X			M F 1,250 SF X X X X			M F 1,250 SF X X X			M NF 312 LF X X X X			M NF 150 SF X X X			M NF 150 SF X X X		E/NE F= Friable H= High	
FOR FUT	VIBRAT	100		×			×			×			×			×			×			×		Future Dist	
TENTIAL	E	-																						ential for ligh	
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		т		×			×			×			×			×			×			×			
	APPROX.	SF/LF		1,120 SF			1,120 SF			1,250 SF			1,250 SF			312 LF			150 SF			150 SF			
		F/NF		NF			NF			ц.			ш			NF			NF			NF		E riable	
		TYPE		Σ			Σ			Σ			Σ			Σ			Σ			Σ		F= F	
		CONDITION		9			IJ			ŋ			ŋ			U			U			IJ			
		DESCRIPTION		Reddish Gray Roof Shingles			Roofing Felt			Exterior Fiberboard Wall Panels			Exterior Wall Sheathing Boards			Exterior Window Glaze			Wood Shed Gray Roof Shingle Rolls			Wood Shed Roofing Felt		<u>Type</u> S= Surface	
		EXACT		Jf			of			uminum ding	0		board Wall els			v Units			Roof			Roof			
LOCATION	LOCATION		ROOM Main House Roof				Main House Roof			Behind Aluminum Cladding			Behind Fiberboard Wall Panels			Window Units			Shed			Shed			
		FLOOR		Ma			Ma			Exterior Walls			Exterior Walls			Walls			Wood Shed			Wood Shed			
		SAMPLE #	308-1	308-2	308-3	308-4	308-5	308-6	308-7	308-8	308-9	308-10	308-11	308-12	308-13	308-14	308-15	308-16	308-17	308-18	308-19	308-20	308-21	<u>Condition</u> G= Good	

Page 1 of 3

> PROJECT NAME: Sumter City/County Project: 308 Turkey Rd. ADDRESS: 308 Turkey Rd., Sumter, S.C.

DATE: <u>8/21/2024</u> INSPECTOR: <u>Dalton Reames</u>

ROOM EXACT 308B Under 308B Under 308B Under Hall Under Hall Carpet 308B S38B 308B Floor 308B Floor 308D Floor 308E Top Laver 308E of Flooring B of Flooring B Laver of Flooring Tar	100	LOCATION	TION								POT	FENTIA	L FOR I	FUTUR	E DISTI	POTENTIAL FOR FUTURE DISTURBANCE	B	
ROOM EXACT DESCRIPTION CONDITION TYPE F/NF SF/LF H 308 Carpet Tan-Febble-design with Color G M NF 365F X Hall Under Tan-colored Hallway Sheet Flooring G M NF 365F X Hall Under Tan-colored Hallway Sheet G M NF 365F X 3080 Floor Restroom Wood-design Sheet G M NF 365F X 3080 Floor Backing of Dark Rose-colored G M NF 365F X 3080 Floor Backing of Light Rose-colored G M NF 305F X 3081 Floor Backing of Light Rose-colored G M NF 305F X 3082 Floor Backing of Light Rose-colored G M NF 3235F X 3081 Floor Backing of Light Rose-colored G M NF									APPROX.	0	ONTAC		VIE	BRATIO	N	AIR	AIR EROSION	N
308b Under Carpet Tan Pebble-design with Color G M NF 96.5F X Hall Under Splash Sheet Flooring G M NF 96.5F X Hall Under Tan-colored Hallway Sheet G M NF 20.5F X 308c Floor Restroom Wood-design Sheet G M NF 36.5F X 308c Floor Backing of Dark Rose-colored G M NF 36.5F X 308b Floor Backing of Dark Rose-colored G M NF 30.5F X 308b Floor Backing of Dark Rose-colored G M NF 132.5F X 308b Floor Carpet G M NF 132.5F X <th></th> <th></th> <th>WC</th> <th>EXACT</th> <th>DESCRIPTION</th> <th>CONDITION</th> <th>TYPE</th> <th>F/NF</th> <th>SF/LF</th> <th>н</th> <th>Σ</th> <th>-</th> <th>н</th> <th>W</th> <th>-</th> <th>н</th> <th>Σ</th> <th>-</th>			WC	EXACT	DESCRIPTION	CONDITION	TYPE	F/NF	SF/LF	н	Σ	-	н	W	-	н	Σ	-
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Hall Under Carpet Tan-colored Halway Sheet G M NF 20 SF X 308C Floor Restroom Wood-design Sheet G M NF 20 SF X 308L Floor Restroom Wood-design Sheet G M NF 36 SF X 308L Floor Backing of Light Rose-colored G M NF 36 SF X 308L Floor Backing of Light Rose-colored G M NF 30 SF X 308L Floor Backing of Light Rose-colored G M NF 132 SF X 308L Floor Carpet G M NF 132 SF X 308L Floor Backing of Light Rose-colored G M NF 132 SF X 308L Floor Backing of Light Rose-colored G M NF 214 SF X 308L Flooring Go filooring G M NF 214 SF X 308L Flooring Go filooring G M	ىپە		8B	Carpet	I an Pebble-design with Color Splash Sheet Flooring	IJ	Σ	NF	96 SF	×			×			×		
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Hall Under Carpet Tan-colored Halway Sheet G M NF 20 SF X 308C Floor Restroom Wood-design Sheet G M NF 36 SF X 308L Floor Restroom Wood-design Sheet G M NF 36 SF X 308L Floor Backing of Dark Rose-colored G M NF 30 SF X 308L Floor Backing of Light Rose-colored G M NF 300 SF X 308L Floor Backing of Light Rose-colored G M NF 132 SF X 308L Top Layer Germetric Wood-design Flooring G M NF 214 SF X 308L Layer of Flooring Tan Squares Squares G M NF 214 SF X 308L Layer of Flooring Tan Squares G M NF 214 SF X																		
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308A Floor Backing of Light Rose-colored G M NF 132 SF X 308D Floor Backing of Light Rose-colored G M NF 132 SF X 308E Top Layer Geometric Wood-design Flooring G M NF 132 SF X 308E Top Layer Geometric Wood-design Flooring G M NF 214 SF X 308E Layer of Tan Squares Squares G M NF 214 SF X 308E Layer of Tan Square-design Sheet Flooring G M NF 214 SF X 5 Flooring Bottom G M NF 214 SF X M 308E Layer of Tan Square-design Sheet Flooring G M NF 214 SF X M Se Surface Flooring G M NF 214 SF X M Bottom Bottom G M NF 214 SF X M Se Surface Flooring G M	rst			Floor	Backing of Dark Rose-colored Carpet	ŋ	Σ	NF	300 SF	×			×			×		
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Flooring <u>Type</u> S= Surface TSI= Thermal Systems Insulation M= Miscellaneous	irst			Layer of	Tan Square-design Sheet Flooring	U	Σ	NF	214 SF	×			×			×		
<u>Type</u> S= Surface TSI= Thermal Systems Insulation M= Miscellaneous				Flooring														
<u>Type</u> S= Surface TSI= Thermal Systems Insulation M= Miscellaneous																		
TSI= Thermal Systems Insulation NF= Non Friable M= Miscellaneous					<u>Type</u> S= Surface		<u>F= Fi</u>	E riable			Pote H= H	ntial for igh	Future	: Disturk	bance			
	ž	Iged			al		NF=	Non Friabl	a		M= N L= Lo	Joderat	Ð					

> PROJECT NAME: Sumter City/County Project: 308 Turkey Rd. ADDRESS: <u>308 Turkey Rd</u>, Sumter, S.C.

DATE: <u>8/21/2024</u> INSPECTOR: <u>Dalton Reames</u>

CE	AIR EROSION	MLL																		
POTENTIAL FOR FUTURE DISTURBANCE	AIR	н		×	L		I	×				×	I							
RE DIST	NO	l																		rbance
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POTENT	TACT	1 1																		<u>Potential for Future Disturbance</u> H= High M= Moderate L= Low
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	×.		\vdash		_															
	APPROX.	SF/LF		836 SF				3,300 SF				75 LF								U
		F/NF		ш				u.				NF								<u>E/NF</u> F= Friable NF= Non Friable
		TYPE		S				S				Σ							Ė	
		CONDITION		SD				SD				U							nd wall syste	
		DESCRIPTION		Spray-applied Ceiling Texture				Sheetrock Ceiling and Wall System				HVAC Duct Tape							Asbestos detected at 3% in joint compound of sheetrock ceiling and wall system	<u>Type</u> S= Surface TSI= Thermal Systems Insulation M= Miscellaneous
		EXACT		Ceiling			Ceiling		lle/W			ts in Crawl							3% in joint	
LOCATION	ALC: NO S	ROOM	308D	308E	308F	308F	308E	308A	308A	308E		ers and Duct Space	-						stected at	
		FLOOR		First				First				Floor Registers and Ducts in Crawl Space							Asbestos de	ly Damaged
		SAMPLE #	308-43	308-44	308-45	308-46	308-47	308-48	308-49	308-50	308-51	308-52	308-53						Note: A	ed ican

APPENDIX C

CHAIN OF CUSTODY & ANALYTICAL RESULTS

EMSL

Attention: Ronny Lowder

Emerald, Inc.

PO Box 3050

2520 Tahoe Drive

Sumter, SC 29151

EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404857 Customer ID: EMER51 Customer PO: Project ID: Sumter County

 Phone:
 (803) 469-5454

 Fax:
 (803) 775-1970

 Received Date:
 08/22/2024 10:10 AM

 Analysis Date:
 08/28/2024

 Collected Date:

Project: Sumter County Project : 308 Turkey Rd. (Sumter County)

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
308-3 022404857-0042	Main House Roof Shingles	Gray/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
308-6 022404857-0043	Main House Roofing Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
308-15 022404857-0044	Window Glaze	Gray/Tan Non-Fibrous Homogeneous	100.0 Other	<0.1 Fibrous_Other	No Asbestos Detected
			Talc fibers present.		
308-18 022404857-0045	Wood Shed Roof Shingles	Gray/Tan/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
308-21 022404857-0046	Wood Shed Roofing Felt	Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
308-24 022404857-0047	Tan Pepple Sheet Flooring	Tan/Black/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
308-27 022404857-0048	Tan Hallway Sheet Flooring	Gray/Tan Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
308-30 022404857-0049	Restroom Sheet Flooring	Brown/White/Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
308-33 022404857-0050	Dark Rose Carpet - Backing	Pink/Beige/Clear Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
308-36 022404857-0051	Light Rose Carpet - Backing	White/Pink/Clear Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
308-39 022404857-0052	12x12 Flooring Square	Brown/Gray/Rust Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
308-42-Flooring 022404857-0053	Tan Square Sheet Flooring	Gray/Tan Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/29/2024 08:39:13

ASB_PLMEPANOB_0012_0002 Printed 8/29/2024 8:39:17AM



Attention: Ronny Lowder

Emerald, Inc. 2520 Tahoe Drive PO Box 3050 Sumter, SC 29151

EMSL Analytical, Inc.

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

Project: Sumter County Project : 308 Turkey Rd. (Sumter County)

EMSL Order: 022404857 Customer ID: EMER51 Customer PO: Project ID: Sumter County

Phone:	(803) 469-5454
Fax:	(803) 775-1970
Received Date:	08/22/2024 10:10 AM
Analysis Date:	08/28/2024
Collected Date:	

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
308-42-Leveler / Mastic 022404857-0054	Tan Square Sheet Flooring	Tan/White/Yellow Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Stephen Bennett (13)

the

Stephen Bennett, Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/29/2024 08:39:13

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EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@ernsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention: Ronny Lowder Emerald, Inc. 2520 Tahoe Drive PO Box 3050 Sumter, SC 29151 Project: Sumter County Project : 308 Turkey Rd. (Sumter County)	Received Date:	(803) 469-5454 (803) 775-1970 08/22/2024 10:10 AM 08/26/2024 - 08/27/2024

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
308-1	Main House Roof Shingles	Tan/Black Fibrous Heterogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
308-2	Main House Roof Shingles	Gray/Tan/Black Fibrous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
022404857-0002		Heterogeneous			None Detected
308-4	Main House Roofing Felt	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
022404857-0003	Multi II una Diadan		80% Cellulose	20% Non-fibrous (Other)	None Detected
308-5 022404857-0004	Main House Roofing Felt	Black Fibrous Homogeneous	80% Cellulose	20 % Non-horous (Other)	
· · · · · · · · · · · · · · · · · · ·	Fiberboard Wall	Brown/Gray/White	99% Cellulose	1% Non-fibrous (Other)	None Detected
308-7	Panles	Fibrous Homogeneous	3378 Cellulose		
308-8	Fiberboard Wall	Brown/Gray	99% Cellulose	1% Non-fibrous (Other)	None Detected
022404857-0006	Panles	Fibrous Homogeneous			
308-9	Fiberboard Wall Panles	Brown/White Fibrous	97% Cellulose	3% Non-fibrous (Other)	None Detected
022404857-0007		Homogeneous			
308-10	Wall Sheathing Board	Brown Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected
022404857-0008		Homogeneous			
308-11	Wall Sheathing Board	Brown Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected
022404857-0009		Homogeneous			Nurse Detected
308-12	Wall Sheathing Board	Brown Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected
022404857-0010		Homogeneous	(10) Fiberus (Other)	10% Ca Carbonate	None Detected
308-13 022404857-0011	Window Glaze	Gray/White Non-Fibrous Homogeneous	<1% Fibrous (Other)	90% Non-fibrous (Other)	None Delotica
308-14	Window Glaze	Gray/White/Beige	<1% Cellulose <1% Fibrous (Other)	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
022404857-0012		Homogeneous		,	
308-16	Wood Shed Roof Shingle	Gray/Black Fibrous	3% Glass	97% Non-fibrous (Other)	None Detected
022404857-0013		Heterogeneous			
308-17	Wood Shed Roof Shingle	Gray/Black Fibrous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
022404857-0014		Heterogeneous	<u></u>		
308-19	Wood Shed Roofing Felt	Black Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected
022404857-0015		Homogeneous			
308-20	Wood Shed Roofing Felt	Black Fibrous	80% Cellulose	20% Non-fibrous (Other)	None Detected
022404857-0016		Homogeneous			

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Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes		<u>Asbestos</u> % Type
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	
308-22	Tan Pebble Sheet Flooring	Tan/Black/Beige Fibrous	60% Cellulose 3% Synthetic	37% Non-fibrous (Other)	None Detected
22404857-0017 Inseprable mastic included in a	nalysis	Heterogeneous			
308-23	Tan Pebble Sheet Flooring	Tan/Black/Yellow Fibrous	55% Cellulose 1% Synthetic	44% Non-fibrous (Other)	None Detected
022404857-0018		Heterogeneous			
308-25	Tan Hallway Sheet Flooring	Tan Fibrous	5% Synthetic 3% Glass	92% Non-fibrous (Other)	None Detected
022404857-0019		Homogeneous			
308-26	Tan Hallway Sheet Flooring	Gray/Tan/Yellow Fibrous	20% Cellulose 3% Glass	77% Non-fibrous (Other)	None Detected
022404857-0020		Heterogeneous			
Inseprable mastic included in a	nalysis.				Alara Datastad
308-28	Restroom Sheet Flooring	Brown/White Non-Fibrous	2% Glass	98% Non-fibrous (Other)	None Detected
022404857-0021		Homogeneous			None Detected
308-29	Restroom Sheet Flooring	Brown/White Non-Fibrous	2% Glass	98% Non-fibrous (Other)	None Detected
022404857-0022		Homogeneous	003/ 0	400/ Non Sharey (Other)	None Detected
308-31	Dark Rose Carpet - Backing	Tan/Pink Fibrous	60% Synthetic	40% Non-fibrous (Other)	HOLE DARCED
022404857-0023		Heterogeneous	40/ O- 10-10-0	20% Non fibratic (Other)	None Detected
308-32	Dark Rose Carpet - Backing	Yellow/Pink/Beige Fibrous	<1% Cellulose 70% Synthetic	30% Non-fibrous (Other)	None Detected
022404857-0024		Heterogeneous	0001.0	40% Alex (ibroug (Other)	None Detected
308-34	Light Rose Carpet - Backing	Yellow/Pink Fibrous	60% Synthetic	40% Non-fibrous (Other)	None Detected
022404857-0025		Heterogeneous	rff/ Callulana	30% Non-fibrous (Other)	None Detected
308-35 022404857-0026	Light Rose Carpet - Backing	White/Pink/Clear Fibrous Heterogeneous	<1% Cellulose 70% Synthetic		Hone Datated
	12x12 Elegring	Brown/Gray		20% Ca Carbonate	None Detected
308-37 022404857-0027	12x12 Flooring Square	Non-Fibrous Homogeneous		80% Non-fibrous (Other)	
-	12x12 Flooring	Brown/Gray/Rust		10% Quartz	None Detected
308-38 022404857-0028	Square	Non-Fibrous Heterogeneous		90% Non-fibrous (Other)	
	Tan Square Sheet	Tan/Yellow	2% Cellulose	90% Non-fibrous (Other)	None Detected
308-40-Flooring 022404857-0029	Flooring	Fibrous Homogeneous	5% Synthetic 3% Glass	,	
308-40-Leveler / Mastic	Tan Square Sheet Flooring	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
022404857-0029A	, looning	Homogeneous			
308-41-Flooring	Tan Square Sheet	Gray/Tan Fibrous	10% Cellulose 3% Synthetic	84% Non-fibrous (Other)	None Detected
022404857-0030		Heterogeneous	3% Glass		
308-41-Leveler / Mastic	Tan Square Sheet Flooring	Gray/Yellow Non-Fibrous	2% Cellulose	10% Ca Carbonate 88% Non-fibrous (Other)	None Detected
022404857-0030A		Heterogeneous			
308-43	Spray-applied Ceiling Texture	White Non-Fibrous		30% Ca Carbonate 10% Mica	None Detected
022404857-0031		Homogeneous		60% Non-fibrous (Other)	
308-44	Spray-applied Ceiling Texture	White Non-Fibrous		30% Ca Carbonate 10% Mica	None Detected
022404857-0032		Homogeneous		60% Non-fibrous (Other)	

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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
308-45	Spray-applied Ceiling Texture	Gray/White Non-Fibrous	<1% Cellulose	30% Ca Carbonate 10% Mica	None Detected
022404857-0033		Homogeneous		60% Non-fibrous (Other)	
308-46-Joint Compound	Sheetrock System	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
308-46-Sheetrock	Sheetrock System	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404857-0034A		Homogeneous			
308-47-Joint Compound	Sheetrock System	White Non-Fibrous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022404857-0035		Homogeneous			
308-47-Sheetrock	Sheetrock System	Brown/Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
308-48-Joint Compound	Sheetrock System	White		30% Ca Carbonate	None Detected
022404857-0036	Sheetrock System	Non-Fibrous Homogeneous		70% Non-fibrous (Other)	
308-48-Sheetrock	Sheetrock System	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404857-0036A		Homogeneous			
308-49-Joint Compound	Sheetrock System	Beige Non-Fibrous	3% Cellulose	25% Ca Carbonate 69% Non-fibrous (Other)	3% Chrysotile
022404857-0037		Homogeneous			
308-49-Tape	Sheetrock System	Tan Fibrous	100% Cellulose		None Detected
022404857-0037A		Heterogeneous			
308-49-Sheetrock	Sheetrock System	Brown/Gray Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
022404857-0037B		Heterogeneous			Du status Dasa (blad Anstrond
308-50-Joint Compound	Sheetrock System				Positive Stop (Not Analyzed
022404857-0038		~	10001 0 11 1		None Detected
308-50-Tape	Sheetrock System	Tan Fibrous Homogeneous	100% Cellulose		None Delected
308-50-Sheetrock	Sheetrock System	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
022404857-0038B		Heterogeneous			
308-51	HVAC Duct Tape	Gray Fibrous	30% Synthetic	70% Non-fibrous (Other)	None Detected
022404857-0039		Homogeneous			
308-52	HVAC Duct Tape	Gray Fibrous	30% Synthetic	70% Non-fibrous (Other)	None Detected
022404857-0040		Homogeneous			
308-53	HVAC Duct Tape	Gray/Silver/Beige Fibrous	1% Cellulose 30% Synthetic	69% Non-fibrous (Other)	None Detected
022404857-0041		Heterogeneous			



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Analyst(s)

Jurnee West (27) Scott Combs (22)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product critification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

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

122404857

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PHONE: FAX:

Company Name : Eme	erald, Inc.		EMSL Custo	mer ID:			
Street: P.O. Box 3050			City: Sumter		Stat	e/Provin	ce: SC
Zip/Postal Code: 29151		Country: US	Telephone #	803-469-54	54 Fax	#: 803-4	69-5465
Report To (Name): Ron			Please Prov	ide Results:	Fax 🗹	Email	
Email Address: rlowde	r@emeraldir	nc-us com	Purchase Or	rder:		1996	
Project Name/Number:	Sumter County F	Project. 308 Turkey Rd.	EMSL Proje	ct ID (Internal	Use Only):		
U.S. State Samples Tak	en: SC		CT Samples	: 🗌 Commer	cial/Taxable	Resid	dential/Tax Exemp
	EMSL-B	ill to: 🖸 Same 🔲 Different - Third Party Billing requires wri	If Bill to is Differen	t note instructions	in Comments**		
		Turnaround Time (TAT)			,		
3 Hour	Hour	24 Hour 48 Hour	72 Ho	ur 96	6 Hour	1 Week	2 Week
*For TEM Air 3 hr through 6	hr, please call ah	ead to schedule. "There is a premiu Analysis completed in accordance	m charge for 3 Ho with FMSI's Terr	ur TEM AHERA	or EPA Level II 1 ns located in the	AT You W	vill be asked to sign an Price Guide
PCM - Air Check If sa from NY NIOSH 7400	mples are	TEM - Air 44-4.5hr TAT	(AHERA only)	TEM- Dust	- ASTM D 57		
w/ OSHA 8hr. TWA		NIOSH 7402			STM D6480		
PLM - Bulk (reporting in	mit)				Sonication (EP	A 600/J-	93/167)
PLM EPA 600/R-93/1		ISO 10312		Soil/Rock/			
PLM EPA NOB (<1%)		TEM - Bulk		PLM EP	A 600/R-93/11	i6 with m	Illing prep (<1%)
Point Count							Illing prep (<0.25%
400 (<0.25%) 1000) (<0.1%)	NYS NOB 198.4 (non-fri	able-NY)				illing prep (<0.1%)
Point Count w/Gravimetri		Chatfield SOP		and the second s	alitative via Fi		
400 (<0.25%) 1000		TEM Mass Analysis-EPA	4 600 sec. 2.5		alitative via Di ati Method EP/	op woun A 600/R-(04/004 - PLM/TEN
NYS 198.1 (friable in	NY)	TEM - Water: EPA 100.2		(BC only)			
NYS 198.6 NOB (nor	-friable-NY)	Fibers >10µm Waste	Drinking	Other:			
NYS 198.8 SOF-V		All Fiber Sizes Waste	Drinking				
NIOSH 9002 (<1%)			Ellas a	Dave Gime (A	In Complex)	0.8 µ	ım 0.45µm
/		Identify Homogenous Grou		Pore Size (A	ir Samples):	h	
Samplers Name: Da	ton Rea	mes	Samplers	Signature:	Add	204	
Sample #		Sample Descrip	tion		Volume/Are HA # (Bi		Date/Time Sampled
	Descript	ions on Following Pag	es				8/21/2024
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
				_			
	1.1						
Client Sample # (s): 3	08-1 thru 3				Total # of Sa	mples: 5	3
Relinquished (Client):	DAt	Date Date	e: 8/21	12024	(Time	: 1630
Received (Lab):	C.n.	X Dat	. S.A	24		Time	.IOID
Comments/Special Inst Note: Sumter County Project	tructions:		e: <u>D_</u>	<u> </u>			· WIN
EFX-GUSS	750	7 JULY Page 1 o	f <u>3</u> pages		1	2	
Controlled Document Asbestos Co	DC - R10 - 05/09/2016						

485

53

EMSL

Received:

Relinquished.

Received:

Client Sample # (s)

Relinquished:

CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

Date:

Date:

Date:

Date:

Total Samples #:

Time:

Time:

Time.

Time⁻

308-1 thru 308-53

EMSL Analytical, Inc 706 Gralin Street Kernersville, NC 27284

Phone: (336) 992-1025 Fax: (336) 992-4175 http://www.emsl.com

SAMPLE DESCRIPTION Main House Roof Shingles " Main House Roofing Felt " Fiberboard Wall Panels " Wall Sheathing Board " Window Glaze	
Main House Roofing Felt Fiberboard Wall Panels " Wall Sheathing Board	
Main House Roofing Felt " Fiberboard Wall Panels " Wall Sheathing Board " "	
" Fiberboard Wall Panels " Wall Sheathing Board	
" Fiberboard Wall Panels " Wall Sheathing Board	
Fiberboard Wall Panels " " Wall Sheathing Board " "	
" " Wall Sheathing Board "	
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Window Glaze	
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11	
Tan Hallway Sheet Electing	
Tail Hailway Sheet Hooning	
Restroom Sheet Flooring	
II II	
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Dark Rose Carpet - Backing	
"	
It	
Light Rose Carpet - Backing	
0	
17	
12x12 Flooring Square	
0	
17	
Tan Square Sheet Flooring	
U U	
Spray-applied Ceiling Texture	
	Tan Hallway Sheet Flooring " Restroom Sheet Flooring " Dark Rose Carpet - Backing " Light Rose Carpet - Backing " 12x12 Flooring Square " " "

2 0 + 3

4857

FMSL

CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

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Phone: (336) 992-1025 Fax: (336) 992-4175 http://www.emsl.com

SAMPLE NUMBER	SAMPLE DESCRIPTION	VOLUME (if applicable)
308-46	Sheetrock System	
308-47	1	
308-48	" Sample All 2	avers
308-49	н	
308-50	"	
308-51	HVAC Duct Tape	
308-52	II	
308-53	U	
l		
·		
i		

3 of 3

APPENDIX D

BUILDING INSPECTOR LICENSES

SCDHEC ISSUED Asbestos ID Card

RONNY LOWDER



Expiration Date: CONSULTMP ASB-32201 09/18/24 CONSULTBI BI-01497 09/18/24 SUPERAHERA SA-00715 09/17/24

.

1



John Dalton Reames, Jr.



CONSULTPD SUPERAHERA SA-01252

Expiration Date: 11/07/24 11/06/24 AIRSAMPLER AS-00287 CONSULTBI BI-00945 08/07/25 PD-00200 11/07/24

APPENDIX E

SITE PHOTOGRAPHS

Sumter City/County Project: 308 Turkey Rd., Sumter, S.C.

Photo #4 No Asbestos Detected in Shingle Rolls of the Wooden Shed Structure



Photo #3 No Asbestos Detected in Residential Roofing Shingles or Felt Layer





Photo #2 No Asbestos Detected in Exterior Fiberboard Wall Panels or Sheathing Board

Photo #1 South-facing View of the Residential Structure





Photo #5 No Suspect Materials Associated with Standalone Metal Storage Shed



Photo #7 Asbestos-containing Sheetrock Wall behind Wall Paneling in Room 308A



Photo #6 View Depicting Significant Fire Damage to Building Materials in Room 308F



Photo #8 Asbestos-containing Ceiling Debris on Floor in Room 308F

Sumter City/County Project: 308 Turkey Rd., Sumter, S.C.

Sumter City/County Project: 308 Turkey Rd., Sumter, S.C.

Photo #12 No Asbestos Detected in Duct Tape Associated with Vent and Crawl Space Ductwork



Photo #10 No Asbestos Detected in Any Sheet Flooring or Carpet Layers



Photo #9 No Asbestos Detected in Spray-applied Ceiling Texture (Sheetrock is RACM)

13



Asbestos-containing Sheetrock Ceiling Debris on Floor of Room 308E





2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

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ASBESTOS SURVEY REGARDING SUMTER CITY/COUNTY PROJECT DILAPIDATED RESIDENTIAL BUILDING 253 EAST RED BAY ROAD SUMTER, SOUTH CAROLINA



Prepared for:

City of Sumter P.O. Box 1449 Sumter, South Carolina 29151

Prepared by:

Emerald, Inc. P.O. Box 3050 Sumter, South Carolina 29151

Date of Inspection: August 19, 2024 Date of Report: August 29, 2024

FOREWORD

This report was prepared by Emerald, Inc. of Sumter, South Carolina, for the City of Sumter, regarding the dilapidated residential building located at 253 E. Red Bay Rd. in Sumter, S.C. The contents of this report are confidential and intended for the use of the client only.

J. Dalton Reames, Jr., S.C. Licensed Building Inspector, conducted the inspection, and Ronny L. Lowder, S.C. Licensed Building Inspector and Management Planner, prepared this report. Any questions or comments concerning this report should be directed to Ronny L. Lowder at either (803) 469-5454 or via email at rlowder@emeraldincus.com.

J. Dalton Reames.

SC Licensed Building Inspector License Number BI-00945 Expiration Date: 11/06/24

SC Licensed AHERA Supervisor License Number SA-01252 Expiration Date: 11/07/24

SC Licensed Air Sampler License Number AS-00287 Expiration Date: 11/07/24

SC Licensed Project Designer License Number PD-00200 Expiration Date: 08/07/25

owder, CHMM

SC Licensed Building Inspector License Number BI-01497 Expiration Date: 09/18/24

SC Licensed AHERA Supervisor License Number SA-00715 Expiration Date: 09/17/24

SC Licensed Mgmt Planner License Number ASB-32201 Expiration Date: 09/18/24

TABLE OF CONTENTS

1.0	INTRODUCTION AND OBJECTIVE	1
2.0	SURVEY METHODOLOGY	1
3.0	HAZARD ASSESSMENT FACTORS (ASBESTOS)	2
3.1	Homogeneous Areas	2
3.2	Hazard Factors	3
4.0	ANALYSIS AND RESULTS	3
4.1	Laboratory Analysis	3
4.2	Survey Results	4
5.0	CONCLUSIONS AND RECOMMENDATIONS	5
6.0	ASSUMPTIONS AND LIMITATIONS	6
7.0	APPENDICES	7

1.0 INTRODUCTION AND OBJECTIVE

Emerald, Inc. was requested to conduct an Asbestos Survey of the vacant residential structure located at 253 E. Red Bay Rd. in Sumter, S.C., to identify the presence of any asbestos-containing materials (ACM), prior to demolition activities. The inspection was authorized by Mr. John Macloskie, Codes Director, with the City of Sumter. The inspection included identification and assessment of the condition of suspect asbestos-containing materials, either friable or non-friable, on the interior and exterior portions of the structure.

This report is a compilation of the inspection and its results.

2.0 SURVEY METHODOLOGY

On August 19, 2024, Emerald, Inc. conducted an Asbestos Survey on the building at the stated address. J. Dalton Reames, Jr., South Carolina Licensed Building Inspector, conducted the inspection.

Estimated to have been constructed circa 1950 for residential purposes, the singlestory residential structure contains approximately 915 square feet of interior space. The basic building construction is as follows:

- Wood-framed Walls Built over an Earthen Crawl Space
 - Brick Veneer Exterior Siding
- Wooden A-framed Roof Structure
 - Covered with Shingles and Associated Felt
- Wood Slat Floors
 - Tacked Carpet
 - Resilient Sheet Flooring Layers
- Wood-framed Interior Walls Covered with Sheetrock

- Wooden Ceiling Joists Covered with Original Wood Slats
 - Sheetrock over Wood Slats
 - Stippled Texture over Some Sheetrock Sections
- No HVAC Equipment

Future use of the property, following demolition activities, is unknown.

The survey included a visual inspection to identify the presence of material suspected of containing asbestos. This identification was based on the experience and training of the inspector. A total of thirty-eight (38) samples were collected during the survey for laboratory analysis, based upon the required EPA and SC DHEC sampling matrix. Samples were placed in individual containers, labeled and numbered according to the sampling schemes (253E-1 through 253E-38). Per SC DHEC Asbestos Regulations, the independent laboratory is required to sample all layers of each sample. As a result, thirty-three (33) samples were analyzed by the lab, via Polarized Light Microscopy (PLM) while utilizing Positive Stop, and ten (10) samples were analyzed, via Transmission Electron Microscopy (TEM). Appendix B contains the Asbestos Survey Log kept during the inspection which identifies the samples collected by sample number, sample type, location and condition assessment, along with any comments. The samples were shipped to EMSL Analytical, Inc. in Kernersville, North Carolina for analysis. Analysis and results are discussed in Section 4.0.

3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)

3.1 Homogeneous Areas

The sample collection was typically conducted by homogeneous materials, i.e., any materials of the same type regarding uniformity throughout in structure or make-up and appearance (color, texture, and/or date of construction/application). Homogeneous materials can be further classified as surfacing materials, thermal system insulation and miscellaneous materials. Miscellaneous materials include ceiling tiles, floor tiles, roofing, caulking, and glazing, etc.

3.2 Hazard Factors

The samples of suspect material collected were classified as either friable (F) or non-friable (NF). Friable means the material can be crumbled, pulverized, or reduced to powder by ordinary hand pressure. Materials initially determined to be non-friable can receive a reclassification of friable if the material is damaged, thereby providing an avenue for release of asbestos fibers. Friable asbestos-containing material (ACM) has been determined by EPA and OSHA to be a greater hazard (health risk) than non-friable ACM. In assessing the fiber release potential, the current condition of the suspect materials sampled was noted in the Asbestos Survey Log (Appendix B). The condition was denoted as good, damaged, or significantly damaged. Current condition is a factor used to assess the potential for fiber release. Other factors used to determine potential fiber release include air movement, surface type, and area activity as related to human occupancy.

4.0 ANALYSIS AND RESULTS

4.1 Laboratory Analysis

Bulk samples were analyzed by EMSL Analytical, Inc. using Polarized Light Microscopy (PLM) with Dispersion Staining Techniques (EPA Bulk Analysis Method 600/R-93/116). This method utilizes part of the bulk sample which is mounted on a slide and exposed to an oil of specific refractive index. This prepared slide is then subjected to a variety of optical tests.

Each type of asbestos displays unique characteristics when subjected to these

tests. Percentages of asbestos content are then determined through visual estimating. Although this is an estimate, any material containing greater than one percent of any type of asbestos is classified as ACM by the EPA. Any material classified as ACM must be handled accordingly.

Under the revised South Carolina Asbestos Regulation 61-86.1 effective June 27, 2008, any analysis of non-friable organically bound (NOB) material that is found to be negative via PLM testing, must have confirmation testing via Transmission Electron Microscopy (TEM) on one sample from each media; therefore, ten (10) samples were analyzed by the lab, via TEM testing.

4.2 Survey Results

Samples were collected and tested from various suspect materials, as referenced in Appendix B, Asbestos Sample Log. Samples of carpet backing, reddish sheet flooring, wood-design sheet flooring, yellowish square sheet flooring, tan sheet flooring, yellow geometric sheet flooring, roof shingles, roofing felt, window glaze and window caulk were verified as negative, via TEM analysis.

Appendix C contains a copy of the analytical results from the laboratory. of the analytical results from the laboratory.

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5.0 CONCLUSIONS AND RECOMMENDATIONS

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Based upon the inspection of August 19, 2024, and the analytical results from the samples collected and tested by an independent laboratory, the dilapidated residential building located at 253 E. Red Bay Rd. in Sumter, S.C., does not contain friable or non-friable ACM, as of the date of the survey, August 19, 2024.

6.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection of August 19, 2024. Emerald, Inc., their representative and this report make no representation and/or assumptions as to past conditions or future occurrences. The information, conclusions and recommendations provided herein do not constitute as legal or medical advice. It is further understood that Emerald, Inc. makes no representations or warranties of any kind. Nor are such representations or warranties to be implied with respect to the data furnished. Emerald, Inc. assumes no responsibility with respect to the customers and its employees use thereof.

The information provided herein applies only to the subject property as it existed during Emerald, Inc.'s site visit. If this site's use and/or conditions change, information, observations and recommendations found herein would no longer apply. This report is intended to be used in its entirety. No excerpts may be taken to typify the findings of this survey. Emerald, Inc. shall not be liable for any special, consequential and/or exemplary damages resulting, in whole or in part, from the customer's use of the data provided. It was not within the scope of this investigation to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Our selection of sample locations and frequency is based upon our observations and the assumption that like materials in the same are homogeneous.

Emerald, Inc. conducted the survey to the best of its ability using the standards of the industry. In the event additional materials are found to contain asbestos, Emerald, Inc. shall not be liable for any failure of such findings during its initial survey.

6

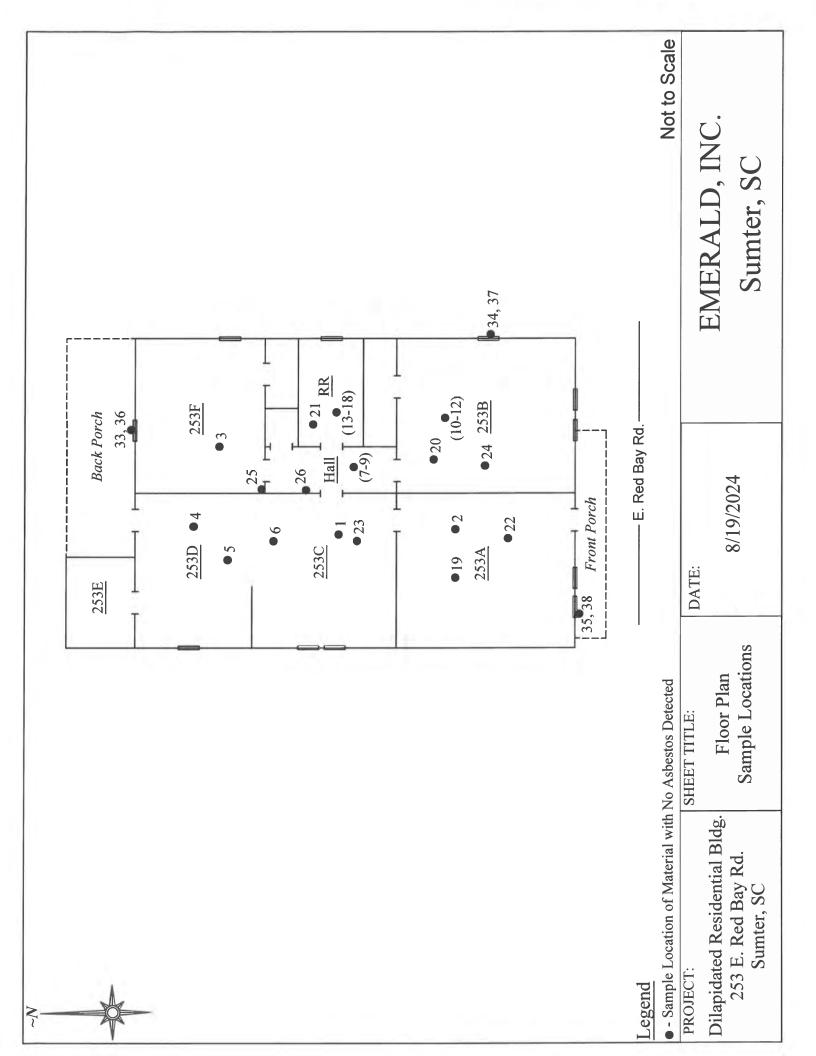
7.0 APPENDICES

APPENDIX A.	Site Plan
APPENDIX B.	Asbestos Sample Log
APPENDIX C.	Chain of Custody & Analytical Results
APPENDIX D.	Building Inspector Licenses
APPENDIX E.	Site Photographs

APPENDIX A

SITE PLAN





APPENDIX B

ASBESTOS SAMPLE LOG

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 253 E. Red Bay Rd. ADDRESS: 253 E. Red Bay Rd., Sumter, S.C.

DATE: <u>8/19/2024</u> INSPECTOR: <u>Dalton Reames</u>

		LOCATION								POTE	NTIAL	FOR FU	TURE	POTENTIAL FOR FUTURE DISTURBANCE	BANCE		
								APPROX	Ŭ	CONTACT		VIBR	VIBRATION		AIRER	AIR EROSION	7
SAMPLE #	FLOOR	ROOM	EXACT	DESCRIPTION	CONDITION	TYPE	F/NF	SF/LF	Т	Σ	-	I	V	-	H	V	_
253E-1		253C										┝	┢	┢	┝	┝	
253E-2	First	253A	Floor	Backing of Blue/Gray-colored Carpet	IJ	Σ	NF	552 SF	×			×	\vdash		×		
253E-3		253F															
253E-4		253D	Eloor	-													
253E-5	First	253D	001-	Reddish Brown, Square-design Sheet Flooring	U	Σ	NF	264 SF	×			×			×		
253E-6		253C - Uni	253C - Under Carpet	2													
253E-7																	
253E-8	First	Hall	Floor	Wood-design Sheet Flooring	U	Σ	NF	40 SF	×			×			×		
253E-9																	
253E-10																	
253E-11	First	253B	Floor	Yellowish Tan, Square-design Sheet Flooring	U	Σ	NF	156 SF	×			 ×			×		
253E-12																	
253E-13			Top Layer	ł													
253E-14	First	RR	of Sheet	Kestroom Lop-layer, Lan-colored Sheet Flooring	U	Σ	NF	40 SF	×			×			 ×		
253E-15			Flooring														
253E-16			Bottom	Restroom Bottom-layer, Light													
253E-17	First	RR	Layer or Sheet	Yellow, Geometric-design Sheet	U	Σ	NF	40 SF	×			 ×			×		
253E-18			Flooring	Flooring									_				
253E-19		253A															
253E-20	First	253B	Ceiling	Stippled Ceiling Texture	۵	S	ш	875 SF	×			×			 ×	_	
253E-21		RR											-			_	
<u>Condition</u> G= Good				<u>Type</u> S= Surface		<u>F/NF</u> F= Fri	<u>F/NF</u> F= Friable			<u>Potentia</u> H= High	<u>Potential for Future Disturbance</u> H= High	uture Di	isturbai	nce			
D= Damaged SD= Significantly Damaged	tly Damaged	_		TSI= Thermal Systems Insulation M= Miscellaneous		NF=	NF= Non Friable	Ð		M= Moo L= Low	M= Moderate L= Low						

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 253 E. Red Bay Rd. ADDRESS: 253 E. Red Bay Rd., Sumter, S.C.

DATE: 8/19/2024 INSPECTOR: Dalton Reames

	NOISC																							
POTENTIAL FOR FUTURE DISTURBANCE	AIR EROSION	ъ Т	-		 ×				×		-	×		-	×			×		-	-	-	-	
DISTUR		_	┢																					JCe
UTURE	VIBRATION	Σ								\vdash														Disturba
L FOR FI	VIBI	н		<u> </u>	×	I	<u>I</u>		×	<u>I</u>		×	<u> </u>		×			×						<u>Potential for Future Disturbance</u> H= High
TENTIA	E	L																						<u>ntial for</u> igh
PO	CONTACT	M																						<u>Potentia</u> H= High
		т			×				×			×			×			×						
	APPROX	SF/LF			3,200 SF				1,400 SF			1,400 SF			264 LF			154 LF						
		F/NF			ш				NF			NF			NF			NF						<u>E/NF</u> F= Friable
		TYPE			S				Σ			Σ			Σ			Σ						<u>E/NF</u> F= Fria
		CONDITION			SD				U			IJ			U			U						
		DESCRIPTION			Sheetrock with Joint Compound Ceiling and Wall Svstem				Reddish Brown Roof Shingles			Roofing Felt			Exterior Window Glaze			Exterior Window Caulk						<u>Type</u> S= Surface
		EXACT	Ceiling	Ceiling	Ceiling	Wall	Wall								v Units			Frames						
LOCATION		ROOM	253A	253C	253B	253F	Hall		Roof			Roof			Window Units			Window Frames						
		FLOOR			First		L								Exterior			Exterior						
		SAMPLE #	253E-22	253E-23	253E-24	253E-25	253E-26	253E-27	253E-28	253E-29	253E-30	253E-31	253E-32	253E-33	253E-34	253E-35	253E-36	253E-37	253E-38					<u>Condition</u> G= Good

APPENDIX C

CHAIN OF CUSTODY & ANALYTICAL RESULTS



Attention: Ronny Lowder

Emerald, Inc.

PO Box 3050

2520 Tahoe Drive

Sumter, SC 29151

EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404794 Customer ID: EMER51 Customer PO: Project ID: Sumter County

 Phone:
 (803) 469-5454

 Fax:
 (803) 775-1970

 Received Date:
 08/21/2024 9:00 AM

 Analysis Date:
 08/28/2024

 Collected Date:

Project: Sumter County Project : 253 E. Red Bay Rd (Sumter County)

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
253E-3 022404794-0029	Carpet Backing	Gray/Yellow/Clear Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
253E-6 022404794-0030	Reddish Square Sheet Flooing	Brown/Gray Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
253E-9 022404794-0031	Wood Design Sheet Flooring	Brown/Gray Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
253E-12 022404794-0032	Yellowish Square Sheet Flooring	Gray/Tan/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
253E-15 022404794-0033	Tan Sheet Flooring	Gray/Tan Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
253E-18 022404794-0034	Yellow Geometric Sheet Flooring	Tan/Yellow Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
253E-29 022404794-0035	Roof Shingles	Brown/Tan/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
253E-32 022404794-0036	Roofing Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
253E-35 022404794-0037	Window Glaze	Gray/Tan/Pink Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
253E-38 022404794-0038	Window Caulk	Gray/White/Pink Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/29/2024 08:41:02

ASB_PLMEPANOB_0012_0002 Printed 8/29/2024 8:41:06AM

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention: Ronny Lowder Emerald, Inc. 2520 Tahoe Drive PO Box 3050 Sumter, SC 29151 Project: Sumter County Project : 253 E. Red Bay Rd (Sumter County)	Phone: Fax: Received Date: Analysis Date: Collected Date:	(803) 775-1970 08/21/2024 9:00 AM

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 (10)

the

Stephen Bennett, Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/29/2024 08:41:02

ASB_PLMEPANOB_0012_0002 Printed 8/29/2024 8:41:06AM

EMSL	EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:	Ronny Lowder	Phone:	(803) 469-5454
	Emerald, Inc.	Fax:	(803) 775-1970
	2520 Tahoe Drive	Received Date:	08/21/2024 9:00 AM
	PO Box 3050	Analysis Date:	08/26/2024
	Sumter, SC 29151	Collected Date:	
Project:	Sumter County Project : 253 E. Red Bay Rd (Sumter County)		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes	stos	Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре		
253E-1	Carpet Backing	Black/Beige Fibrous Homogeneous	80% Synthetic	20% Non-fibrous (Other)	None Detected		
253E-2	Carpet Backing	Black/Beige Fibrous	80% Synthetic	20% Non-fibrous (Other)	None Detected		
022404794-0002		Homogeneous					
253E-4	Reddish Square Sheet Flooing	Gray/Tan Fibrous	30% Cellulose 2% Glass	68% Non-fibrous (Other)	None Detected		
022404794-0003	Daddiah Cawasa	Homogeneous	30% Cellulose	68% Non-fibrous (Other)	None Detected		
253E-5	Reddish Square Sheet Flooing	Gray/Tan Fibrous	2% Glass				
022404794-0004		Homogeneous					
253E-7	Wood Design Sheet Flooring	Gray/Tan Fibrous	30% Cellulose 2% Glass	68% Non-fibrous (Other)	None Detected		
022404794-0005		Heterogeneous	000/ 0 7 1		None Detected		
253E-8	Wood Design Sheet Flooring	Brown/Beige Fibrous	30% Cellulose 2% Glass	68% Non-fibrous (Other)	None Detected		
022404794-0006		Homogeneous	400/ 0 11 1-	DEQ/ Non Sharey (Other)	None Detected		
253E-10	Yellowish Square Sheet Flooring	Gray/Tan/Yellow Fibrous	10% Cellulose 5% Synthetic	85% Non-fibrous (Other)	None Derected		
022404794-0007		Heterogeneous	<1% Glass				
253E-11	Yellowish Square Sheet Flooring	Gray/Tan/Yellow Fibrous	10% Cellulose 5% Synthetic	85% Non-fibrous (Other)	None Detected		
022404794-0008		Homogeneous	<1% Glass		None Detected		
253E-13	Tan Sheet Flooring	Gray Fibrous	30% Cellulose 2% Glass	68% Non-fibrous (Other)	None Detected		
022404794-0009		Homogeneous			None Detected		
253E-14	Tan Sheet Flooring	Gray Fibrous	30% Cellulose 2% Glass	68% Non-fibrous (Other)	None Detected		
022404794-0010		Homogeneous	05% 0-11-1	729/ Neg Ebroup (Other)	None Detected		
253E-16 022404794-0011	Yellow Geometric Sheet Flooring	Tan Fibrous Heterogeneous	25% Cellulose 2% Glass	73% Non-fibrous (Other)	None Delected		
253E-17	Yellow Geometric	Heterogeneous Yellow	10% Cellulose	90% Non-fibrous (Other)	None Detected		
	Sheet Flooring	Fibrous					
022404794-0012		Homogeneous					
253E-19	Stippled Ceiling Texture	Tan/White Non-Fibrous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected		
022404794-0013		Homogeneous					
253E-20	Stippled Ceiling Texture	Tan/White Non-Fibrous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected		
022404794-0014		Homogeneous					
253E-21	Stippled Ceiling Texture	Tan/White Non-Fibrous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected		
022404794-0015		Homogeneous					
253E-22-Joint Compound	Sheetrock System	Tan/White Non-Fibrous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected		
		Homogeneous					

Initial report from: 08/26/2024 17:18:08



706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175

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

EMSL Order: 022404794 Customer ID: EMER51 Customer PO:

Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
253E-22-Sheetrock	Sheetrock System	Gray Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
253E-23-Joint Compound	Sheetrock System	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022404794-0017					
253E-23-Sheetrock	Sheetrock System	Gray/Tan Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404794-0017A		Heterogeneous		30% Ca Carbonate	None Detected
253E-24-Joint Compound	Sheetrock System	White Non-Fibrous Homogeneous		70% Non-fibrous (Other)	
022404794-0018					
253E-24-Sheetrock	Sheetrock System	Gray Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
253E-25-Joint Compound	Sheetrock System	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022404794-0019	Chaoteack Sustem	Brown/Crow	10% Cellulose	90% Non-fibrous (Other)	None Detected
253E-25-Sheetrock	Sheetrock System	Brown/Gray Fibrous Heterogeneous	10% Cellulose	3070 NON-HIDROUS (Outlot)	
253E-26-Joint Compound	Sheetrock System	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022404794-0020					
253E-26-Sheetrock	Sheetrock System	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404794-0020A	Deef Shingles	Heterogeneous Brown/Black	8% Glass	92% Non-fibrous (Other)	None Detected
253E-27 022404794-0021	Roof Shingles	Fibrous Heterogeneous	0 /6 Glass	32,6 Nor-Norodo (Othor)	
253E-28	Roof Shingles	Brown/Black Fibrous	8% Glass	92% Non-fibrous (Other)	None Detected
022404794-0022		Heterogeneous			None Detected
253E-30 022404794-0023	Roofing Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
253E-31	Roofing Felt	Black Fibrous	60% Cellulose	40% Non-fibrous (Other)	None Detected
022404794-0024	State 1	Homogeneous			
253E-33	Window Glaze	Gray/Tan Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
022404794-0025		Homogeneous			
253E-34	Window Glaze	Gray/Tan Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
022404794-0026		Homogeneous			None Detected
253E-36 022404794-0027	Window Caulk	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
253E-37	Window Caulk	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
022404794-0028		Homogeneous			



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404794 Customer ID: EMER51 Customer PO: Project ID: Sumter County

Analyst(s)

Cameron Evans (18) Jurnee West (15)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

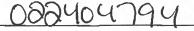
EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis . Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 08/26/2024 17:18:08



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



PHONE: FAX

Company Name : Emer	ald, Inc.		EMS	L Custo	mer ID:		
Street: P.O. Box 3050				Sumter		State/Provin	
Zip/Postal Code: 29151		Country: US	Tele	phone #	: 803-469-54		469-5465
Report To (Name): Ronny			Plea	se Provi	de Results:	🗌 Fax 🗹 Email	
Email Address: rlowder(@emeraldir	nc-us.com		chase Or			
Project Name/Number: S	umter County P	Project: 253 E. Red Bay Rd	EMS	Samples	t ID (Internal	Use Only): rcial/Taxable 🔲 Resi	dential/Tax Exempt
U.S. State Samples Taker	EMSL-B	ill to: 17 Same Different -					William Ian Exempt
		Third Party Billing requires writ	ten aut	thorization	from third part		
3 Hour 6	Hour	Turnaround Time (TAT)	Optic	ons* – Pl		6 Hour 11 Week	2 Week
*For TEM Air 3 hr through 6 hr	please call ab	ead to schedule "There is a premium	n charg	te for 3 Ho	UT TEM AHERA	or EPA Level II TAT. You v	will be asked to sign an
authorization form f		Analysis completed in accordance				ns located in the Analytical I	Price Guide
from NY		<u>TEM – Air</u> 4-4.5hr TAT (A only)	TEM- Dust		
NIOSH 7400		AHERA 40 CFR, Part 76	3			- ASTM D 5755	
w/ OSHA 8hr. TWA		NIOSH 7402				STM D6480	02/467)
PLM - Bulk (reporting lim		EPA Level II				Sonication (EPA 600/J-	99(101)
PLM EPA 600/R-93/116	5 (<1%)	ISO 10312			Soil/Rock/	A 600/R-93/116 with m	ulling prep (<1%)
PLM EPA NOB (<1%) Point Count		TEM - Bulk				A 600/R-93/116 with m	
400 (<0.25%) 1000 ((<0 1%)	NYS NOB 198.4 (non-fria	ble-N	Y)		A 600/R-93/116 with m	
Point Count w/Gravimetric	,	Chatfield SOP				alitative via Filtration P	
400 (<0.25%) 1000 ((<0.1%)	TEM Mass Analysis-EPA	600 s	sec. 2.5		alitative via Drop Moun ati Method EPA 600/R-	
NYS 198.1 (friable in N	IY)	TEM - Water: EPA 100.2			(BC only)		
NYS 198.6 NOB (non-1	fnable-NY)	Fibers >10µm Waste [Dn	nking	Other:		
NYS 198.8 SOF-V		All Fiber Sizes Waste	Dri	nking			
NIOSH 9002 (<1%)			_	1	1		
		Identify Homogenous Grou	<u>р</u>	Filter	Pore Size (A	ir Samples): 0.8	um 0.45µm
Samplers Name: Dalt	on Rea	mes	s	amplers	Signature:	Vatte to	aer
Sample #		Sample Descript	ion			Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
	Descript	ions on Following Page					8/19/2024
	Besonpt	iono on i onoming i ug					
			_				
			1				
				3.b			
Client Sample # (s): 25	3E-1 thru	253E-38 .				Total # of Samples: ³	18
Relinguished (Client):	Datto	Date Date	: 8	3/20	12024		000-
	(FO	<	8.21	201		Q.
Received (Lab):			· /	1 (11)	24	Time	·····
I souther an above man	Uctions.	∧Date	<u>. </u>				
Note: Sumter County Project	uctions:	Date	<u>. </u>				
	s 750			pages			
BEAR 79.68	5 750	Page 1 of		_pages			
	5 750			_pages			
BEAR 79.68	5 750	Page 1 of		pages			2

4794



CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284

Client Sample # (s)	253E-1 thru 253E-38	Total Samples #:	38	Phone ⁻ (336) 992-1025
Relinguished:	Date:	Time:		Fax. (336) 992-4175
Received:	Date:	Time:		http://www.emsl.com
Relinguished:	Date:	Time:		
Received:	Date:	Time:		

SAMPLE NUMBER	SAMPLE DESCRIPTION	VOLUME (if applicable)
253E-1	Carpet Backing	
253E-2 253E-4	11	
	n n	
253E-4	Reddish Square Sheet Flooring	
253E-5	н	
	0	
253E-7	Wood Design Sheet Flooring	
253E-8	11	
	U	
253E-10	Yellowish Square Sheet Flooring	
253E-11	»	
2052-11	Н	
253E-13	Tan Sheet Flooring	
	"	
253E-14	11	
253E-16	Yellow Geometric Sheet Flooring	
253E-17	8	
253E-19	Stippled Ceiling Texture	
253E-20		
253E-21		
253E-22	Sheetrock System	
253E-23	· / · · · · · · · · · · · · · · · · · ·	
253E-24	" Sample All	Kayers
253E-25	0	
253E-26	"	
253E-27	Roof Shingles	
253E-28		
	17	
253E-30	Roofing Felt	
253E-31	H	
	"	
253E-33	Window Glaze	
253E-34	11	
	11	
253E-36	Window Caulk	
253 <u>E-</u> 37	11	
	11	

APPENDIX D

BUILDING INSPECTOR LICENSES

SCDHEC ISSUED Asbestos ID Card

RONNY LOWDER



CONSULTMP ASB-32201 09/18/24 CONSULTBI BI-01497 09/18/24 SUPERAHERA SA-00715 09/17/24

.

1



John Dalton Reames, Jr.



AIRSAMPLER CONSULTBI CONSULTPD SUPERAHERA

Expiration Date: ER AS-00287 11/07/24 I BI-00945 11/06/24 D PD-00200 08/07/25 RA SA-01252 11/07/24

APPENDIX E

SITE PHOTOGRAPHS



Photo #1 Northwest-facing View Depicting the Residential Structure



Photo #3 No Asbestos Detected in Glaze or Caulk Associated with Window Units



Photo #2 No Suspect Materials Observed in Earthen Crawl Space Area



Photo #4 View Depicting Dilapidated Interior Conditions

-

Sumter City/County Project: 253 E. Red Bay Rd., Sumter, S.C.



Photo #5 No Asbestos Detected in Carpet or Sheet Flooring Materials

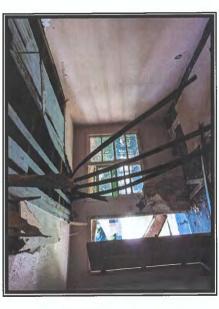






Photo #6 No Asbestos Detected in Ceiling Sheetrock or Stippled Texture



Photo #8 Southeast-facing View Depicting Damage to Roof Components Sumter City/County Project: 253 E. Red Bay Rd., Sumter, S.C.



2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE: www.emeraldinc-us.com TELEPHONE (803) 469-5454 FAX (803) 469-5465

ASBESTOS SURVEY REGARDING SUMTER CITY/COUNTY PROJECT DILAPIDATED MOBILE HOME STRUCTURE 504 ATLANTIC STREET SUMTER, SOUTH CAROLINA



Prepared for:

City of Sumter P.O. Box 1449 Sumter, South Carolina 29151

Prepared by:

Emerald, Inc. P.O. Box 3050 Sumter, South Carolina 29151

Date of Inspection: August 14, 2024 Date of Report: August 27, 2024

FOREWORD

This report was prepared by Emerald, Inc. of Sumter, South Carolina, for the City of Sumter, regarding the dilapidated mobile home structure located at 504 Atlantic St. in Sumter, S.C. The contents of this report are confidential and intended for the use of the client only.

J. Dalton Reames, Jr., S.C. Licensed Building Inspector, conducted the inspection, and Ronny L. Lowder, S.C. Licensed Building Inspector and Management Planner, prepared this report. Any questions or comments concerning this report should be directed to Ronny L. Lowder at either (803) 469-5454 or via email at rlowder@emeraldincus.com.

Dalton Reames.

SC Licensed Building Inspector License Number BI-00945 Expiration Date: 11/06/24

SC Licensed AHERA Supervisor License Number SA-01252 Expiration Date: 11/07/24

SC Licensed Air Sampler License Number AS-00287 Expiration Date: 11/07/24

SC Licensed Project Designer License Number PD-00200 Expiration Date: 08/07/25

Lowder, CHMM

SC Licensed Building Inspector License Number BI-01497 Expiration Date: 09/18/24

SC Licensed AHERA Supervisor License Number SA-00715 Expiration Date: 09/17/24

SC Licensed Mgmt Planner License Number ASB-32201 Expiration Date: 09/18/24

TABLE OF CONTENTS

1.0 INTRODUCTION AND OBJECTIVE	1
2.0 SURVEY METHODOLOGY	1
3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)	3
3.1 Homogeneous Areas	
3.2 Hazard Factors	
4.0 ANALYSIS AND RESULTS	3
4.1 Laboratory Analysis	
4.2 Survey Results	
5.0 CONCLUSIONS AND RECOMMENDATIONS	6
6.0 ASSUMPTIONS AND LIMITATIONS	7
7.0 APPENDICES	8

1.0 INTRODUCTION AND OBJECTIVE

Emerald, Inc. was requested to conduct an Asbestos Survey of the vacant residential structure located at 504 Atlantic St. in Sumter, S.C., to identify the presence of any asbestos-containing materials (ACM), prior to demolition activities. The inspection was authorized by Mr. John Macloskie, Codes Director, with the City of Sumter. The inspection included identification and assessment of the condition of suspect asbestos-containing materials, either friable or non-friable, on the interior and exterior portions of the structure.

This report is a compilation of the inspection and its results.

2.0 SURVEY METHODOLOGY

On August 14, 2024, Emerald, Inc. conducted an Asbestos Survey on the building at the stated address. J. Dalton Reames, Jr., South Carolina Licensed Building Inspector, conducted the inspection.

Estimated to have been prefabricated circa 1990 for residential purposes, the single-story mobile home structure contains approximately 696 square feet of interior space. The basic building construction is as follows:

- Wood-framed Exterior Walls, Built on a Metal Trailer Structure
 - Metal Exterior Sides
- Flat Metal Roof Attached to Wood Framework
 - Silver Sealant Material
 - Roof-edge Flashing Caulk
- Wood Floor Substrate
 - Tacked Carpeting
 - Resilient Sheet Flooring Layers

- Wood-framed Walls Covered with Wood Panels
- Wooden Ceiling Components Covered with Prefab Gypsum Sections
- Climate Control Equipment
 - Furnace Heating Unit Supplying Floor-mounted Registers
 - Window-mounted Air Conditioning Units

Future use of the property, following demolition activities, is unknown.

The survey included a visual inspection to identify the presence of material suspected of containing asbestos. This identification was based on the experience and training of the inspector. A total of thirty-nine (39) samples were collected during the survey for laboratory analysis, based upon the required EPA and SC DHEC sampling matrix. Samples were placed in individual containers, labeled and numbered according to the sampling schemes (504-1 through 504-39). Per SC DHEC Asbestos Regulations, the independent laboratory is required to sample all layers of each sample. As a result, thirty-two (32) samples were analyzed by the lab, via Polarized Light Microscopy (PLM) while utilizing Positive Stop, and eleven (11) samples were analyzed, via Transmission Electron Microscopy (TEM). Appendix B contains the Asbestos Survey Log kept during the inspection which identifies the samples collected by sample number, sample type, location and condition assessment, along with any comments. The samples were shipped to EMSL Analytical, Inc. in Kernersville, North Carolina for analysis. Analysis and results are discussed in Section 4.0.

3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)

3.1 Homogeneous Areas

The sample collection was typically conducted by homogeneous materials, i.e., any materials of the same type regarding uniformity throughout in structure or make-up and appearance (color, texture, and/or date of construction/application). Homogeneous materials can be further classified as surfacing materials, thermal system insulation and miscellaneous materials. Miscellaneous materials include ceiling tiles, floor tiles, roofing, caulking, and glazing, etc.

3.2 Hazard Factors

The samples of suspect material collected were classified as either friable (F) or non-friable (NF). Friable means the material can be crumbled, pulverized, or reduced to powder by ordinary hand pressure. Materials initially determined to be non-friable can receive a reclassification of friable if the material is damaged, thereby providing an avenue for release of asbestos fibers. Friable asbestos-containing material (ACM) has been determined by EPA and OSHA to be a greater hazard (health risk) than non-friable ACM. In assessing the fiber release potential, the current condition of the suspect materials sampled was noted in the Asbestos Survey Log (Appendix B). The condition was denoted as good, damaged, or significantly damaged. Current condition is a factor used to assess the potential for fiber release. Other factors used to determine potential fiber release include air movement, surface type, and area activity as related to human occupancy.

4.0 ANALYSIS AND RESULTS

4.1 Laboratory Analysis

Bulk samples were analyzed by EMSL Analytical, Inc. using Polarized Light

Microscopy (PLM) with Dispersion Staining Techniques (EPA Bulk Analysis Method 600/R-93/116). This method utilizes part of the bulk sample which is mounted on a slide and exposed to an oil of specific refractive index. This prepared slide is then subjected to a variety of optical tests.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of asbestos content are then determined through visual estimating. Although this is an estimate, any material containing greater than one percent of any type of asbestos is classified as ACM by the EPA. Any material classified as ACM must be handled accordingly.

Under the revised South Carolina Asbestos Regulation 61-86.1 effective June 27, 2008, any analysis of non-friable organically bound (NOB) material that is found to be negative via PLM testing, must have confirmation testing via Transmission Electron Microscopy (TEM) on one sample from each media; therefore, eleven (11) samples were analyzed by the lab, via TEM testing.

4.2 Survey Results

Samples were collected and tested from various suspect materials, as referenced in Appendix B, Asbestos Sample Log. Samples of cream-colored hallway sheet flooring, mottled yellow sheet flooring, wood-design sheet flooring, cream flooring squares, double-layer kitchen sheet flooring, swirled tan sheet flooring, brown carpet backing, green carpet backing, window caulk and roof-edge flashing caulk were verified as negative, via TEM analysis.

Appendix C contains a copy of the analytical results from the laboratory. of the analytical results from the laboratory.

4

TABLE 1 DILAPIDATED MOBILE HOME STRUCTURE 504 ATLANTIC STREET SUMTER, SOUTH CAROLINA ASBESTOS-CONTAINING MATERIALS (ACM)

Description	Location	Category (F/NF)	Approx. SF/LF
Silver Roof Sealant Material	Sheet Metal Roof Panels	NF – Cat. I – Good Condition	700 SF of Metal Roofing Panels

Note: F - Friable

NF - Non-Friable

EMERALD, INC., CONDUCTED THE SURVEY TO THE BEST OF ITS ABILITY, ADHERING TO INDUSTRY STANDARDS. THE QUANTITIES PROVIDED IN THIS REPORT ARE APPROXIMATE AND SHALL SERVE AS A BASIS FOR ABATEMENT BID SUBMITTALS. IF ADDITIONAL SUSPECT MATERIALS ARE IDENTIFIED DURING RENOVATION OR DEMOLITION ACTIVITY, THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE BUILDING OWNER'S REPRESENTATIVE.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the inspection of August 14, 2024, and the analytical results from the samples collected and tested by an independent laboratory, the dilapidated mobile home structure located at 504 Atlantic St. in Sumter, S.C., does contain non-friable ACM, as per Table 1. Such materials will have to be removed and properly disposed by a S.C. licensed abatement contractor per SC DHEC Bureau of Air Quality Asbestos Regulation 61-86.1 effective May 27, 2011, prior to demolition activities involving the asbestos-containing materials.

6.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection of August 14, 2024. Emerald, Inc., their representative and this report make no representation and/or assumptions as to past conditions or future occurrences. The information, conclusions and recommendations provided herein do not constitute as legal or medical advice. It is further understood that Emerald, Inc. makes no representations or warranties of any kind. Nor are such representations or warranties to be implied with respect to the data furnished. Emerald, Inc. assumes no responsibility with respect to the customers and its employees use thereof.

The information provided herein applies only to the subject property as it existed during Emerald, Inc.'s site visit. If this site's use and/or conditions change, information, observations and recommendations found herein would no longer apply. This report is intended to be used in its entirety. No excerpts may be taken to typify the findings of this survey. Emerald, Inc. shall not be liable for any special, consequential and/or exemplary damages resulting, in whole or in part, from the customer's use of the data provided. It was not within the scope of this investigation to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Our selection of sample locations and frequency is based upon our observations and the assumption that like materials in the same are homogeneous.

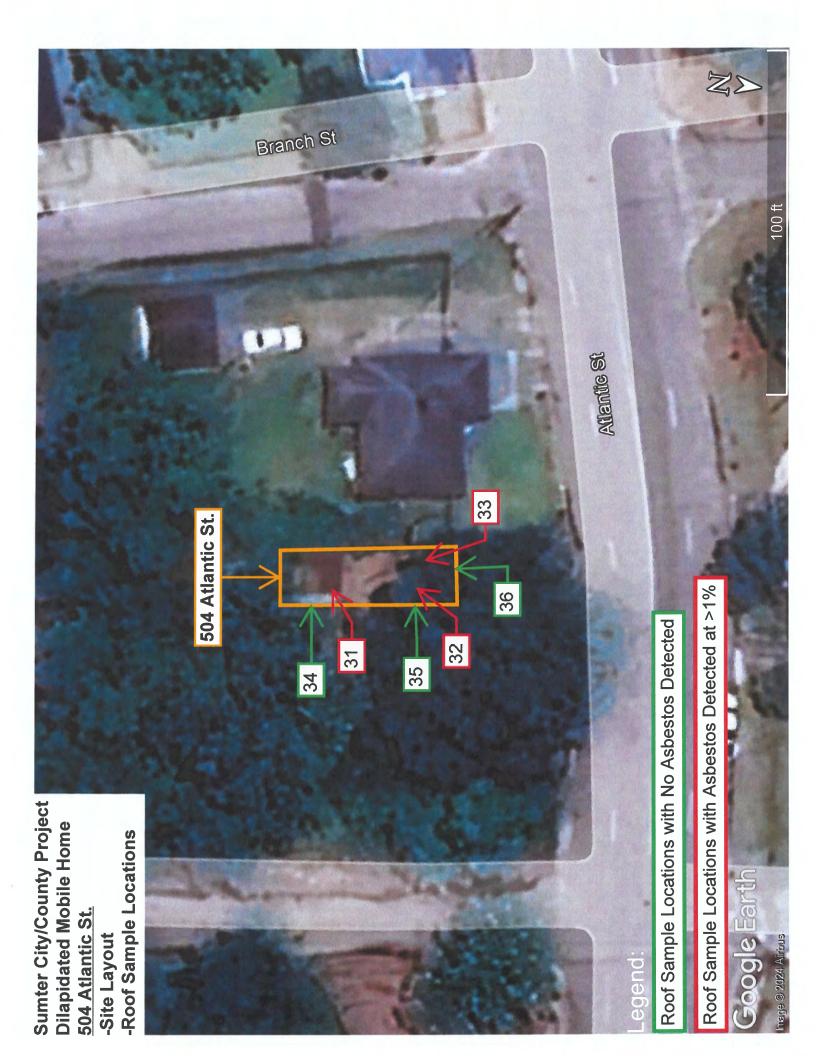
Emerald, Inc. conducted the survey to the best of its ability using the standards of the industry. In the event additional materials are found to contain asbestos, Emerald, Inc. shall not be liable for any failure of such findings during its initial survey.

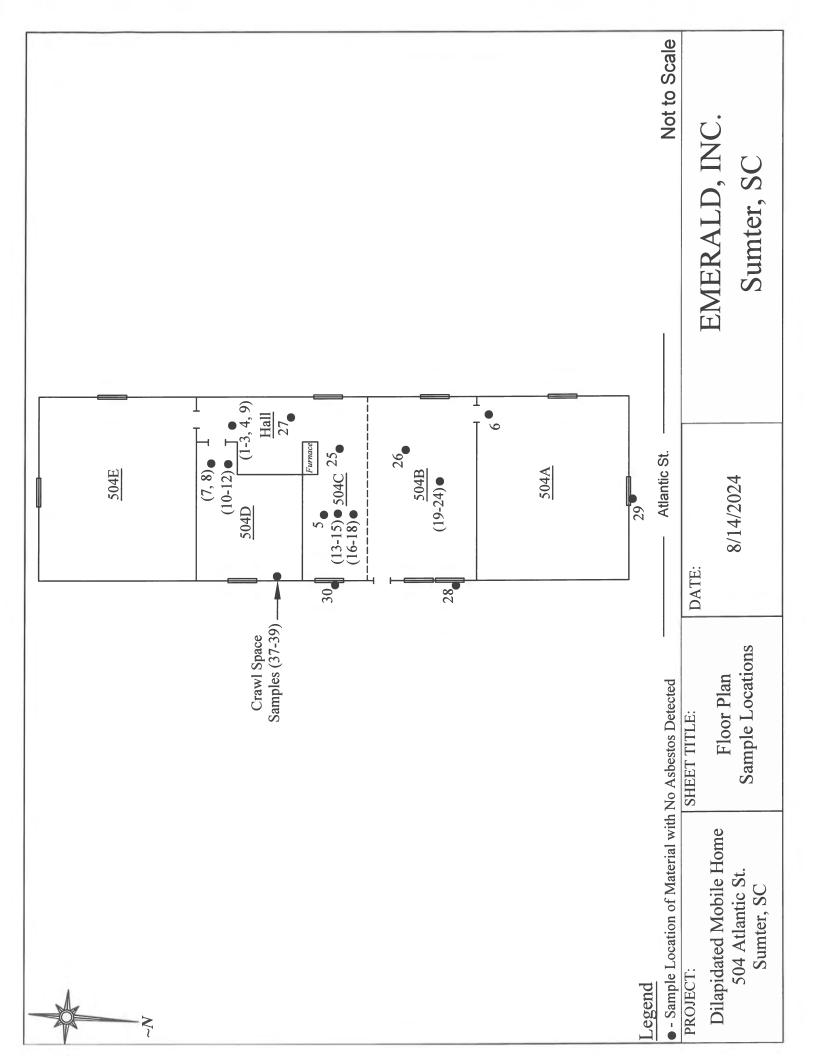
7

7.0 APPENDICES

APPENDIX A. Site Plan
APPENDIX B. Asbestos Sample Log
APPENDIX C. Chain of Custody & Analytical Results
APPENDIX D. Building Inspector Licenses
APPENDIX E. Site Photographs

APPENDIX A SITE PLAN





ASBESTOS SAMPLE LOG

APPENDIX B

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 504 Atlantic St. ADDRESS: 504 Atlantic St., Sumter, S.C.

DATE: <u>8/14/2024</u> INSPECTOR: <u>Dalton Reames</u>

7.614		LOCATION								POTI	ENTIAL	FOR FL	UTURE	DISTUI	POTENTIAL FOR FUTURE DISTURBANCE		
								APPROX.	0	CONTACT		VIBR	VIBRATION		AIR EROSION	OSION	
SAMPLE #	FLOOR	ROOM	EXACT	DESCRIPTION	CONDITION	TYPE	F/NF	SF/LF	н	۷	-	н	W	_	Ч Н	Σ	_
504-1			Top Layer	- - -													
504-2	First	Hall	of Sheet	Cream-colored, Iop-layer Sheet Flooring	ŋ	Σ	ΝF	60 SF	×			×			 ×		
504-3			Flooring														
504-4		Hall	Under	-													
504-5	First	Kitchen	Mood	Mottled Yellow, Swirl-pattern Sheet Flooring	ŋ	Σ	NF	696 SF	×			×			×	-	
504-6		504A	Panels													-	
504-7	1	504D	Top Layer														
504-8	First	504D		Dark Wood-pattern Sheet Flooring	ŋ	Σ	ΝF	124 SF	×			×			×		
504-9		Hall	Flooring														
504-10			Second														
504-11	First	504D	Layer of	Kestroom Cream-colored Flooring Squares	U	Σ	RF	64 SF	×			×			×		
504-12			Flooring														
504-13			Combined	Kitchen Area Double-layer Sheet													
504-14	First	504C	Top Layers	Flooring	U	Σ	NF	120 SF	×			×			×		
504-15			of Flooring	("Parquet" Stuck to 2nd Layer)													
504-16			Under														
504-17	First	504C	Flooring	Kitchen Area Swirled Tan-pattern Sheet Flooring	U	Σ	ΝF	120 SF	×			×			×		
504-18			Layer														
504-19																	
504-20	First	504B	Top Layer of Carpet	Backing of Brown Carpet	U	Σ	NF	180 SF	×			×			×		
504-21																	
																	ľ
<u>Condition</u> G= Good				<u>Type</u> S= Surface Tcl- Thorneal Contention		<u>E/NF</u> F= Fri	<u>F/NF</u> F= Friable Mc- Mon Friable			Potentia H= High	Potential for Future Disturbance H= High	uture D	<u> </u>	nce			
u= uamagea SD= Significantly Damaged	Damaged			N== Thermal Systems Insulation M= Miscellaneous						L= Low	0 חבו מו כ						

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 504 Atlantic St. ADDRESS: 504 Atlantic St., Sumter, S.C.

DATE: <u>8/14/2024</u> INSPECTOR: <u>Dalton Reames</u>

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URBAN	AIR	н		×			×			×			×			×			×					
E DIST	N	L																						bance
FUTUR	VIBRATION	Σ																						e Distur
POTENTIAL FOR FUTURE DISTURBANCE	N	н		×			×			×			×			×			×					Potential for Future Disturbance H= High M= Moderate L= Low
TENTI	Ъ	-																						<u>Potential for F</u> H= High M= Moderate L= Low
PC	CONTACT	Σ																						H= H= L= L
		н		×			×			×			×			×			×					
	APPROX.	SF/LF		180 SF			696 SF		140 LF on	10 Window	Units	700 SF of	Sheet Metal	Roofing		140 LF			696 SF					۵
		F/NF		NF			ш			NF			NF			NF			NF				Springer af	<u>E/NF</u> F= Friable NF= Non Friable
		TYPE		Σ			Σ			Σ			Σ			Σ			Σ					<u>E/NF</u> F= Fri NF= N
		CONDITION		U			U			U			U			U			IJ					
		DESCRIPTION		Backing of Green Carpet		-	Gypsum Ceiling Panels with Pre- fabricated Texture Surfacing			Exterior Window Frame Caulk			Silver Roof Sealant		and the second	koor-eage black riasning sealant Material			Cellulose-based, Sub-Tloor Sheathing Material				Asbestos detected at 2% in silver roof sealant.	<u>Type</u> S= Surface TSI= Thermal Systems Insulation M= Miscellaneous
	が一切	EXACT	Bottom	Layer of	Carpet		Ceiling			Frames			of			: Flashing			e or wood ate				2% in silve	
LOCATION		ROOM		504B		504C	504B	Hall		Window Frames			Sheet Metal Roof			Roof-edge Flashing		-	crawi space Underside of Wood Flooring Substrate				etected at	
A CONTRACT		FLOOR		First			First			Exterior			She			Roof			urawi space Floc				Asbestos d	ly Damaged
		SAMPLE #	504-22	504-23	504-24	504-25	504-26	504-27	504-28	504-29	504-30	504-31	504-32	504-33	504-34	504-35	504-36	504-37	504-38	504-39			Note:	<u>Condition</u> G= Good D= Damaged SD= Significantly Damaged

APPENDIX C

CHAIN OF CUSTODY & ANALYTICAL RESULTS



Attention: Ronny Lowder

Emerald, Inc.

PO Box 3050

2520 Tahoe Drive

Sumter, SC 29151

EMSL Analytical, Inc.

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

Project: Sumter County Project : 504 Atlantic St. (Sumter County)

EMSL Order: 022404670 Customer ID: EMER51 Customer PO: Project ID: Sumter County

 Phone:
 (803) 469-5454

 Fax:
 (803) 775-1970

 Received Date:
 08/15/2024 9:30 AM

 Analysis Date:
 08/23/2024 - 08/26/2024

 Collected Date:

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
504-3 022404670-0029	Hall Cream Sheet Flooirng	Gray/Tan Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
504-6 022404670-0030	Mottled Yellow Sheet Flooring	Gray/Tan/Green Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
504-9 022404670-0031	Wood Grain Sheet Flooring	Brown/Gray/White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
504-12 022404670-0032	Cream Flooring Square	Gray/Tan/Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
504-15- Top Flooring 022404670-0033	Kitchen Double-layer Sheet Flooring	Gray/Tan/Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
504-15 - Bottom Flooring 022404670-0034	Kitchen Double-layer Sheet Flooring	Gray/Black/Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
504-18 022404670-0035	Swirled Tan Sheet Flooring	Brown/Gray/Tan Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
504-21 022404670-0036	Brown Carpet - Backing	Brown/Gray/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
504-24 022404670-0037	Green Carpet - Backing	Brown/Gray/Green Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
504-30 022404670-0038	Window Caulk	Brown/Gray Non-Fibrous Homogeneous	100.0 Other	<0.15 Fibrous_Other	No Asbestos Detected
504-36 022404670-0039	Roof-edge Flashing Sealant	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or < 1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/26/2024 17:26:26

ASB_PLMEPANOB_0012_0002 Printed 8/26/2024 5:27:51PM

MSL	EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284	EMSL Order: Customer ID: Customer PO:	
and the state of the	Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com	Project ID:	Sumter County
Attention:	Ronny Lowder	Phone:	(803) 469-5454
	Emerald, Inc.	Fax:	(803) 775-1970
	2520 Tahoe Drive	Received Date:	08/15/2024 9:30 AM
	PO Box 3050	Analysis Date:	08/23/2024 - 08/26/2024
	Sumter, SC 29151	Collected Date:	
Project:	Sumter County Project : 504 Atlantic St. (Sumter County)		

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 (11)

the ho

Stephen Bennett, Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/26/2024 17:26:26

ASB_PLMEPANOB_0012_0002 Printed 8/26/2024 5:27:51PM

Page 2 of 2

EMSL	EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@ernsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:	Ronny Lowder	Phone:	(803) 469-5454
	Emerald, Inc.	Fax:	(803) 775-1970
	2520 Tahoe Drive	Received Date:	08/15/2024 9:30 AM
	PO Box 3050	Analysis Date:	08/19/2024
	Sumter, SC 29151	Collected Date:	
Project:	Sumter County Project : 504 Atlantic St. (Sumter County)		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes	itos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
504-1	Hall Cream Sheet Flooirng	Tan Fibrous	5% Cellulose 2% Glass	93% Non-fibrous (Other)	None Detected
022404670-0001		Heterogeneous			News Detected
504-2	Hall Cream Sheet Flooirng	Tan/Beige Fibrous	30% Cellulose 1% Glass	69% Non-fibrous (Other)	None Detected
022404670-0002		Heterogeneous			Alasa Datastad
504-4 022404670-0003	Mottled Yellow Sheet Flooring	Brown/Yellow/Gree n Fibrous Heterogeneous	30% Cellulose 5% Synthetic	65% Non-fibrous (Other)	None Detected
504-5	Mottled Yellow Sheet Flooring	Brown/Green/Gold Fibrous	40% Cellulose 3% Synthetic	57% Non-fibrous (Other)	None Detected
022404670-0004		Heterogeneous			
504-7	Wood Grain Sheet Flooring	Brown/White Non-Fibrous	2% Glass	98% Non-fibrous (Other)	None Detected
022404670-0005		Homogeneous			
504-8	Wood Grain Sheet Flooring	Brown/Gray/White Non-Fibrous	3% Glass	97% Non-fibrous (Other)	None Detected
022404670-0006		Homogeneous			
504-10	Cream Flooring Square	Gray/Yellow Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
022404670-0007		Homogeneous			
504-11	Cream Flooring Square	Gray/Black/Beige Non-Fibrous		10% Quartz 90% Non-fibrous (Other)	None Detected
022404670-0008		Homogeneous			N. D. Mard
504-13-Top Flooring	Kitchen Double-layer Sheet Flooring	Brown/Tan/Black Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
022404670-0009		Homogeneous	<u></u>		
504-13-Bottom Flooring 022404670-0009A	Kitchen Double-layer Sheet Flooring	Black/Beige Non-Fibrous Homogeneous		2% Quartz 10% Ca Carbonate 88% Non-fibrous (Other)	None Detected
	Kitchen Double-layer	Brown/Gray/Black		10% Quartz	None Detected
504-14-Top Flooring	Sheet Flooring	Non-Fibrous Homogeneous		90% Non-fibrous (Other)	NONE DELECTED
504-14-Bottom Flooring	Kitchen Double-layer Sheet Flooring	Gray/Black/Beige Non-Fibrous		10% Quartz 90% Non-fibrous (Other)	None Detected
022404670-0010A		Homogeneous			
504-16	Swirled Tan Sheet Flooring	Tan Non-Fibrous	2% Cellulose	98% Non-fibrous (Other)	None Detected
022404670-0011		Homogeneous			
504-17	Swirled Tan Sheet Flooring	Tan/Yellow/Beige Fibrous	3% Cellulose	97% Non-fibrous (Other)	None Detected
022404670-0012		Heterogeneous			
504-19	Brown Carpet - Backing	Brown/White Fibrous	5% Synthetic	95% Non-fibrous (Other)	None Detected
022404670-0013		Homogeneous	and the second second		
504-20 022404670-0014	Brown Carpet - Backing	Brown/White/Beige Fibrous Heterogeneous	<1% Cellulose 80% Synthetic	20% Non-fibrous (Other)	None Detected

Initial report from: 08/20/2024 13:18:43

EMSL Analytical, Inc.

EMSL

706 Gralin Street Kernersville, NC 27284

Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404670 Customer ID: EMER51 Customer PO:

Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
504-22	Green Carpet - Backing	Brown/Blue Fibrous	10% Synthetic	90% Non-fibrous (Other)	None Detected
022404670-0015		Homogeneous			Nene Detected
504-23	Green Carpet - Backing	Gray/Tan/Green Non-Fibrous	<1% Cellulose 85% Synthetic	15% Non-fibrous (Other)	None Detected
022404670-0016		Homogeneous			New Datastad
504-25-Texture	Gypsum Ceiling Panel	Gray/White Non-Fibrous Homogeneous		5% Quartz 10% Ca Carbonate 85% Non-fibrous (Other)	None Detected
	Gypsum Ceiling	Brown/White	10% Cellulose	90% Non-fibrous (Other)	None Detected
504-25-Gypsum Board	Panel	Fibrous Heterogeneous	<1% Glass	30 % Non-Indious (Other)	None Deleted
504-26-Texture	Gypsum Ceiling	Gray/White		5% Quartz	None Detected
504-20-Texture	Panel	Non-Fibrous		10% Ca Carbonate	
022404670-0018		Homogeneous		85% Non-fibrous (Other)	
504-26-Gypsum Board	Gypsum Ceiling Panel	Brown/Gray Fibrous	3% Cellulose <1% Glass	97% Non-fibrous (Other)	None Detected
022404670-0018A		Heterogeneous			
504-27-Texture	Gypsum Ceiling Panel	Gray/White Non-Fibrous	<1% Cellulose	5% Quartz 10% Ca Carbonate	None Detected
022404670-0019		Homogeneous		85% Non-fibrous (Other)	
504-27-Gypsum Board	Gypsum Ceiling Panel	Brown/Gray Fibrous	15% Cellulose 1% Glass	84% Non-fibrous (Other)	None Detected
022404670-0019A		Heterogeneous			
504-28 022404670-0020	Window Caulk	Gray/Black Non-Fibrous	2% Cellulose	98% Non-fibrous (Other)	None Detected
		Homogeneous			Name Detected
504-29	Window Caulk	Gray/Tan/Green Non-Fibrous	2% Cellulose <1% Synthetic	10% Ca Carbonate 88% Non-fibrous (Other)	None Detected
022404670-0021		Homogeneous			
504-31	Silver Roof Sealant	Silver Non-Fibrous	2% Cellulose	96% Non-fibrous (Other)	2% Chrysotile
022404670-0022		Homogeneous			
504-32	Silver Roof Sealant				Positive Stop (Not Analyzed)
022404670-0023					
504-34	Roof-edge Flashing Sealant	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
022404670-0024		Homogeneous			
504-35	Roof-edge Flashing Sealant	Brown/Black Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
022404670-0025		Homogeneous			
504-37	Sub-floor Sheathing Paper	Brown/Silver Fibrous	60% Cellulose	40% Non-fibrous (Other)	None Detected
022404670-0026		Homogeneous			
504-38	Sub-floor Sheathing Paper	Brown/Silver Fibrous	60% Cellulose	40% Non-fibrous (Other)	None Detected
022404670-0027		Homogeneous			
504-39	Sub-floor Sheathing Paper	Tan/Silver Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected
022404670-0028		Heterogeneous			



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404670 Customer ID: EMER51 Customer PO: Project ID: Sumter County

Analyst(s)

Jurnee West (18) Scott Combs (14)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction priot to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 08/20/2024 13:18:43



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

22404670 ĥ

P'HONE: F.A.X.

Company Name : Emer	ald, Inc.		EMSL Custo	mer ID:			
Street: P.O. Box 3050		City: Sumter State/Province: SC		nce: SC			
Zip/Postal Code: 29151		Country: US	Telephone #	803-469-54			
Report To (Name): Ronn	y Lowder		Please Prov	ide Results:	🗌 Fax 🗹 Email		
Email Address: rlowder@emeraldinc-us.com			Purchase Order:				
Project Name/Number: Sumter County Project 504 Atlantic St.			EMSL Project ID (Internal Use Only):				
U.S. State Samples Take			CT Samples: Commercial/Taxable Residential/Tax Exe			idential/Tax Exempt	
EMSL-Bill to: Same Different - If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party							
		Turnaround Time (TAT)					
3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week *For TEM Air 3 hr through 6 hr, please call ahead to schedule. "There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT You will be asked to sign an							
authorization form	for this service.						
FCM - Air Check if san	nples are	TEM - Air 4-4.5hr TAT (AHERA only)	TEM- Dust			
NIOSH 7400		AHERA 40 CFR, Part 763		Microvac - ASTM D 5755			
w/ OSHA 8hr. TWA		NIOSH 7402		Wipe - ASTM D6480			
PLM - Bulk (reporting lim	it)			Carpet S	Carpet Sonication (EPA 600/J-93/167)		
PLM EPA 600/R-93/116	6 (<1%)	☐ ISO 10312		Soil/Rock/Vermiculite			
PLM EPA NOB (<1%)		TEM - Bulk		PLM EPA 600/R-93/116 with milling prep (<1%)			
Point Count	(-0 -40/)			PLM EPA 600/R-93/116 with milling prep (<0 25%)			
400 (<0.25%) 1000		NYS NOB 198.4 (non-friable-NY)		TEM EPA 600/R-93/116 with milling prep (<0 1%)			
[400 (<0.25%) [1000 /		TEM Mass Analysis-EPA 600 sec. 2.5		TEM Qualitative via Drop Mount Prep			
NYS 198.1 (friable in NY)		TEM - Water: EPA 100.2		Cincinnati Method EPA 600/R-04/004 – PLM/TEM			
NYS 198.6 NOB (non-1		Fibers >10um Waste Drinking		(BC only) Other:			
NYS 198.8 SOF-V							
NIOSH 9002 (<1%)		All Fiber Sizes Waste					
Check For Positive St	op – Clearly	Identify Homogenous Group	p Filter	Pore Size (Ai	r Samples):0.8	um 0.45µm	
				Signatura	Della	and	
Samplers Name: Dalt	on Rea	mes	Samplers	olynature.	yanna		
	on Rea			Signature.	Volume/Area (Air) HA # (Bulk)	Oate/Time Sampled	
Samplers Name: Dalt Sample #		Sample Descripti	on	Signature.	Volume/Area (Air) HA # (Bulk)	Sampled	
			on				
		Sample Descripti	on			Sampled	
		Sample Descripti	on			Sampled	
		Sample Descripti	on			Sampled	
		Sample Descripti	on			Sampled	
Sample #	Descript	Sample Descripti ions on Following Page	on		HA # (Bulk)	Sampled 8/14/2024	
Sample # Client Sample # (s): 50		Sample Descripti ions on Following Page	on e	T	HA # (Bulk)	Sampled 8/14/2024	
Sample #	Descript	Sample Descripti ions on Following Page	on e		HA # (Bulk)	Sampled 8/14/2024	
Sample # Client Sample # (s): 50	Descript	Sample Descripti ions on Following Page	on e : <u>8/141</u>	T	HA # (Bulk)	Sampled 8/14/2024	
Sample # Client Sample # (s): 50 Relinquished (Client): Received (Lab):	Descript	Sample Descripti ions on Following Page i04-39 	on e : <u>8/141</u>	T	HA # (Bulk) Total # of Samples: 3 Time	Sampled 8/14/2024	
Sample # Client Sample # (s): 50 Relinquished (Client): Received (Lab):	Descript	Sample Descripti ions on Following Page i04-39 	on e : <u>8/141</u>	T	HA # (Bulk) Total # of Samples: 3 Time	Sampled 8/14/2024	
Sample # Client Sample # (s): 50 Relinquished (Client): Received (Lab):	Descript	Sample Descripti ions on Following Page 04-39 Date A Date	e : <u>8/141</u> : <u>8-15</u> 2	T	HA # (Bulk) Total # of Samples: 3 Time	Sampled 8/14/2024	
Sample # Client Sample # (s): 50 Relinquished (Client): Received (Lab):	Descript	Sample Descripti ions on Following Page 04-39 Date A Date	on e : <u>8/141</u>	T	HA # (Bulk) Total # of Samples: 3 Time	Sampled 8/14/2024	
Sample # Client Sample # (s): 50 Relinquished (Client): Received (Lab):	Descript 4-1 thru 5 2012 SUC uctions:	Sample Descripti ions on Following Page 04-39 Date A Date	e : <u>8/141</u> : <u>8-15</u> 2	T	HA # (Bulk) Total # of Samples: 3 Time	Sampled 8/14/2024	

4670



CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284

Client Sample # (s)	504-1 thru 504-39	Total Samples #:	39	Phone: (336) 992-1025
Relinquished:	Date:	Time:	1.00	Fax: (336) 992-4175
Received:	Date:	Time:	1	http://www.emsl.com
Relinquished:	Date:	Time:	- 2 - 200	
Received:	Date:	Time:		

SAMPLE NUMBER	SAMPLE DESCRIPTION	VOLUME (if applicable)	
504-1	Hall Cream Sheet Flooring		
504-2	н		
	71		
504-4	Mottled Yellow Sheet Flooring		
504-5	80		
	47		
504-7	Wood Grain Sheet Flooring		
504-8	FF		
	н		
504-10	Cream Flooring Square		
504-11	n		
	12		
504-13	Kitchen Double-layer Sheet Flooring		
504-14	" SSan	vale Both Layers	
	"		
504-16	Swirled Tan Sheet Flooring		
504-17	1)		
	10		
504-19	Brown Carpet - Backing		
504-20	"		
504-20	IN		
504-22	Green Carpet - Backing		
504-23	Green Carpet - Backing		
	м		
504-25	Gypsum Ceiling Panel		
504-26	Gypsum Ceiling Panel) " So male	All Layers	
504-27	"		
504-28	Window Caulk		
504-29	0		
	99		
504-31	Silver Roof Sealant		
504-32	B		
004 02	n		
504-34	Roof-edge Flashing Sealant		
	"		
504-35	11		
504-37	Sub-floor Sheathing Paper		
504-38	"		
504-39	11		
JU9-37			

2072

APPENDIX D

BUILDING INSPECTOR LICENSES

SCDHEC ISSUED Asbestos ID Card

RONNY LOWDER



CONSULTMP ASB-32201 CONSULTBI BI-01497 SUPERAHERA SA-00715

Expiration Date: 09/18/24 09/18/24 09/17/24

1



John Dalton Reames, Jr.



AIRSAMPLER CONSULTBI BI-00945 CONSULTPD SUPERAHERA SA-01252

Expiration Date: R AS-00287 11/07/24 BI-00945 11/06/24) PD-00200 08/07/25 A SA-01252 11/07/24 **APPENDIX E**

SITE PHOTOGRAPHS

Sumter City/County Project: 504 Atlantic St., Sumter, S.C.

Photo #4 View Depicting the Crawl Space Area



Photo #3 No Asbestos Detected in Roof-edge Flashing Sealant Material



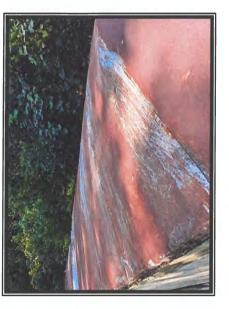


Photo #2 Asbestos Detected at 2% in Silver Sealant Material on Sheet Metal Roof





Photo #1 View Depicting the Mobile Home Structure



Photo #5 No Asbestos Detected in Resilient Flooring Layers





Photo #6 No Asbestos Detected in Carpet Layers



Photo #7 No Asbestos Detected in Gypsum Ceiling Panels

Photo #7

Photo #8 iypsum Ceiling Wood-paneled Interior Walls

Sumter City/County Project: 504 Atlantic St., Sumter, S.C.

Emerald, Inc. CONSULTING AND ENGINEERING SERVICES IN ENVIRONMENTAL AFFAIRS

2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE: www.emeraldinc-us.com TELEPHONE (803) 469-5454 FAX (803) 469-5465

ASBESTOS SURVEY REGARDING SUMTER CITY/COUNTY PROJECT DILAPIDATED MOBILE HOME STRUCTURE 902 MANNING AVENUE SUMTER, SOUTH CAROLINA



Prepared for:

City of Sumter P.O. Box 1449 Sumter, South Carolina 29151

Prepared by:

Emerald, Inc. P.O. Box 3050 Sumter, South Carolina 29151

Date of Inspection: August 15, 2024 Date of Report: August 28, 2024

FOREWORD

This report was prepared by Emerald, Inc. of Sumter, South Carolina, for the City of Sumter, regarding the dilapidated mobile home structure located at 902 Manning Ave. in Sumter, S.C. The contents of this report are confidential and intended for the use of the client only.

J. Dalton Reames, Jr., S.C. Licensed Building Inspector, conducted the inspection, and Ronny L. Lowder, S.C. Licensed Building Inspector and Management Planner, prepared this report. Any questions or comments concerning this report should be directed to Ronny L. Lowder at either (803) 469-5454 or via email at rlowder@emeraldincus.com.

J. Dalton Reames, Jr.

SC Licensed Building Inspector License Number BI-00945 Expiration Date: 11/06/24

SC Licensed AHERA Supervisor License Number SA-01252 Expiration Date: 11/07/24

SC Licensed Air Sampler License Number AS-00287 Expiration Date: 11/07/24

SC Licensed Project Designer License Number PD-00200 Expiration Date: 08/07/25

owder. CHMM

SC Licensed Building Inspector License Number BI-01497 Expiration Date: 09/18/24

SC Licensed AHERA Supervisor License Number SA-00715 Expiration Date: 09/17/24

SC Licensed Mgmt Planner License Number ASB-32201 Expiration Date: 09/18/24

TABLE OF CONTENTS

1.0	INTRODUCTION AND OBJECTIVE	1
2.0	SURVEY METHODOLOGY	1
3.0	HAZARD ASSESSMENT FACTORS (ASBESTOS)	3
3.1	Homogeneous Areas	3
3.2	Hazard Factors	3
4.0	ANALYSIS AND RESULTS	4
4.1	Laboratory Analysis	4
4.2	Survey Results	4
5.0	CONCLUSIONS AND RECOMMENDATIONS	6
6.0	ASSUMPTIONS AND LIMITATIONS	7
7.0	APPENDICES	8

1.0 INTRODUCTION AND OBJECTIVE

Emerald, Inc. was requested to conduct an Asbestos Survey of the vacant mobile home unit and standalone storage building located at 902 Manning Ave. in Sumter, S.C., to identify the presence of any asbestos-containing materials (ACM), prior to demolition activities. The inspection was authorized by Mr. John Macloskie, Codes Director, with the City of Sumter. The inspection included identification and assessment of the condition of suspect asbestos-containing materials, either friable or non-friable, on the interior and exterior portions of the structures.

This report is a compilation of the inspection and its results.

2.0 SURVEY METHODOLOGY

On August 15, 2024, Emerald, Inc. conducted an Asbestos Survey on the buildings at the stated address. J. Dalton Reames, Jr., South Carolina Licensed Building Inspector, conducted the inspection.

Estimated to have been prefabricated circa 1990 for residential purposes, the single-story mobile home structure contains approximately 540 square feet of interior space. The structure is significantly dilapidated, with areas too hazardous to access. The basic building construction is as follows:

- Wood Framing Built on a Metal Trailer Frame
 - Sheet Metal Exterior Siding
- Wood-framed Roof Structure
 - Sheet Metal Roofing Panels with Silver Sealant
- Wood Floor Substrate
 - Resilient Sheet Flooring Layers
 - Tacked Carpet

- Wood-framed Interior Walls
 - Covered by Cellulose-based Panels
- Wood Ceiling Framing
 - Covered by Cellulose-based Panels with Prefabricated Texture Surface
- Climate Control Equipment
 - Furnace Heating Unit
 - Foil-wrapped, Fiberglass-insulated Floor Ducts in Crawl Space

A standalone storage building, measuring approximately 10' x 8' with a ceiling height of approximately 7', is comprised of concrete masonry unit (CMU) blocks built on a concrete slab. A dilapidated, wooden roof structure is partially covered with rolled shingle layers.

Future use of the property, following demolition activities, is unknown.

The survey included a visual inspection to identify the presence of material suspected of containing asbestos. This identification was based on the experience and training of the inspector. A total of thirty (30) samples were collected during the survey for laboratory analysis, based upon the required EPA and SC DHEC sampling matrix. Samples were placed in individual containers, labeled and numbered according to the sampling schemes (902-1 through 902-30). Per SC DHEC Asbestos Regulations, the independent laboratory is required to sample all layers of each sample. As a result, twenty-one (21) samples were analyzed by the lab, via Polarized Light Microscopy (PLM) while utilizing Positive Stop, and six (6) samples were analyzed, via Transmission Electron Microscopy (TEM). Appendix B contains the Asbestos Survey Log kept during the inspection which identifies the samples collected by sample number, sample type, location and condition assessment, along with any comments. The samples were shipped

to EMSL Analytical, Inc. in Kernersville, North Carolina for analysis. Analysis and results are discussed in Section 4.0.

3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)

3.1 Homogeneous Areas

The sample collection was typically conducted by homogeneous materials, i.e., any materials of the same type regarding uniformity throughout in structure or make-up and appearance (color, texture, and/or date of construction/application). Homogeneous materials can be further classified as surfacing materials, thermal system insulation and miscellaneous materials. Miscellaneous materials include ceiling tiles, floor tiles, roofing, caulking, and glazing, etc.

3.2 Hazard Factors

The samples of suspect material collected were classified as either friable (F) or non-friable (NF). Friable means the material can be crumbled, pulverized, or reduced to powder by ordinary hand pressure. Materials initially determined to be non-friable can receive a reclassification of friable if the material is damaged, thereby providing an avenue for release of asbestos fibers. Friable asbestos-containing material (ACM) has been determined by EPA and OSHA to be a greater hazard (health risk) than non-friable ACM. In assessing the fiber release potential, the current condition of the suspect materials sampled was noted in the Asbestos Survey Log (Appendix B). The condition was denoted as good, damaged, or significantly damaged. Current condition is a factor used to assess the potential for fiber release. Other factors used to determine potential fiber release include air movement, surface type, and area activity as related to human occupancy.

3

4.0 ANALYSIS AND RESULTS

4.1 Laboratory Analysis

Bulk samples were analyzed by EMSL Analytical, Inc. using Polarized Light Microscopy (PLM) with Dispersion Staining Techniques (EPA Bulk Analysis Method 600/R-93/116). This method utilizes part of the bulk sample which is mounted on a slide and exposed to an oil of specific refractive index. This prepared slide is then subjected to a variety of optical tests.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of asbestos content are then determined through visual estimating. Although this is an estimate, any material containing greater than one percent of any type of asbestos is classified as ACM by the EPA. Any material classified as ACM must be handled accordingly.

Under the revised South Carolina Asbestos Regulation 61-86.1 effective June 27, 2008, any analysis of non-friable organically bound (NOB) material that is found to be negative via PLM testing, must have confirmation testing via Transmission Electron Microscopy (TEM) on one sample from each media; therefore, six (6) samples were analyzed by the lab, via TEM testing.

4.2 Survey Results

Samples were collected and tested from various suspect materials, as referenced in Appendix B, Asbestos Sample Log. Samples of green and brown-colored sheet flooring, tan sheet flooring, carpet backing, door frame caulk, and storage building shingle layers were verified as negative, via TEM analysis.

Appendix C contains a copy of the analytical results from the laboratory. of the analytical results from the laboratory.

4

TABLE 1 DILAPIDATED MOBILE HOME STRUCTURE 902 MANNING AVENUE SUMTER, SOUTH CAROLINA ASBESTOS-CONTAINING MATERIALS (ACM)

Description	Location	Category (F/NF)	Approx. SF/LF
Tan-colored Exterior Window Frame Caulk	Exterior Frames of Window Units	NF – Cat. I – Good Condition	80 LF
Brown-colored Roof-edge Flashing Sealant	Under the Metal Roof Flashing along the Perimeter Edge of the Roof Structure	NF – Cat. I – Good Condition	114 LF
Silver Roof Sealant	Surface of Metal Roof Sections	NF – Cat. I – Good Condition	540 SF of Metal Roof Sections

Note: F - Friable

NF - Non-Friable

EMERALD, INC., CONDUCTED THE SURVEY TO THE BEST OF ITS ABILITY, ADHERING TO INDUSTRY STANDARDS. THE QUANTITIES PROVIDED IN THIS REPORT ARE APPROXIMATE AND SHALL SERVE AS A BASIS FOR ABATEMENT BID SUBMITTALS. IF ADDITIONAL SUSPECT MATERIALS ARE IDENTIFIED DURING RENOVATION OR DEMOLITION ACTIVITY, THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE BUILDING OWNER'S REPRESENTATIVE.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the inspection of August 15, 2024, and the analytical results from the samples collected and tested by an independent laboratory, the dilapidated mobile home structure located at 902 Manning Ave. in Sumter, S.C., does contain non-friable ACM, as per Table 1. Such materials will have to be removed and properly disposed by a S.C. licensed abatement contractor per SC DHEC Bureau of Air Quality Asbestos Regulation 61-86.1 effective May 27, 2011, prior to demolition activities involving the asbestos-containing materials.

6.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection of August 15, 2024. Emerald, Inc., their representative and this report make no representation and/or assumptions as to past conditions or future occurrences. The information, conclusions and recommendations provided herein do not constitute as legal or medical advice. It is further understood that Emerald, Inc. makes no representations or warranties of any kind. Nor are such representations or warranties to be implied with respect to the data furnished. Emerald, Inc. assumes no responsibility with respect to the customers and its employees use thereof.

The information provided herein applies only to the subject property as it existed during Emerald, Inc.'s site visit. If this site's use and/or conditions change, information, observations and recommendations found herein would no longer apply. This report is intended to be used in its entirety. No excerpts may be taken to typify the findings of this survey. Emerald, Inc. shall not be liable for any special, consequential and/or exemplary damages resulting, in whole or in part, from the customer's use of the data provided. It was not within the scope of this investigation to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Our selection of sample locations and frequency is based upon our observations and the assumption that like materials in the same are homogeneous.

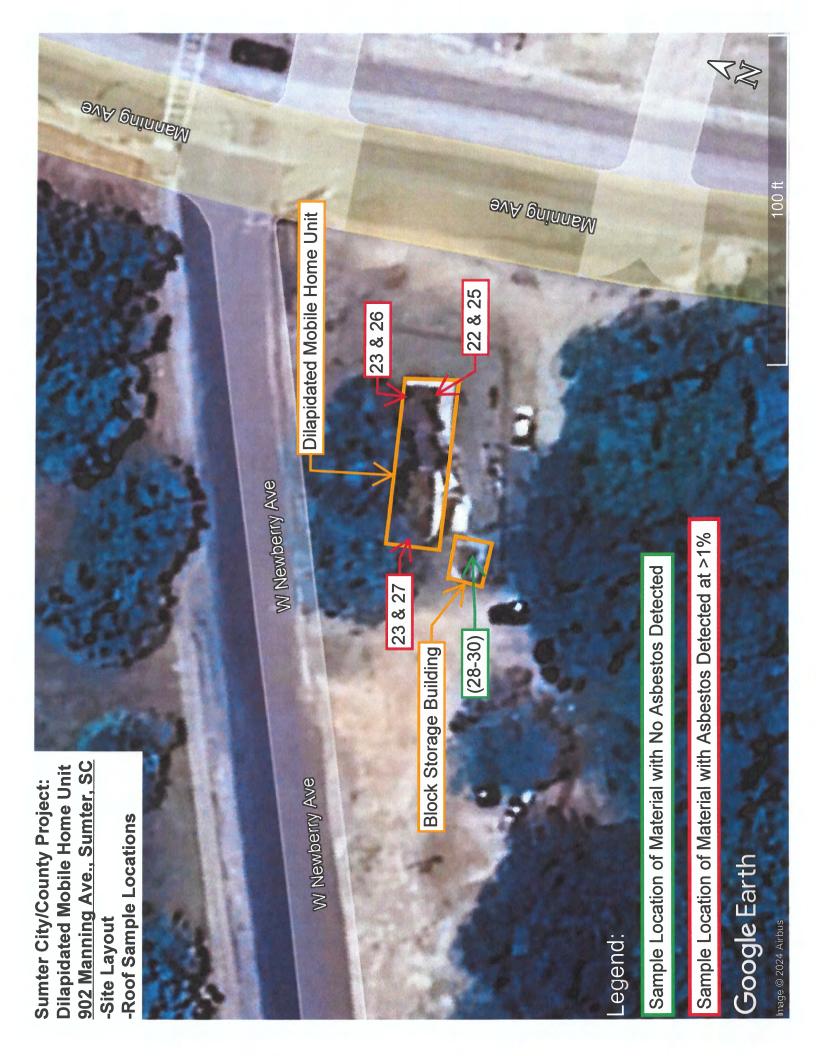
Emerald, Inc. conducted the survey to the best of its ability using the standards of the industry. In the event additional materials are found to contain asbestos, Emerald, Inc. shall not be liable for any failure of such findings during its initial survey.

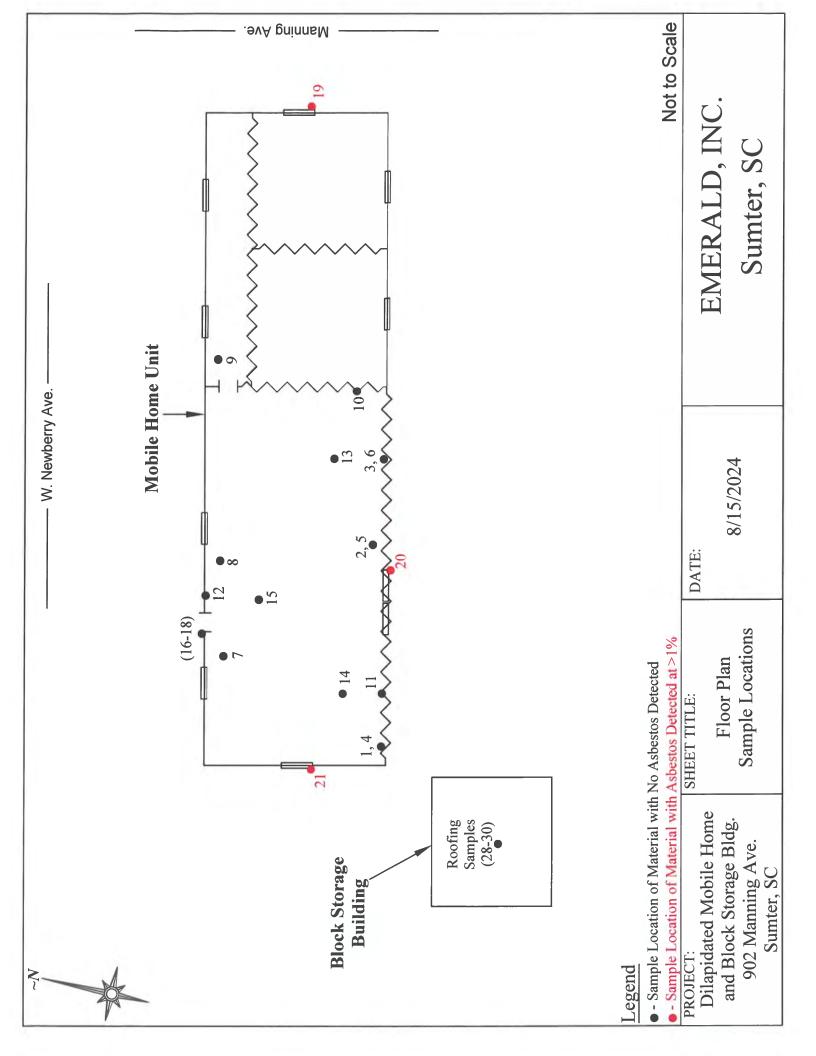
7

7.0 APPENDICES

APPENDIX A.	Site Plan
APPENDIX B.	Asbestos Sample Log
APPENDIX C.	Chain of Custody & Analytical Results
APPENDIX D.	Building Inspector Licenses
APPENDIX E.	Site Photographs

APPENDIX A SITE PLAN





APPENDIX B

ASBESTOS SAMPLE LOG

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 902 Manning Ave. ADDRESS: 902 Manning Ave., Sumter, S.C.

DATE: <u>8/15/2024</u> INSPECTOR: <u>Dalton Reames</u>

EMERALD, INC. ASBESTOS SAMPLE LOG

PROJECT NAME: Sumter City/County Project: 902 Manning Ave. ADDRESS: 902 Manning Ave., Sumter, S.C.

DATE: <u>8/15/2024</u> INSPECTOR: <u>Dalton Reames</u>

ANCE	AIR EROSION	ML																	
POTENTIAL FOR FUTURE DISTURBANCE	È	H		×			×			×									9
TURE D	VIBRATION	Σ						-											<u>Potential for Future Disturbance</u> H= High M= Moderate L= Low
FOR FU	VIBR	I		×			×			×									uture Di
ENTIAL		_																	<u>Potential for F</u> H= High M= Moderate L= Low
POTI	CONTACT	Σ																	<u>Potentia</u> H= High M= Mod L= Low
	CC	н		×			×			×									
	APPROX.	SF/LF		114 LF			540 SF			80 SF									0)
		F/NF		NF			NF			ш									<u>E/NE</u> F= Friable NF= Non Friable
		TYPE		Σ			Σ			Σ									<u>E/NF</u> F= Fri NF= N
		CONDITION		U			IJ			۵				-					
		DESCRIPTION		Dark Brown-colored Roof-edge Flashing Caulk			Silver Roof Sealant			Block Building Roof Shingle Layers								Red characters indicate materials with asbestos detected at >1%.	<u>Type</u> S= Surface TSI= Thermal Systems Insulation M= Miscellaneous
		EXACT		Flashing						Roof								te materia	
LOCATION		ROOM		Roof-edge Flashing			Metal Roof		-	tuilding								ters indica	
		FLOOR		Roof			-			Standalone block Storage Building								Red charac	tly Damaged
		SAMPLE #	902-22	902-23	902-24	902-25	902-26	902-27	902-28	902-29	902-30							Note:	<u>Condition</u> G= Good D= Damaged SD= Significantly Damaged

APPENDIX C

CHAIN OF CUSTODY & ANALYTICAL RESULTS



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404734 Customer ID: EMER51 Customer PO: Project ID: Sumter County

_			
	Attention:	Ronny Lowder	Phone:
		Emerald, Inc.	Fax:
		2520 Tahoe Drive	Received Date:
		PO Box 3050	Analysis Date:
		Sumter, SC 29151	Collected Date:
	Project:	Sumter County Project : 902 Manning Ave. (Sumter County)	

Phone: (803) 469-5454 Fax: (803) 775-1970 Received Date: 08/19/2024 10:40 AM Analysis Date: 08/27/2024 Collected Date:

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
902-3 022404734-0023	Green & Brown Sheet Flooring	Brown/Black/Green Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
902-6 022404734-0024	Tan Sheet Flooring	Gray/Tan/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
902-9 022404734-0025	Carpet Backing	Brown/Gray/Clear Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
902-18 022404734-0026	Door Caulk	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
902-30-Brown Shingle 022404734-0027	Block Bldg. Rolled Shingles	Brown/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
902-30-Gray Shingle 022404734-0028	Block Bldg. Rolled Shingles	Gray/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Stephen Bennett (6)

In his

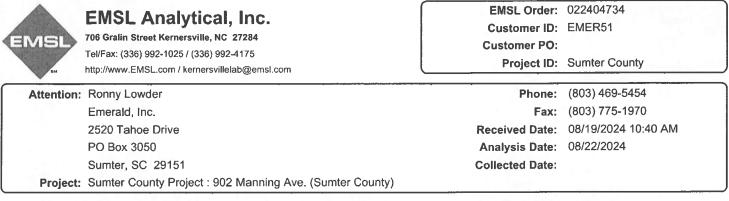
Stephen Bennett, Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/28/2024 08:36:35

ASB_PLMEPANOB_0012_0002 Printed 8/28/2024 8:38:01AM



Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
902-1	Green & Brown Sheet Flooring	Brown/Gray/Green Fibrous	3% Cellulose 20% Synthetic	77% Non-fibrous (Other)	None Detected
022404734-0001		Heterogeneous			
902-2	Green & Brown Sheet Flooring	Brown/Black/Green Fibrous	15% Cellulose <1% Glass	85% Non-fibrous (Other)	None Detected
022404734-0002		Heterogeneous			
902-4	Tan Sheet Flooring	Gray/Tan/Beige Fibrous	30% Cellulose 1% Glass	69% Non-fibrous (Other)	None Detected
022404734-0003		Heterogeneous			
902-5	Tan Sheet Flooring	Beige Fibrous	20% Cellulose 1% Glass	79% Non-fibrous (Other)	None Detected
022404734-0004		Heterogeneous			
902-7	Carpet Backing	White/Beige/Clear Fibrous	<1% Cellulose 10% Synthetic	90% Non-fibrous (Other)	None Detected
022404734-0005		Heterogeneous			
902-8	Carpet Backing	White/Beige Fibrous	60% Synthetic	40% Non-fibrous (Other)	None Detected
022404734-0006		Heterogeneous			
902-10	Interior Wall Panels	Brown/Gray/Tan Fibrous	97% Cellulose	3% Non-fibrous (Other)	None Detected
022404734-0007		Heterogeneous			
902-11	Interior Wall Panels	Brown/Gray/Tan Fibrous	97% Cellulose	3% Non-fibrous (Other)	None Detected
022404734-0008		Heterogeneous			
902-12	Interior Wall Panels	Brown/Gray/Tan Fibrous	90% Cellulose	10% Non-fibrous (Other)	None Detected
022404734-0009		Heterogeneous			
902-13	Ceiling Board w/ Textrue	Brown/White Fibrous	97% Cellulose	3% Non-fibrous (Other)	None Detected
022404734-0010		Heterogeneous			
902-14	Ceiling Board w/ Textrue	Brown/White Fibrous	97% Cellulose	3% Non-fibrous (Other)	None Detected
022404734-0011		Heterogeneous			
902-15	Ceiling Board w/ Textrue	Brown/Tan/White Fibrous	90% Cellulose	3% Ca Carbonate 7% Non-fibrous (Other)	None Detected
022404734-0012		Heterogeneous			· · · · · · · · · · · · · · · · · · ·
902-16	Door Caulk	Gray Non-Fibrous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
022404734-0013		Homogeneous			
902-17	Door Caulk	Gray Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
022404734-0014		Homogeneous			
902-19	Window Caulk	Brown/Tan Fibrous	1% Cellulose	10% Ca Carbonate 84% Non-fibrous (Other)	5% Chrysotile
022404734-0015		Homogeneous			
902-20	Window Caulk				Positive Stop (Not Analyzed)
022404734-0016					

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EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404734 Customer ID: EMER51 Customer PO:

Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbesto	5	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
902-22 022404734-0017	Roof-edge Flashing Caulk	Brown/Black Fibrous Homogeneous	3% Cellulose	94% Non-fibrous (Other)	3% Chrysotile
902-23	Roof-edge Flashing Caulk				Positive Stop (Not Analyzed)
902-25 022404734-0019	Metal Roof Sealant	Gray/White/Beige Non-Fibrous Homogeneous	<1% Cellulose 1% Fibrous (Other)	20% Ca Carbonate 77% Non-fibrous (Other)	2% Chrysotile
902-26	Metal Roof Sealant				Positive Stop (Not Analyzed)
022404734-0020					
902-28-Brown Shingle	Block Bldg. Rolled Shingles	Brown/Tan/Black Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
902-28-Gray Shingle	Block Bldg. Rolled Shingles	Gray/Black Fibrous Heterogeneous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
902-29-Brown Shingle	Block Bldg. Rolled Shingles	Brown/Tan/Black Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
902-29-Gray Shingle	Block Bldg. Rolled Shingles	Gray/Black Fibrous Heterogeneous	5% Glass	95% Non-fibrous (Other)	None Detected

Analyst(s)

Bobby Wheatley (8) Scott Combs (13)

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Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report mat not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 08/23/2024 08:12:59

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

224047.24

PHONE: FAX:

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Company Name : Eme	EMSL Customer ID:							
Street: P.O. Box 3050			City: Sumter			State/Provin	nce: SC	
Zip/Postal Code: 29151				803-469-54		Fax #: 803-		
Report To (Name): Ronn	y Lowder		Please Prov			🗹 Email		
Email Address: rlowder		nc-us.com	Purchase Or	rder:				
Project Name/Number: S	umter County F		EMSL Proje	ct ID (Internal	Use Only)		
U.S. State Samples Take							dential/Tax Exempt	
	EW9L-D	III to: 🔽 Same 🔲 Different - If Third Party Billing requires write				15		
		Turnaround Time (TAT)	And a state of the					
3 Hour 6	Hour [24 Hour 48 Hour ead to schedule.*There is a premium	charge for 3 Ho		6 Hour	el ILTAT. You		
authorization form	for this service.	Analysis completed in accordance w	with EMSL's Terr	ns and Condition	ns located in	the Analytical	Price Guide.	
PCM - Air Check if sar from NY	mples are	TEM - Air 4-4.5hr TAT (A	HERA only)	TEM- Dust				
NIOSH 7400		AHERA 40 CFR, Part 763	1	Microvad	- ASTM	D 5755		
w/ OSHA Bhr. TWA		NIOSH 7402		Wipe - A	STM D64	80		
PLM - Bulk (reporting lin		EPA Level II				(EPA 600/J-	93/167)	
PLM EPA 600/R-93/11	6 (<1%)	ISO 10312		Soil/Rock/				
PLM EPA NOB (<1%)		TEM - Bulk					nilling prep (<1%)	
Point Count 400 (<0.25%) 1000	(<0.1%)	NYS NOB 198,4 (non-friat	e-NY)				nilling prep (<0.25%) nilling prep (<0.1%)	
Point Count w/Gravimetric		Chatfield SOP				ia Filtration F		
400 (<0.25%) 1000	(<0.1%)	TEM Mass Analysis-EPA	600 sec. 2.5			ia Drop Mou		
NYS 198.1 (friable in N	۱Y)	TEM - Water: EPA 100.2	Cincinnati Method EPA 600/R-04/004 – PLM/TEM					
NYS 198.6 NOB (non-	friable-NY)	Fibers >10µm 🖾 Waste	Other:					
NYS 198.8 SOF-V		All Fiber Sizes Waste						
NIOSH 9002 (<1%)								
		Identify Homogenous Group		Pore Size (A		2000	Ω	
Samplers Name: Dall		mes	Samplers	Signature:		/Area (Alr)	Date/Time	
Sample #		Sample Description	on			(Bulk)	Sampled	
	Descript	ions on Following Page					8/15/2024	
		······································						
Client Sample # (s): 90	02-30 -	,		Total # of	Samples:	30		
Relinquished (Client):	<u>8/14</u>	2024		Time	: 0900			
Received (Lab):	8-14-7	24		Time	11940			
Comments/Special Instructions:								
Note: Sumter County Project								
			0					
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Controlled Document - Asbestos COC		01		\frown	5		\frown	
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Time:

Time:

Time:

Time:



Relinquished: ______

Relinquished:

Received:

CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

Date:

Date:

Date:

Date:

Client Sample # (s) 902-1 thru 902-30 Total Samples #:

EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284

Phone. (336) 992-1025 Fax: (336) 992-4175 http://www.emsl.com

SAMPLE NUMBER	SAMPLE DESCRIPTION	VOLUME (if applicable)
902-1	Green & Brown Sheet Flooring	
902-2	10	
	v	
902-4	Tan Sheet Flooring	
902-5	H	
	н	
902-7	Carpet Backing	
902-8	н	
	Н	
902-10	Interior Wall Panels	
902-11	" > Sample All	por s
902-12		*
902-13	Ceiling Board w/ Texture	
902-14		Lavers
902-15	N) I	2
902-16	Door Caulk	
<u>902-17</u>	10	
100 A	11	
902-19	Window Caulk	
902-20	U	
	11	
902-22	Roof-edge Flashing Caulk	
902-23		
	0	
902-25	Metal Roof Sealant	· · · · · · · · · · · · · · · · · · ·
902-26	H	
902-28	Block Bldg. Rolled Shingles	
902-29	" Sample Bo	th Layers

2 2 2

APPENDIX D

BUILDING INSPECTOR LICENSES

SCDHEC ISSUED Asbestos ID Card

RONNY LOWDER



Expiration Date: CONSULTMP ASB-32201 09/18/24 CONSULTBI BI-01497 09/18/24 SUDEPALIER * SUPERAHERA SA-00715

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09/17/24

1



John Dalton Reames, Jr.



AIRSAMPLER CONSULTBI CONSULTPD SUPERAHERA	AS-00287 BI-00945 PD-00200 SA-01252	Expiration Date: 11/07/24 11/06/24 08/07/25 11/07/24
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APPENDIX E

SITE PHOTOGRAPHS

Sumter City/County Project: 902 Manning Ave., Sumter, S.C.

Photo #4 Asbestos Detected at 3% in Brown-colored Roof-edge Flashing Sealant



Photo #3 Asbestos Detected at 2% in Silver Roof Sealant Material





Photo #2 North-facing View Depicting the Significantly Dilapidated State of the Mobile Home Unit

Photo #1 Southwest-facing View of the Mobile Home Structure



Sumter City/County Project: 902 Manning Ave., Sumter, S.C.

Photo #8 No Asbestos Detected in Ceiling Panels with Textured Surface



Photo #7 No Asbestos Detected in Tannish Gray Carpet

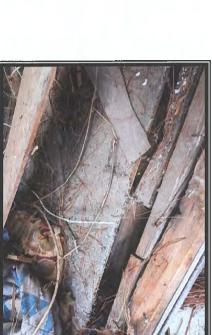




Photo #6 No Asbestos Detected in Tan-colored or Green and Brown-colored Sheet Flooring

Photo #5 Asbestos Detected at 5% in Tan-colored Window Frame Sealant Material



Photo #12 No Asbestos Detected in Roofing Layers Asso-ciated with the Block Storage Building

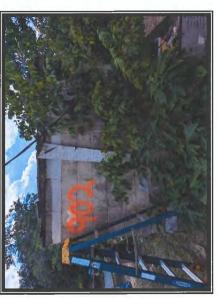


Photo #11 View Depicting the Standalone Block Storage Building



Photo #10 View Depicting Dilapidated State of the Mobile Home's Interior

Photo #9 No Asbestos Detected in Cellulose-based Wall Panels







2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE: www.emeraldinc-us.com TELEPHONE (803) 469-5454 FAX (803) 469-5465

ASBESTOS SURVEY REGARDING SUMTER CITY/COUNTY PROJECT DILAPIDATED RESIDENTIAL BUILDING 915 FRANKLIN LANE SUMTER, SOUTH CAROLINA



Prepared for:

City of Sumter P.O. Box 1449 Sumter, South Carolina 29151

Prepared by:

Emerald, Inc. P.O. Box 3050 Sumter, South Carolina 29151

Date of Inspection: August 14, 2024 Date of Report: August 27, 2024

FOREWORD

This report was prepared by Emerald, Inc. of Sumter, South Carolina, for the City of Sumter, regarding the dilapidated residential building located at 915 Franklin Ln. in Sumter, S.C. The contents of this report are confidential and intended for the use of the client only.

J. Dalton Reames, Jr., S.C. Licensed Building Inspector, conducted the inspection, and Ronny L. Lowder, S.C. Licensed Building Inspector and Management Planner, prepared this report. Any questions or comments concerning this report should be directed to Ronny L. Lowder at either (803) 469-5454 or via email at rlowder@emeraldincus.com.

J. Dalton Reames. Jr.

SC Licensed Building Inspector License Number BI-00945

Expiration Date: 11/06/24

SC Licensed AHERA Supervisor License Number SA-01252 Expiration Date: 11/07/24

SC Licensed Air Sampler License Number AS-00287 Expiration Date: 11/07/24

SC Licensed Project Designer License Number PD-00200 Expiration Date: 08/07/25

Lowder, CHMM

SC Licensed Building Inspector License Number BI-01497 Expiration Date: 09/18/24

SC Licensed AHERA Supervisor License Number SA-00715 Expiration Date: 09/17/24

SC Licensed Mgmt Planner License Number ASB-32201 Expiration Date: 09/18/24

TABLE OF CONTENTS

INTRODUCTION AND OBJECTIVE	1
SURVEY METHODOLOGY	1
HAZARD ASSESSMENT FACTORS (ASBESTOS)	3
Homogeneous Areas	3
Hazard Factors	3
ANALYSIS AND RESULTS	3
Laboratory Analysis	3
Survey Results	4
CONCLUSIONS AND RECOMMENDATIONS	6
ASSUMPTIONS AND LIMITATIONS	7
APPENDICES	8
	SURVEY METHODOLOGY

1.0 INTRODUCTION AND OBJECTIVE

Emerald, Inc. was requested to conduct an Asbestos Survey of the vacant, significantly collapsed, residential structure located at 915 Franklin Ln. in Sumter, S.C., to identify the presence of any asbestos-containing materials (ACM), prior to demolition activities. The inspection was authorized by Mr. John Macloskie, Codes Director, with the City of Sumter. The inspection included identification and assessment of the condition of suspect asbestos-containing materials, either friable or non-friable, on the interior and exterior portions of the structure.

This report is a compilation of the inspection and its results.

2.0 SURVEY METHODOLOGY

On August 14, 2024, Emerald, Inc. conducted an Asbestos Survey on the building at the stated address. J. Dalton Reames, Jr., South Carolina Licensed Building Inspector, conducted the inspection.

Estimated to have been constructed circa 1950 for residential purposes, the singlestory structure contains approximately 900 square feet of interior space. With almost total collapse of the wooden A-framed roof structure, significant portions of the building materials lay in debris piles throughout the footprint of the structure. Much of the building is in hazardous condition. The basic building construction is as follows:

- Concrete Masonry Unit (CMU) Exterior Walls
- Collapsed Wooden Roof Structure
 - Roofing Shingles and Asbestos-containing Felt Layers
- Floor Substrates
 - Collapsed Wood Flooring over Earthen Crawl Space
 - o Concrete Sections on Concrete Piers

- Interior Walls
 - Remnant, Asbestos-containing Sheetrock over Wood Framework
 - Bare CMU Blocks
 - Wood Panels over Wood Framework
- Collapsed Sheetrock Ceilings (Asbestos-containing) in Debris Piles
- No Climate Control System Observed

Future use of the property, following demolition activities, is unknown.

The survey included a visual inspection to identify the presence of material suspected of containing asbestos. This identification was based on the experience and training of the inspector. A total of eleven (11) samples were collected during the survey for laboratory analysis, based upon the required EPA and SC DHEC sampling matrix. Samples were placed in individual containers, labeled and numbered according to the sampling schemes (915-1 through 915-11). Per SC DHEC Asbestos Regulations, the independent laboratory is required to sample all layers of each sample. As a result, fourteen (14) samples were analyzed by the lab, via Polarized Light Microscopy (PLM) while utilizing Positive Stop, and one (1) sample was analyzed, via Transmission Electron Microscopy (TEM). Appendix B contains the Asbestos Survey Log kept during the inspection which identifies the samples collected by sample number, sample type, location and condition assessment, along with any comments. The samples were shipped to EMSL Analytical, Inc. in Kernersville, North Carolina for analysis. Analysis and results are discussed in Section 4.0.

3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)

3.1 Homogeneous Areas

The sample collection was typically conducted by homogeneous materials, i.e., any materials of the same type regarding uniformity throughout in structure or make-up and appearance (color, texture, and/or date of construction/application). Homogeneous materials can be further classified as surfacing materials, thermal system insulation and miscellaneous materials. Miscellaneous materials include ceiling tiles, floor tiles, roofing, caulking, and glazing, etc.

3.2 Hazard Factors

The samples of suspect material collected were classified as either friable (F) or non-friable (NF). Friable means the material can be crumbled, pulverized, or reduced to powder by ordinary hand pressure. Materials initially determined to be non-friable can receive a reclassification of friable if the material is damaged, thereby providing an avenue for release of asbestos fibers. Friable asbestos-containing material (ACM) has been determined by EPA and OSHA to be a greater hazard (health risk) than non-friable ACM. In assessing the fiber release potential, the current condition of the suspect materials sampled was noted in the Asbestos Survey Log (Appendix B). The condition was denoted as good, damaged, or significantly damaged. Current condition is a factor used to assess the potential for fiber release. Other factors used to determine potential fiber release include air movement, surface type, and area activity as related to human occupancy.

4.0 ANALYSIS AND RESULTS

4.1 Laboratory Analysis

Bulk samples were analyzed by EMSL Analytical, Inc. using Polarized Light

Microscopy (PLM) with Dispersion Staining Techniques (EPA Bulk Analysis Method 600/R-93/116). This method utilizes part of the bulk sample which is mounted on a slide and exposed to an oil of specific refractive index. This prepared slide is then subjected to a variety of optical tests.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of asbestos content are then determined through visual estimating. Although this is an estimate, any material containing greater than one percent of any type of asbestos is classified as ACM by the EPA. Any material classified as ACM must be handled accordingly.

Under the revised South Carolina Asbestos Regulation 61-86.1 effective June 27, 2008, any analysis of non-friable organically bound (NOB) material that is found to be negative via PLM testing, must have confirmation testing via Transmission Electron Microscopy (TEM) on one sample from each media; therefore, one (1) sample was analyzed by the lab, via TEM testing.

4.2 Survey Results

Samples were collected and tested from various suspect materials, as referenced in Appendix B, Asbestos Sample Log. A sample of the roofing shingles was verified as negative, via TEM analysis.

Appendix C contains a copy of the analytical results from the laboratory. of the analytical results from the laboratory.

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TABLE 1 DILAPIDATED RESIDENTIAL BUILDING 915 FRANKLIN LANE SUMTER, SOUTH CAROLINA REGULATED ASBESTOS-CONTAINING MATERIALS (RACM)

Description	Location	Category (F/NF)	Approx. SF/LF
Roofing Felt	 Remnant Roof Sections Collapsed Stoop Roof Feature Debris Scattered throughout the Footprint of the Building 	F – Due to Significantly Damaged Condition	1,250 SF / 313 Cubic Feet
Sheetrock with Joint Compound Wall and Ceiling System	 Remnant Wall Sections Remnants along Ceiling Joists Debris Scattered throughout the Footprint of the Building 	F – Due to Significantly Damaged Condition	2,500 SF / 625 Cubic Feet

Note: F - Friable

NF - Non-Friable

(1) - For reference regarding potential outdoor abatement and demolition activities with RACM, the total amount of building materials is approximately 3,600 cubic feet.

EMERALD, INC., CONDUCTED THE SURVEY TO THE BEST OF ITS ABILITY, ADHERING TO INDUSTRY STANDARDS. THE QUANTITIES PROVIDED IN THIS REPORT ARE APPROXIMATE AND SHALL SERVE AS A BASIS FOR ABATEMENT BID SUBMITTALS. IF ADDITIONAL SUSPECT MATERIALS ARE IDENTIFIED DURING RENOVATION OR DEMOLITION ACTIVITY, THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE BUILDING OWNER'S REPRESENTATIVE.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the inspection of August 14, 2024, and the analytical results from the samples collected and tested by an independent laboratory, the dilapidated residential building located at 915 Franklin Ln. in Sumter, S.C., does contain friable RACM, as per Table 1. Such materials will have to be removed and properly disposed by a S.C. licensed abatement contractor per SC DHEC Bureau of Air Quality Asbestos Regulation 61-86.1 effective May 27, 2011, prior to demolition activities involving the asbestos-containing materials.

6.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection of August 14, 2024. Emerald, Inc., their representative and this report make no representation and/or assumptions as to past conditions or future occurrences. The information, conclusions and recommendations provided herein do not constitute as legal or medical advice. It is further understood that Emerald, Inc. makes no representations or warranties of any kind. Nor are such representations or warranties to be implied with respect to the data furnished. Emerald, Inc. assumes no responsibility with respect to the customers and its employees use thereof.

The information provided herein applies only to the subject property as it existed during Emerald, Inc.'s site visit. If this site's use and/or conditions change, information, observations and recommendations found herein would no longer apply. This report is intended to be used in its entirety. No excerpts may be taken to typify the findings of this survey. Emerald, Inc. shall not be liable for any special, consequential and/or exemplary damages resulting, in whole or in part, from the customer's use of the data provided. It was not within the scope of this investigation to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Our selection of sample locations and frequency is based upon our observations and the assumption that like materials in the same are homogeneous.

Emerald, Inc. conducted the survey to the best of its ability using the standards of the industry. In the event additional materials are found to contain asbestos, Emerald, Inc. shall not be liable for any failure of such findings during its initial survey.

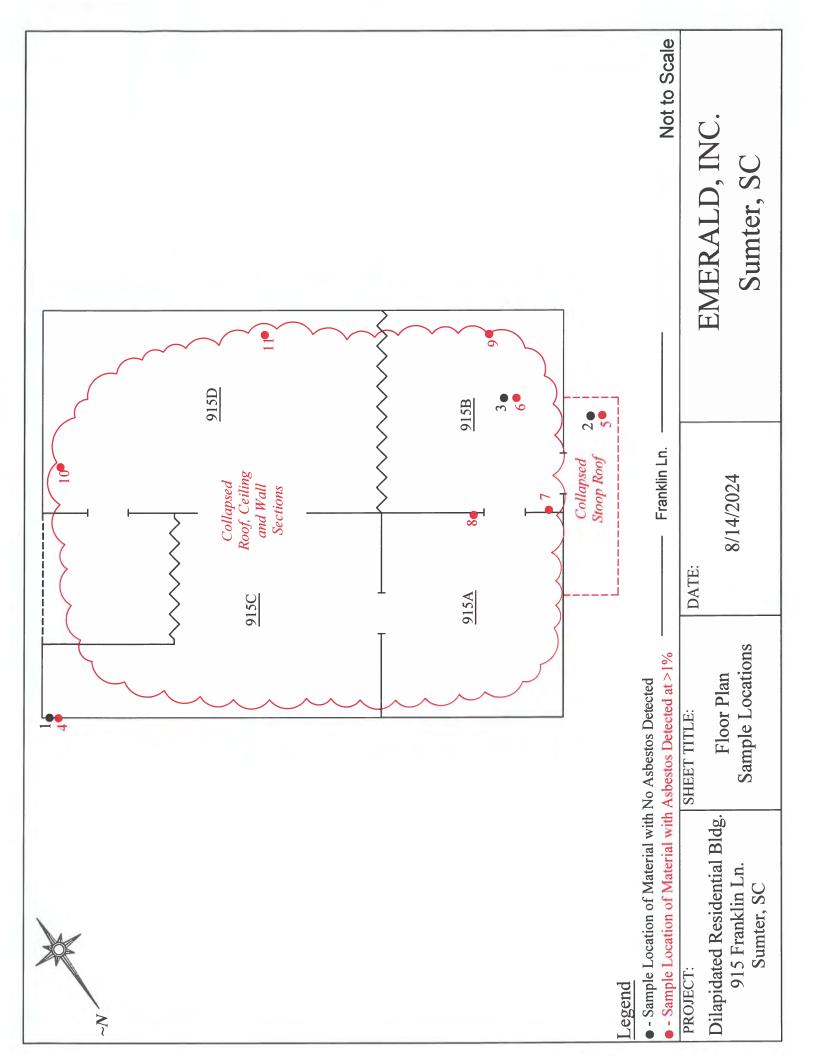
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7.0 APPENDICES

APPENDIX A. Site Plan
APPENDIX B. Asbestos Sample Log
APPENDIX C. Chain of Custody & Analytical Results
APPENDIX D. Building Inspector Licenses
APPENDIX E. Site Photographs

APPENDIX A SITE PLAN





ASBESTOS SAMPLE LOG

APPENDIX B

EMERALD, INC. ASBESTOS SAMPLE LOG

PROJECT NAME: Sumter City/County Project: 915 Franklin Ln. ADDRESS: 915 Franklin Ln., Sumter, S.C.

DATE: <u>8/14/2024</u> INSPECTOR: <u>Dalton Reames</u>

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NTIAL I																							al for Fu
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	CON	H	\vdash	×			×				×				-	\vdash		\vdash		-			
																		-					
	APPROX.	SF/CF/LF		1,250 SF or 313 CF			1,250 SF or 313 CF				2,500 SF or 625 CF												21
		F/NF		ш			ш				ш												<u>E/NE</u> F= Friable NF= Non Friable
		TYPE		Σ			Σ				s											%	
		TION																				ed at >1	
		CONDITION		SD			SD				SD											detecte	
		DESCRIPTION		Roofing Shingles			Roofing Felt (55% Chrysotile)			Sheetrock with Joint Compound	System (3% Chrvsotile in Joint	Compound)										CF = Cubic Feet: Red characters indicate materials with asbestos detected at >1%	<u>Type</u> S= Surface TSI= Thermal Systems Insulation M= Miscellaneous
		EXACT	ture	icture	iround	ture	icture	iround	B Wall	A Wall	3 Debris	O Debris) Debris									naracters	
LOCATION		ROOM	Remnant Roof Structure	Collapsed Stoop Structure	Scattered Debris on Ground	Remnant Roof Structure	Collapsed Stoop Structure	Scattered Debris on Ground	Room 915B Wall	Room 915A Wall	Room 915B Debris	Room 915D Debris	Room 915D Debris		4							t: Red ch	
TOC		R	inant F	psed S	red De	inant F	psed S	red De	-	-	æ	Ř	Ř									ic Fee	ğ
12		FLOOR	Ren	Colla	Scatte	Ren	Colla	Scatte			First											CF = Cub	iy Damage
		SAMPLE #	915-1	915-2	915-3	915-4	915-5	915-6	915-7	915-8	915-9	915-10	915-11									Notes: (ed

APPENDIX C

CHAIN OF CUSTODY & ANALYTICAL RESULTS



Attention: Ronny Lowder

Emerald, Inc. 2520 Tahoe Drive PO Box 3050 Sumter, SC 29151

EMSL Analytical, Inc.

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

Project: Sumter County Project : 915 Franklin Ln. (Sumter County)

EMSL Order:022404671Customer ID:EMER51Customer PO:Project ID:Sumter County

Phone:	(803) 469-5454
Fax:	(803) 775-1970
Received Date:	08/15/2024 9:30 AM
Analysis Date:	08/26/2024
Collected Date:	

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
915-3	Roof Shingle	Gray/Black	100.0 Other	None	No Asbestos Detected
022404671-0010		Fibrous			
		Heterogeneous			

Analyst(s)

Stephen Bennett (1)

hos the

Stephen Bennett, Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or < 1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/26/2024 17:21:53

ASB_PLMEPANOB_0012_0002 Printed 8/26/2024 5:23:17PM

EMSL	EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:	Ronny Lowder	Phone:	(803) 469-5454
	Emerald, Inc.	Fax:	(803) 775-1970
	2520 Tahoe Drive	Received Date:	08/15/2024 9:30 AM
	PO Box 3050	Analysis Date:	08/20/2024
	Sumter, SC 29151	Collected Date:	
Project:	Sumter County Project : 915 Franklin Ln. (Sumter County)	그는 그렇게?	and the second

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes	itos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
915-1	Roof Shingle	White/Black Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
022404671-0001		Heterogeneous			
915-2	Roof Shingle	Gray/White/Black Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
022404671-0002		Heterogeneous			
915-4	Roofing Felt	Gray/Black Fibrous	5% Cellulose	40% Non-fibrous (Other)	55% Chrysotile
022404671-0003		Homogeneous			
915-5	Roofing Felt				Positive Stop (Not Analyzed)
022404671-0004			.		
915-7-Joint Compound	Sheetrock System	Beige Non-Fibrous	<1% Cellulose	20% Ca Carbonate 77% Non-fibrous (Other)	3% Chrysotile
022404671-0005		Homogeneous	10001 0 11 1		Name Detected
915-7-Tape	Sheetrock System	Beige Fibrous	100% Cellulose		None Detected
022404671-0005A		Homogeneous			New Detroited
915-7-Sheetrock	Sheetrock System	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
022404671-0005B		Heterogeneous			
915-8-Joint Compound	Sheetrock System				Positive Stop (Not Analyzed)
022404671-0006					News Detected
915-8-Tape	Sheetrock System	Beige Fibrous	100% Cellulose		None Detected
022404671-0006A		Homogeneous	1501 0 11 1		News Detected
915-8-Sheetrock	Sheetrock System	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
	Charatanali Custam	Heterogeneous			Positive Stop (Not Analyzed)
915-9-Joint Compound	Sheetrock System				Positive Stop (Not Analyzed)
022404671-0007					
915-9-Tape	Sheetrock System	Beige Fibrous	100% Cellulose		None Detected
022404671-0007A		Homogeneous	and the second second		
915-9-Sheetrock	Sheetrock System	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
022404671-0007B	2 10 10 10 10 10 10 10 10 10 10 10 10 10	Heterogeneous			
915-10-Joint Compound	Sheetrock System				Positive Stop (Not Analyzed)
022404671-0008	and a stand of the	Set 1943 - A			
915-10-Tape	Sheetrock System	Gray/Beige Fibrous	100% Cellulose		None Detected
022404671-0008A		Homogeneous			
915-10-Sheetrock	Sheetrock System	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
022404671-0008B		Heterogeneous			

Initial report from: 08/20/2024 13:17:46

ASB_PLM_0008_0002 - 2.31 Printed: 8/20/2024 1:17 PM



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175

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

EMSL Order: 022404671 Customer ID: EMER51 Customer PO:

Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	stos	Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
915-11-Joint Compound	Sheetrock System				Positive Stop (Not Analyzed)	
022404671-0009						
915-11-Tape	Sheetrock System	Gray/Beige	100% Cellulose		None Detected	
		Fibrous				
022404671-0009A		Homogeneous				
915-11-Sheetrock	Sheetrock System	Brown/Gray	15% Cellulose	85% Non-fibrous (Other)	None Detected	
022404671-0009B		Fibrous Heterogeneous				

Analyst(s)

Jurnee West (5) Nicole MacDowell (9)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 08/20/2024 13:17:46



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

ADDU DI DI

EMBL ANALYTICAL, INC.

PHONE: FAX:

Company Name : Emer	ald Inc		EMSL Custo	man ID:						
Street: P.O Box 3050	und, mo.		City: Sumter		State/Provin	see SC				
				: 803-469-5454	Fax #: 803-4					
Zip/Postal Code: 29151	v Lowdor	Country: US			Fax Email					
Report To (Name): Ronny		Please Prov		Fax Email						
Email Address: rlowder@emeraldinc-us.com Project Name/Number: Sumter County Project 915 Franklin Ln			Purchase Order: EMSL Project ID (Internal Use Only):							
Project Name/Number: 5 U.S. State Samples Taker		roject 915 Franklin Ln	CT Samples	Commercial	Taxable [] Resid	dential/Tax Exempt				
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		Third Party Billing requires writ								
3 Hour 6	Hour	Turnaround Time (TAT)	Options" - Pr		ur 1 1 Week	2 Week				
*For TEM Air 3 hr through 6 hr	olease call ahu	and to schedule. *There is a premiur	n charge for 3 Ho	UT TEM AHERA OF EF	A Level II TAT You	will be asked to sign an				
authorization form f		Analysis completed in accordance		the local data and the local data and the	ated in the Analytical	Price Guide				
from NY	Inples alle	<u>TEM – Air</u> 4-4.5hr TAT (AHERA only)	TEM- Dust						
NIOSH 7400		AHERA 40 CFR, Part 76	3	Microvac - A	STM D 5755					
w/ OSHA 8hr. TWA		NIOSH 7402		Wipe - ASTN	D6480					
PLM - Bulk (reporting lim	it)	EPA Level II			ation (EPA 600/J-	93/167)				
PLM EPA 600/R-93/116	5 (<1%)	ISO 10312		Soil/Rock/Verm						
PLM EPA NOB (<1%)		TEM - Bulk			0/R-93/116 with m					
Point Count						nilling prep (<0.25%) nilling prep (<0.1%)				
400 (<0.25%) 1000 ((<0.1%)	NYS NOB 198.4 (non-fria	DIE-NT)		ive via Filtration P					
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NYS 198.1 (friable in N		TEM - Water: EPA 100.2			ethod EPA 600/R-	04/004 - PLM/TEM				
NYS 198.6 NOB (non-1		Fibers >10µm Waste Drinking Other:								
NYS 198.8 SOF-V	nabie=ivit)									
		All Fiber Sizes Waste	Drinking							
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Check For Positive St				Pore Size (Air Sa Signature:	imples): 0.8	e l				
Samplers Name: Dalt		mes	Samplers	Signature:	Jalle de Iume/Area (Air)	Øate/Time				
Check For Positive St	on Rea	MES Sample Descript	Samplers	Signature:	allet	Øate/Time Sampled				
Samplers Name: Dalt	on Rea	mes	Samplers	Signature:	Jalle de Iume/Area (Air)	Øate/Time				
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Client Sample # (s): 91 Relinquished (Client): Received (Lab):	5-1 thru 9	Mes Sample Descript ions on Following Page	Samplers ion e : 8/14,	Signature: Vo	Iume/Area (Air) HA # (Bulk)	Date/Time Sampled 8/14/2024				
Client Sample # (s): 91 Received (Lab): Comments/Special Instru	5-1 thru 9	Mes Sample Descript ions on Following Page 15-11 - Date	Samplers ion e : 8/14,	Signature: Vo	i # of Samples: Time	Date/Time Sampled 8/14/2024				
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Client Sample # (s): 91 Relinquished (Client): Received (Lab): Note: Sumter County Project	5-1 thru 9	Mes Sample Descript ions on Following Page 15-11 - Date	Samplers ion e : 8/14 : 8/14	Signature: Vo	i # of Samples: Time	Date/Time Sampled 8/14/2024				
Client Sample # (s): 91 Relinquished (Client): Received (Lab): Note: Sumter County Project	5-1 thru 9	Mes Sample Descript ions on Following Page 15-11 - Date	Samplers ion e : 8/14,	Signature: Vo	i # of Samples: Time	Date/Time Sampled 8/14/2024				
Client Sample # (s): 91 Relinquished (Client): Received (Lab): Note: Sumter County Project	5-1 thru 9	Mes Sample Descript ions on Following Page 15-11 - Date	Samplers ion e : 8/14 : 8/14	Signature: Vo	i # of Samples: Time	Date/Time Sampled 8/14/2024				
Client Sample # (s): 91 Relinquished (Client): Received (Lab):) P(Comments/Special Instru- Note: Summer County Project	5-1 thru 9	Mes Sample Descript ions on Following Page 15-11 - Date	Samplers ion e : 8/14 : 8/14	Signature: Vo	i # of Samples: Time	Date/Time Sampled 8/14/2024				

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CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

EMSL Analytical, Inc 706 Gralin Street Kernersville, NC 27284

Client Sample # (s)	915-1 thru 915-11	Total Samples #:	11	Phone: (336) 992-1025
Relinquished.	Date:	Time		Fax: (336) 992-4175
Received:	Date [.]	Time.		http://www.emsl.com
Relinguished:	Date:	Time:		
Received:	Date:	Time:		

SAMPLE NUMBER	SAMPLE DESCRIPTION	VOLUME (if applicable)
915-1	Roof Shingle	
915-2	U U	
	И	
915-4	Roofing Felt	
915-5	11	
915-5	10	
915-7	Sheetrock System	
<u>915-7</u> 915-8	Sheetrock System	
915-9	" Sample All C	24.0.15
915-10	"	7
915-11		
515-11		
i		

2042

APPENDIX D

BUILDING INSPECTOR LICENSES

SCDHEC ISSUED Asbestos ID Card

RONNY LOWDER



Expiration Date: CONSULTMP ASB-32201 09/18/24 CONSULTBI BI-01497 09/18/24 SUPERALIERA SUPERAHERA SA-00715

.

09/17/24

1



Expiration Date: 11/07/24

11/06/24 08/07/25

11/07/24

John Dalton Reames, Jr.



AIRSAMPLER CONSULTBI CONSULTPD SUPERAHERA **APPENDIX E**

SITE PHOTOGRAPHS

Sumter City/County Project: 915 Franklin Ln., Sumter, S.C.

Photo #4 View Depicting Remnant Sheetrock Pieces on Wooden Ceiling Joists

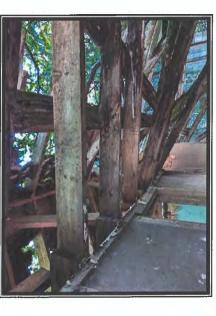


Photo #3 Remnant, Asbestos-containing Sheetrock Wall Section



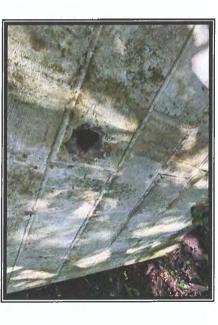


Photo #2 View Depicting the Collapsed Roof Structure

Photo #1 View from Franklin Ln. Depicting the Front of the CMU Block Structure

Sumter City/County Project: 915 Franklin Ln., Sumter, S.C.

Photo #8 No Loose-fill Block Insulation Observed within CMU Block Walls



View Depicting Wood-framed and Sided Section at the Rear of the Building Photo #7





Photo #6 View Depicting Debris Pile with Asbestos-containing Sheetrock and Roofing

View Depicting Asbestos-containing Roofing Material on Collapsed Stoop Feature Photo #5



2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE: www.emeraldinc-us.com TELEPHONE (803) 469-5454 FAX (803) 469-5465

ASBESTOS SURVEY REGARDING SUMTER CITY/COUNTY PROJECT DILAPIDATED MOBILE HOME 1005 BELMONT DRIVE SUMTER, SOUTH CAROLINA



Prepared for:

City of Sumter P.O. Box 1449 Sumter, South Carolina 29151

Prepared by:

Emerald, Inc. P.O. Box 3050 Sumter, South Carolina 29151

Date of Inspection: August 21, 2024 Date of Report: August 30, 2024

FOREWORD

This report was prepared by Emerald, Inc. of Sumter, South Carolina, for the City of Sumter, regarding the dilapidated mobile home unit located at 1005 Belmont Dr. in Sumter, S.C. The contents of this report are confidential and intended for the use of the client only.

J. Dalton Reames, Jr., S.C. Licensed Building Inspector, conducted the inspection, and Ronny L. Lowder, S.C. Licensed Building Inspector and Management Planner, prepared this report. Any questions or comments concerning this report should be directed to Ronny L. Lowder at either (803) 469-5454 or via email at rlowder@emeraldincus.com.

J. Dalton Reames, Jr.

SC Licensed Building Inspector License Number BI-00945 Expiration Date: 11/06/24

SC Licensed AHERA Supervisor License Number SA-01252 Expiration Date: 11/07/24

SC Licensed Air Sampler License Number AS-00287 Expiration Date: 11/07/24

SC Licensed Project Designer License Number PD-00200 Expiration Date: 08/07/25

Lowder, CHMM

SC Licensed Building Inspector License Number BI-01497 Expiration Date: 09/18/24

SC Licensed AHERA Supervisor License Number SA-00715 Expiration Date: 09/17/24

SC Licensed Mgmt Planner License Number ASB-32201 Expiration Date: 09/18/24

TABLE OF CONTENTS

1.0	INTRODUCTION AND OBJECTIVE	1
2.0	SURVEY METHODOLOGY	1
3.0	HAZARD ASSESSMENT FACTORS (ASBESTOS)	3
3.1	Homogeneous Areas	3
3.2	Hazard Factors	3
4.0	ANALYSIS AND RESULTS	4
4.1	Laboratory Analysis	4
4.2	Survey Results	5
5.0	CONCLUSIONS AND RECOMMENDATIONS	6
6.0	ASSUMPTIONS AND LIMITATIONS	7
7.0	APPENDICES	8

1.0 INTRODUCTION AND OBJECTIVE

Emerald, Inc. was requested to conduct an Asbestos Survey of the vacant residential structure located at 1005 Belmont Dr. in Sumter, S.C., to identify the presence of any asbestos-containing materials (ACM), prior to demolition activities. The inspection was authorized by Mr. John Macloskie, Codes Director, with the City of Sumter. The inspection included identification and assessment of the condition of suspect asbestos-containing materials, either friable or non-friable, on the interior and exterior portions of the structure.

This report is a compilation of the inspection and its results.

2.0 SURVEY METHODOLOGY

On August 21, 2024, Emerald, Inc. conducted an Asbestos Survey on the building at the stated address. J. Dalton Reames, Jr., South Carolina Licensed Building Inspector, conducted the inspection.

Estimated to have been prefabricated circa 1990 for residential purposes, the single-story structure contains approximately 1,000 square feet of interior space. The basic building construction is as follows:

- Wood-framed Walls Built over a Metal Trailer Frame
 - Vinyl Exterior Cladding over Sheathing Felt and Original Wood-panel Exterior Walls
- Wooden A-framed Roof Structure
 - Covered with Shingles and Associated Felt
- Plywood and OSB Flooring Substrates
 - Resilient Sheet Flooring and Flooring Squares
 - Tacked Carpets

- Remnant Pieces of Sheet Flooring on Ground of Crawl Space Area are Asbestos-containing Materials
 - Note: Remnants of Sheet Flooring were Observed on the Ground within the Crawl Space; however, Subfloor Remnants or Layers May Have Been Obscured from View
- Wood-framed Interior Walls Covered with Gypsum Wallboard
 - Wood Furring Strips Cover the Seams (No Joint Compound)
- Wooden Ceiling Joists Covered with Gypsum Panels with Simulated Texture
 - Wood Furring Strips Cover the Seams
 - o Small Repair Section with Spray-applied Texture
- Climate Control Equipment
 - Heating Furnace Staged in Utility Room
 - Non-suspect Ductwork in Crawl Space, Leading to Floor Vents

Future use of the property, following demolition activities, is unknown.

The survey included a visual inspection to identify the presence of material suspected of containing asbestos. This identification was based on the experience and training of the inspector. A total of thirty-nine (39) samples were collected during the survey for laboratory analysis, based upon the required EPA and SC DHEC sampling matrix. Samples were placed in individual containers, labeled and numbered according to the sampling schemes (1005-1 through 1005-39). Per SC DHEC Asbestos Regulations, the independent laboratory is required to sample all layers of each sample. As a result, thirty-one (31) samples were analyzed by the lab, via Polarized Light Microscopy (PLM) while utilizing Positive Stop, and nine (9) samples were analyzed, via Transmission Electron Microscopy (TEM). Appendix B contains the Asbestos Survey Log

kept during the inspection which identifies the samples collected by sample number, sample type, location and condition assessment, along with any comments. The samples were shipped to EMSL Analytical, Inc. in Kernersville, North Carolina for analysis. Analysis and results are discussed in Section 4.0.

3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)

3.1 Homogeneous Areas

The sample collection was typically conducted by homogeneous materials, i.e., any materials of the same type regarding uniformity throughout in structure or make-up and appearance (color, texture, and/or date of construction/application). Homogeneous materials can be further classified as surfacing materials, thermal system insulation and miscellaneous materials. Miscellaneous materials include ceiling tiles, floor tiles, roofing, caulking, and glazing, etc.

3.2 Hazard Factors

The samples of suspect material collected were classified as either friable (F) or non-friable (NF). Friable means the material can be crumbled, pulverized, or reduced to powder by ordinary hand pressure. Materials initially determined to be non-friable can receive a reclassification of friable if the material is damaged, thereby providing an avenue for release of asbestos fibers. Friable asbestos-containing material (ACM) has been determined by EPA and OSHA to be a greater hazard (health risk) than non-friable ACM. In assessing the fiber release potential, the current condition of the suspect materials sampled was noted in the Asbestos Survey Log (Appendix B). The condition was denoted as good, damaged, or significantly damaged. Current condition is a factor used to assess the potential for fiber release. Other factors used to determine potential fiber release include air movement, surface type, and area activity as related to human

occupancy.

4.0 ANALYSIS AND RESULTS

4.1 Laboratory Analysis

Bulk samples were analyzed by EMSL Analytical, Inc. using Polarized Light Microscopy (PLM) with Dispersion Staining Techniques (EPA Bulk Analysis Method 600/R-93/116). This method utilizes part of the bulk sample which is mounted on a slide and exposed to an oil of specific refractive index. This prepared slide is then subjected to a variety of optical tests.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of asbestos content are then determined through visual estimating. Although this is an estimate, any material containing greater than one percent of any type of asbestos is classified as ACM by the EPA. Any material classified as ACM must be handled accordingly.

Under the revised South Carolina Asbestos Regulation 61-86.1 effective June 27, 2008, any analysis of non-friable organically bound (NOB) material that is found to be negative via PLM testing, must have confirmation testing via Transmission Electron Microscopy (TEM) on one sample from each media; therefore, nine (9) samples were analyzed by the lab, via TEM testing.

4

4.2 Survey Results

Samples were collected and tested from various suspect materials, as referenced in Appendix B, Asbestos Sample Log. Samples of roofing shingles and felt, wall sheathing felt, window caulk, tan carpet backing, brown medium-pile carpet backing, brown plushpile carpet backing, 12 x 12 flooring squares and tan square-design sheet flooring were verified as negative, via TEM analysis.

Appendix C contains a copy of the analytical results from the laboratory.

of the analytical results from the laboratory.

TABLE 1 DILAPIDATED MOBILE HOME 1005 BELMONT DRIVE SUMTER, SOUTH CAROLINA ASBESTOS-CONTAINING MATERIALS (ACM)

Description	Location	Category (F/NF)	Approx. SF/LF
Remnant Pieces of Tan-color, Rustic- design Sheet Flooring ⁽¹⁾	Scattered along the Ground in the Crawl Space Area; Particularly at the West End	F – Due to Damaged Condition	75 SF of Crawl Space Area Observed

Note: F - Friable

NF - Non-Friable

(1) - Asbestos-containing sheet flooring remnants were observed on the ground of the western crawl space area; however, subfloor remnants or sheet sections may have been obscured from view.

EMERALD, INC., CONDUCTED THE SURVEY TO THE BEST OF ITS ABILITY, ADHERING TO INDUSTRY STANDARDS. THE QUANTITIES PROVIDED IN THIS REPORT ARE APPROXIMATE AND SHALL SERVE AS A BASIS FOR ABATEMENT BID SUBMITTALS. IF ADDITIONAL SUSPECT MATERIALS ARE IDENTIFIED DURING RENOVATION OR DEMOLITION ACTIVITY, THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE BUILDING OWNER'S REPRESENTATIVE.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the inspection of August 21, 2024, and the analytical results from the samples collected and tested by an independent laboratory, the crawl space area of the dilapidated mobile home unit located at 1005 Belmont Dr. in Sumter, S.C., does contain friable ACM, as per Table 1. Such materials will have to be removed and properly disposed by a S.C. licensed abatement contractor per SC DHEC Bureau of Air Quality Asbestos Regulation 61-86.1 effective May 27, 2011, prior to demolition activities involving the asbestos-containing materials.

6.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection of August 21, 2024. Emerald, Inc., their representative and this report make no representation and/or assumptions as to past conditions or future occurrences. The information, conclusions and recommendations provided herein do not constitute as legal or medical advice. It is further understood that Emerald, Inc. makes no representations or warranties of any kind. Nor are such representations or warranties to be implied with respect to the data furnished. Emerald, Inc. assumes no responsibility with respect to the customers and its employees use thereof.

The information provided herein applies only to the subject property as it existed during Emerald, Inc.'s site visit. If this site's use and/or conditions change, information, observations and recommendations found herein would no longer apply. This report is intended to be used in its entirety. No excerpts may be taken to typify the findings of this survey. Emerald, Inc. shall not be liable for any special, consequential and/or exemplary damages resulting, in whole or in part, from the customer's use of the data provided. It was not within the scope of this investigation to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Our selection of sample locations and frequency is based upon our observations and the assumption that like materials in the same are homogeneous.

Emerald, Inc. conducted the survey to the best of its ability using the standards of the industry. In the event additional materials are found to contain asbestos, Emerald, Inc. shall not be liable for any failure of such findings during its initial survey.

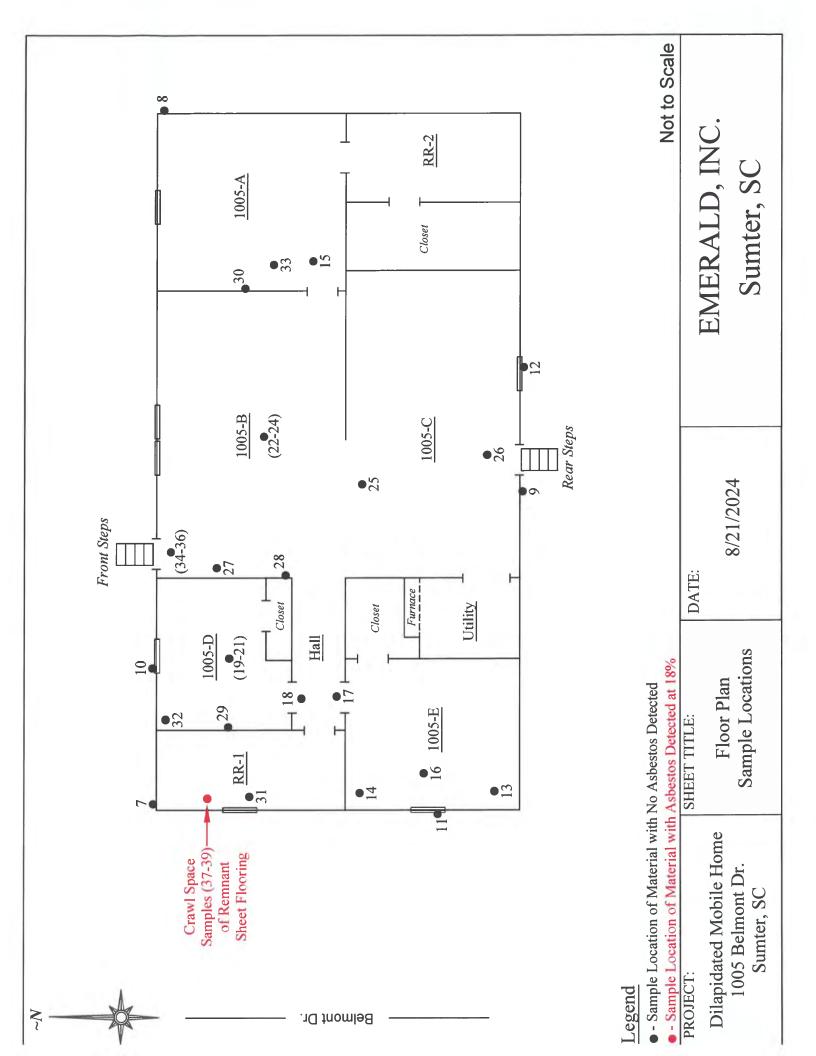
7

7.0 APPENDICES

APPENDIX A.	Site Plan
APPENDIX B.	Asbestos Sample Log
APPENDIX C.	Chain of Custody & Analytical Results
APPENDIX D.	Building Inspector Licenses
APPENDIX E.	Site Photographs

APPENDIX A SITE PLAN





APPENDIX B

ASBESTOS SAMPLE LOG

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 1005 Belmont Dr. ADDRESS: 1005 Belmont Dr., Sumter, S.C.

DATE: 8/21/2024 INSPECTOR: Dalton Reames

Page 1 of 2

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/County Project: 1005 Belmont Dr. ADDRESS: 1005 Belmont Dr., Sumter, S.C.

DATE: 8/21/2024 INSPECTOR: Dalton Reames

APPENDIX C

CHAIN OF CUSTODY & ANALYTICAL RESULTS EMSL

Attention: Ronny Lowder

Emerald, Inc.

PO Box 3050

2520 Tahoe Drive

Sumter, SC 29151

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404856 Customer ID: EMER51 Customer PO: Project ID: Sumter County

 Phone:
 (803) 469-5454

 Fax:
 (803) 775-1970

 Received Date:
 08/22/2024 10:10 AM

 Analysis Date:
 08/28/2024

 Collected Date:

Project: Sumter County Project : 1005 Belmont Dr. (Sumter County)

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
1005-3 022404856-0030	Roof Shingle	Brown/Tan/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
1005-6 022404856-0031	Roofing Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
1005-9 022404856-0032	Wall Sheathing Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
1005-12 022404856-0033	Window Caulk	White/Clear Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
1005-15 022404856-0034	Tan Carpet - Backing	Gray/Beige/Clear Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
1005-18 022404856-0035	Brown Medium Carpet - Backing	Tan/Beige/Clear Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
1005-21 022404856-0036	Brown Plush Carpet - Backing	Brown/Beige/Clear Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
1005-24 022404856-0037	12x12 Flooring Squares	Brown/Gray Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
1005-27 022404856-0038	Tan Square Sheet Flooring	Tan/White/Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Stephen Bennett (9)

the the

Stephen Bennett, Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations . The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or < 1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/29/2024 17:25:55

ASB_PLMEPANOB_0012_0002 Printed 8/29/2024 5:25:59PM

EMSL	EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
	Ronny Lowder Emerald, Inc. 2520 Tahoe Drive PO Box 3050 Sumter, SC 29151 Sumter County Project : 1005 Belmont Dr. (Sumter County)		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
1005-1	Roof Shingle	Red/Black Fibrous Heterogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
1005-2	Roof Shingle	Brown/Black Fibrous	5% Glass	95% Non-fibrous (Other)	None Detected
022404856-0002		Heterogeneous			None Detected
1005-4	Roofing Felt	Black Fibrous	60% Cellulose	40% Non-fibrous (Other)	None Detected
022404856-0003	D-6-5-4	Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
1005-5 022404856-0004	Roofing Felt	Black Fibrous Homogeneous	60% Cellulose	40 % NON-INFORS (Other)	
			30% Cellulose	70% Non-fibrous (Other)	None Detected
1005-7	Wall Sheathing Felt	Black Fibrous Homogeneous	30% Cellulose	10% (One)	
	Wall Sheathing Felt	Black	30% Cellulose	70% Non-fibrous (Other)	None Detected
1005-8	wan onearning reit	Fibrous Homogeneous			
1005-10	Window Caulk	White/Clear Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
022404856-0007		Homogeneous			
1005-11	Window Caulk	White/Clear Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
022404856-0008		Homogeneous			Al Datastad
1005-13	Tan Carpet - Backing	Beige Fibrous	85% Synthetic	15% Non-fibrous (Other)	None Detected
022404856-0009		Homogeneous			None Detected
1005-14	Tan Carpet - Backing	Beige Fibrous Homogeneous	85% Synthetic	15% Non-fibrous (Other)	None Delected
	Duran Mardiner	Brown/Tan	85% Synthetic	15% Non-fibrous (Other)	None Detected
1005-16	Brown Medium Carpet - Backing	Fibrous Homogeneous	65% Synthetic		
1005-17	Brown Medium Carpet - Backing	Brown/Tan Fibrous	85% Synthetic	15% Non-fibrous (Other)	None Detected
022404856-0012		Homogeneous			
1005-19	Brown Plush Carpet - Backing	Brown/Tan Fibrous	85% Synthetic	15% Non-fibrous (Other)	None Detected
022404856-0013		Homogeneous			
1005-20	Brown Plush Carpet - Backing	Brown/Tan Fibrous	85% Synthetic	15% Non-fibrous (Other)	None Detected
022404856-0014		Homogeneous			
1005-22	12x12 Flooring Squares	Gray Non-Fibrous		10% Quartz 90% Non-fibrous (Other)	None Detected
022404856-0015		Homogeneous	·		Nene Detected
1005-23	12x12 Flooring Squares	Brown/Gray Non-Fibrous		10% Quartz 90% Non-fibrous (Other)	None Detected
022404856-0016		Homogeneous			

Initial report from: 08/27/2024 10:12:54

EMSL Analytical, Inc.

EMSL

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@ernsl.com EMSL Order: 022404856 Customer ID: EMER51 Customer PO:

Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes	tos	Asbestos
ample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
005-25	Tan Square Sheet Flooirng	White Non-Fibrous	2% Glass	98% Non-fibrous (Other)	None Detected
22404856-0017		Homogeneous			N. Detected
005-26	Tan Square Sheet Flooirng	Tan/White Non-Fibrous	2% Glass	98% Non-fibrous (Other)	None Detected
22404856-0018		Homogeneous	8% Cellulose	90% Non-fibrous (Other)	None Detected
005-28	Gypsum Wallboard	Gray/White Fibrous Heterogeneous	2% Glass	30 % (On-inclose (Oniol)	
22404856-0019	m Martin and		10% Cellulose	90% Non-fibrous (Other)	None Detected
005-29	Gypsum Wallboard	Gray Fibrous Heterogeneous	<1% Glass		
22404856-0020	Ourseum Wellhoord	Brown/Gray	10% Cellulose	90% Non-fibrous (Other)	None Detected
1005-30	Gypsum Wallboard	Fibrous Heterogeneous	<1% Glass		
	Pre-fab Ceiling	Gray/Tan		10% Quartz	None Detected
005-31-Texture	Panels w/ Texture	Non-Fibrous Homogeneous		10% Ca Carbonate 80% Non-fibrous (Other)	
	Pre-fab Ceiling	Gray	10% Cellulose	90% Non-fibrous (Other)	None Detected
005-31-Panel	Panels w/ Texture	Fibrous Heterogeneous			
1005-32-Texture	Pre-fab Ceiling	Gray/Tan		10% Quartz	None Detected
022404856-0023	Panels w/ Texture	Non-Fibrous Homogeneous		5% Ca Carbonate 85% Non-fibrous (Other)	
1005-32-Panel	Pre-fab Ceiling Panels w/ Texture	Gray Fibrous	8% Cellulose 2% Glass	90% Non-fibrous (Other)	None Detected
022404856-0023A		Heterogeneous			N Detected
1005-33-Texture	Pre-fab Ceiling Panels w/ Texture	White Non-Fibrous		10% Quartz 10% Ca Carbonate	None Detected
022404856-0024		Homogeneous	<u> </u>	80% Non-fibrous (Other)	None Detected
1005-33-Panel	Pre-fab Ceiling Panels w/ Texture	Brown/Gray Fibrous	10% Cellulose <1% Glass	90% Non-fibrous (Other)	NOILE Deletien
022404856-0024A		Homogeneous	······································	30% Ca Carbonate	None Detected
1005-34	Spray-applied Ceiling Texture	White Non-Fibrous Homogeneous		70% Non-fibrous (Other)	
022404856-0025	O	Tan/White		30% Ca Carbonate	None Detected
1005-35	Spray-applied Ceiling Texture	Non-Fibrous Homogeneous		70% Non-fibrous (Other)	
022404856-0026	Occurrential Collins	White		30% Ca Carbonate	None Detected
1005-36	Spray-applied Ceiling Texture	Non-Fibrous Homogeneous		70% Non-fibrous (Other)	
022404856-0027	Buetie Ten Sheet	Tan		82% Non-fibrous (Other)	18% Chrysotile
1005-37	Rustic Tan Sheet Flooirng	Fibrous Heterogeneous			
1005-38	Rustic Tan Sheet	Heleregeneous			Positive Stop (Not Analyzed
022404856-0029	Flooirng				



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404856 Customer ID: EMER51 Customer PO: Project ID: Sumter County

Analyst(s)

Cameron Evans (18) Jurnee West (13)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 08/27/2024 10:12:54



4

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

(1) 0

PHONE: FAX.

e

Company Name : Emera	ald, Inc.		EMSL Custo	mer ID:		
Street: P.O. Box 3050		City: Sumter State/Province: SC				
Zip/Postal Code: 29151			Telephone #: 803-469-5454 Fax #: 803-469-5465		69-5465	
Report To (Name): Ronny	Lowder		Please Provi		🗌 Fax 🗹 Email	
Email Address: rlowder@	Demeraldinc	-us.com	Purchase Or			
Project Name/Number: Su	mter County Pro	oject: 1005 Belmont Dr.	EMSL Projec	t ID (Internal	Use Only)	Instigi/Tex Exampt
U.S. State Samples Taken	: SC	to: 🗹 Same 🔲 Different -	CT Samples:			lential/Tax Exempt
	EMSL-Bill	to: Same Dumerent - Third Party Billing requires write	ten authorization	from third party	/	
		Turnaround Time (TAT)	Options* - Pl	ease Check		2 Week
3 Hour 6 H		24 Hour 48 Hour d to schedule. "There is a premiur	m charge for 3 Hou	TEM AHERA	or EPA Level II TAT. You w	nll be asked to sign an
authorization form for	or this service A	Analysis completed in accordance	with EMSL's Tem	ns and Condition	s located in the Analytical P	Price Guide.
PCM - Air Check if sam	ples are	TEM – Air 44-4.5hr TAT	(AHERA only)	TEM-Dust		
NIOSH 7400][AHERA 40 CFR, Part 76	33	Microvac	- ASTM D 5755	
w/ OSHA 8hr. TWA	1	NIOSH 7402		Wipe - A	STM D6480	
PLM - Bulk (reporting limi	10 [EPA Level II			onication (EPA 600/J-9	93/167)
PLM EPA 600/R-93/116		ISO 10312		Soil/Rock/V		B
PLM EPA NOB (<1%)		TEM - Bulk			A 600/R-93/116 with mi A 600/R-93/116 with mi	
Point Count		NYS NOB 198.4 (non-fria	able NV)		A 600/R-93/116 with mi	
400 (<0.25%) 1000 (<0.1%)	Chatfield SOP	able-init)		alitative via Filtration Pr	
Point Count w/Gravimetric	<0.1%)	TEM Mass Analysis-EPA	600 sec. 2.5	TTEM Qui	alitative via Drop Mount	t Prep
NYS 198.1 (friable in N		TEM - Water: EPA 100.2		Cincinna (BC only)	ti Method EPA 600/R-0	04/004 - PLM/TEM
NYS 198.6 NOB (non-f		Fibers >10µm Waste		Other:		
NYS 198.8 SOF-V						
NIOSH 9002 (<1%)		All Fiber Sizesvvaste				
1		dentify Homogenous Grou		Pore Size (A	ir Samples): 0.8µ	im 0.45µm
Check For Positive St	op – Clearly Id	dentify Homogenous Grou	p Filter	Pore Size (A		im 0.45µm
Samplers Name: Dalt	op – Clearly Id	dentify Homogenous Grou	IP Filter Samplers	<	Volume/Area (Air)	DateTime
Check For Positive St	op – Clearly Id	dentify Homogenous Grou	IP Filter Samplers	<	Dellet	Data Time Sampled
Samplers Name: Dalt	op – Clearly II on Rean	dentify Homogenous Grou	Ip Filter Samplers	<	Volume/Area (Air)	DateTime
Samplers Name: Dalt	op – Clearly II on Rean	dentify Homogenous Grou NES Sample Descrip	Ip Filter Samplers	<	Volume/Area (Air)	Data Time Sampled
Samplers Name: Dalt	op – Clearly II on Rean	dentify Homogenous Grou NES Sample Descrip	Ip Filter Samplers	<	Volume/Area (Air)	Data Time Sampled
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Client Sample # (s): 10 Relinquished (Client): Received (Lab);	05-1 thru 1	dentify Homogenous Grou NES Sample Descriptons on Following Pag 1005-39 Dat	e: 8/2//	Signature:	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled 8/21/2024
Client Sample # (s): 10 Received (Lab); Comments/Special Instru	05-1 thru 1	dentify Homogenous Grou NES Sample Descriptons on Following Pag 1005-39 Dat	ip Filter Samplers tion le e: 8/2//2	Signature:	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled 8/21/2024
Client Sample # (s): 10 Relinquished (Client): Received (Lab); Comments/Special Instru- Note: Sumter County Project	Description 05-1 thru 1 05-1 thru 1 05-2 thru 1 05-2 thru 1 05-2 thru 1 05-3 thru 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	dentify Homogenous Grou NES Sample Descriptions on Following Page 1005-39 Date Date Date Date Date Date 1 o	e: 8/2//	Signature:	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled 8/21/2024
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CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

EMSL Analytical, Inc. 706 Gralin Street Kernersville, NC 27284

Client Sample # (s)	1005-1 thru 1005-39	Total Samples #	39	Phone: (336) 992-1025
Relinguished:	Date ⁻	Time.		Fax: (336) 992-4175
Received:	Date.	Time		http://www.emsl.com
Relinquished.	Date:	Time:		
Received:	Date:	Time:		

SAMPLE NUMBER	SAMPLE DESCRIPTION	VOLUME (if applicable)
1005-1	Roof Shingle	
1005-2	P	
	17	
1005-4	Roofing Felt	
1005-5	u u	
	0	
1005-7	Wall Sheathing Felt	
1005-8	11	
	41	
1005-10	Window Caulk	
1005-11	12	
	11	
1005-13	Tan Carpet - Backing	
1005-14	9)	
1005-14	()	
1005-16	Brown Medium Carpet - Backing	
1005-17	1) 1)	
	()	
1005-19	Brown Plush Carpet - Backing	
1005-20	17	
	1)	
1005-22	12x12 Flooring Squares	
1005-23	1	· · · · · · · · · · · · · · · · · · ·
	1	
1005-25	Tan Square Sheet Flooring	
1005-26	11	
	u	
1005-28	Gypsum Wallboard	
1005-29	" Samde A	1 Lavers
1005-30	" Sample A	
1005-31	Pre-fab Ceiling Panels w/ Texture 7	
1005-32	" E Samde	Allayers
1005-33	"	
1005-34	Spray-applied Ceiling Texture	
1005-35		
1005-36	1)	
1005-37	Rustic Tan Sheet Flooring	
1005-38	0	
A TRANSPORT	0	

APPENDIX D

BUILDING INSPECTOR LICENSES

SCDHEC ISSUED Asbestos ID Card

RONNY LOWDER



CONSULTMP ASB-32201 CONSULTBI BI-01497 SUPERAHERA SA-00715

Expiration Date: ASB-32201 09/18/24 BI-01497 09/18/24 SA-00715 09/17/24

1



John Dalton Reames, Jr.



AIRSAMPLER CONSULTBI CONSULTPD

Expiration Date: AS-00287 BI-00945 11/07/24 11/06/24 08/07/25 PD-00200 SUPERAHERA SA-01252 11/07/24

APPENDIX E

SITE PHOTOGRAPHS

Sumter City/County Project: 1005 Belmont Dr., Sumter, S.C.

Photo #4 View Depicting Vinyl Wall Cladding over Sheathing Felt and Original Wood Panels



View Depicting Asbestos-containing Sheet Flooring Remnant on Ground in Crawl Space









Photo #1 View Depicting the Front of the Mobile Home Unit



Sumter City/County Project: 1005 Belmont Dr., Sumter, S.C.

Photo #8 No Asbestos Detected in Gypsum Wallboard Panels

















Photo #5 No Asbestos Detected in Any Resilient Flooring or Carpet Layers



Photo #7 No Asbestos Detected in Gypsum Ceiling Panels with Simulated Texture



2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE: www.emeraldinc-us.com TELEPHONE (803) 469-5454 FAX (803) 469-5465

ASBESTOS SURVEY REGARDING SUMTER CITY/COUNTY PROJECT DILAPIDATED RESIDENTIAL BUILDING 1531 ILLERY ROAD SUMTER, SOUTH CAROLINA



Prepared for:

City of Sumter P.O. Box 1449 Sumter, South Carolina 29151

Prepared by:

Emerald, Inc. P.O. Box 3050 Sumter, South Carolina 29151

Date of Inspection: August 15, 2024 Date of Report: August 28, 2024

FOREWORD

This report was prepared by Emerald, Inc. of Sumter, South Carolina, for the City of Sumter, regarding the dilapidated residential building located at 1531 Illery Rd. in Sumter, S.C. The contents of this report are confidential and intended for the use of the client only.

J. Dalton Reames, Jr., S.C. Licensed Building Inspector, conducted the inspection, and Ronny L. Lowder, S.C. Licensed Building Inspector and Management Planner, prepared this report. Any questions or comments concerning this report should be directed to Ronny L. Lowder at either (803) 469-5454 or via email at rlowder@emeraldincus.com.

J. Dalton Reames, Jr.

SC Licensed Building Inspector License Number BI-00945 Expiration Date: 11/06/24

SC Licensed AHERA Supervisor License Number SA-01252 Expiration Date: 11/07/24

SC Licensed Air Sampler License Number AS-00287 Expiration Date: 11/07/24

SC Licensed Project Designer License Number PD-00200 Expiration Date: 08/07/25

Ronny L. Lowder, CHMM

SC Licensed Building Inspector License Number BI-01497 Expiration Date: 09/18/24

SC Licensed AHERA Supervisor License Number SA-00715 Expiration Date: 09/17/24

SC Licensed Mgmt Planner License Number ASB-32201 Expiration Date: 09/18/24

TABLE OF CONTENTS

1.0	INTRODUCTION AND OBJECTIVE	1
2.0	SURVEY METHODOLOGY	1
3.0	HAZARD ASSESSMENT FACTORS (ASBESTOS)	2
3.1	Homogeneous Areas	2
3.2	Hazard Factors	3
4.0	ANALYSIS AND RESULTS	3
4.1	Laboratory Analysis	3
4.2	Survey Results	4
5.0	CONCLUSIONS AND RECOMMENDATIONS	5
6.0	ASSUMPTIONS AND LIMITATIONS	6
7.0	APPENDICES	7

1.0 INTRODUCTION AND OBJECTIVE

Emerald, Inc. was requested to conduct an Asbestos Survey of the vacant residential structure located at 1531 Illery Rd. in Sumter, S.C., to identify the presence of any asbestos-containing materials (ACM), prior to demolition activities. The inspection was authorized by Mr. John Macloskie, Codes Director, with the City of Sumter. The inspection included identification and assessment of the condition of suspect asbestos-containing materials, either friable or non-friable, on the interior and exterior portions of the structure.

This report is a compilation of the inspection and its results.

2.0 SURVEY METHODOLOGY

On August 15, 2024, Emerald, Inc. conducted an Asbestos Survey on the building at the stated address. J. Dalton Reames, Jr., South Carolina Licensed Building Inspector, conducted the inspection.

Estimated to have been constructed circa 1963 for residential purposes, the singlestory residential structure contains approximately 840 square feet of interior space. The basic building construction is as follows:

- Wood-framed Walls Built over an Earthen Crawl Space
 - Wood Slat and Wood Panel Exterior Wall Sections
- Wooden A-framed Roof Structure
 - Covered with Shingles and Associated Felt
- Uncovered Hardwood Flooring
- Wood-framed Interior Walls Covered with Sheetrock
- Wooden Ceiling Joists Covered with Sheetrock
- No HVAC Equipment Floor-mounted Electric Heating Unit Observed

Future use of the property, following demolition activities, is unknown.

The survey included a visual inspection to identify the presence of material suspected of containing asbestos. This identification was based on the experience and training of the inspector. A total of seventeen (17) samples were collected during the survey for laboratory analysis, based upon the required EPA and SC DHEC sampling matrix. Samples were placed in individual containers, labeled and numbered according to the sampling schemes (1531-1 through 1531-17). Per SC DHEC Asbestos Regulations, the independent laboratory is required to sample all layers of each sample. As a result, eighteen (18) samples were analyzed by the lab, via Polarized Light Microscopy (PLM) while utilizing Positive Stop, and three (3) samples were analyzed, via Transmission Electron Microscopy (TEM). Appendix B contains the Asbestos Survey Log kept during the inspection which identifies the samples collected by sample number, sample type, location and condition assessment, along with any comments. The samples were shipped to EMSL Analytical, Inc. in Kernersville, North Carolina for analysis. Analysis and results are discussed in Section 4.0.

3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)

3.1 Homogeneous Areas

The sample collection was typically conducted by homogeneous materials, i.e., any materials of the same type regarding uniformity throughout in structure or make-up and appearance (color, texture, and/or date of construction/application). Homogeneous materials can be further classified as surfacing materials, thermal system insulation and miscellaneous materials. Miscellaneous materials include ceiling tiles, floor tiles, roofing, caulking, and glazing, etc.

2

3.2 Hazard Factors

The samples of suspect material collected were classified as either friable (F) or non-friable (NF). Friable means the material can be crumbled, pulverized, or reduced to powder by ordinary hand pressure. Materials initially determined to be non-friable can receive a reclassification of friable if the material is damaged, thereby providing an avenue for release of asbestos fibers. Friable asbestos-containing material (ACM) has been determined by EPA and OSHA to be a greater hazard (health risk) than non-friable ACM. In assessing the fiber release potential, the current condition of the suspect materials sampled was noted in the Asbestos Survey Log (Appendix B). The condition was denoted as good, damaged, or significantly damaged. Current condition is a factor used to assess the potential for fiber release. Other factors used to determine potential fiber release include air movement, surface type, and area activity as related to human occupancy.

4.0 ANALYSIS AND RESULTS

4.1 Laboratory Analysis

Bulk samples were analyzed by EMSL Analytical, Inc. using Polarized Light Microscopy (PLM) with Dispersion Staining Techniques (EPA Bulk Analysis Method 600/R-93/116). This method utilizes part of the bulk sample which is mounted on a slide and exposed to an oil of specific refractive index. This prepared slide is then subjected to a variety of optical tests.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of asbestos content are then determined through visual estimating. Although this is an estimate, any material containing greater than one percent of any type of asbestos is classified as ACM by the EPA. Any material classified as ACM must be

handled accordingly.

Under the revised South Carolina Asbestos Regulation 61-86.1 effective June 27, 2008, any analysis of non-friable organically bound (NOB) material that is found to be negative via PLM testing, must have confirmation testing via Transmission Electron Microscopy (TEM) on one sample from each media; therefore, three (3) samples were analyzed by the lab, via TEM testing.

4.2 Survey Results

Samples were collected and tested from various suspect materials, as referenced

in Appendix B, Asbestos Sample Log. Samples of window glaze, roof shingles and roofing

felt were verified as negative, via TEM analysis.

Appendix C contains a copy of the analytical results from the laboratory.

of the analytical results from the laboratory.

TABLE 1 DILAPIDATED RESIDENTIAL STRUCTURE 1531 ILLERY ROAD SUMTER, SOUTH CAROLINA ASBESTOS-CONTAINING MATERIALS (ACM)

Description	Location	Category (F/NF)	Approx. SF/LF
Sheetrock with Joint Compound Ceiling	Ceilings and Walls throughout	F – Good	2,300 SF
and Wall System	the Structure	Condition	

Note: F - Friable

NF - Non-Friable

EMERALD, INC., CONDUCTED THE SURVEY TO THE BEST OF ITS ABILITY, ADHERING TO INDUSTRY STANDARDS. THE QUANTITIES PROVIDED IN THIS REPORT ARE APPROXIMATE AND SHALL SERVE AS A BASIS FOR ABATEMENT BID SUBMITTALS. IF ADDITIONAL SUSPECT MATERIALS ARE IDENTIFIED DURING RENOVATION OR DEMOLITION ACTIVITY, THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE BUILDING OWNER'S REPRESENTATIVE.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the inspection of August 15, 2024, and the analytical results from the samples collected and tested by an independent laboratory, the dilapidated residential building located at 1531 Illery Rd. in Sumter, S.C., does contain friable ACM, as per Table 1. Such materials will have to be removed and properly disposed by a S.C. licensed abatement contractor per SC DHEC Bureau of Air Quality Asbestos Regulation 61-86.1 effective May 27, 2011, prior to demolition activities involving the asbestos-containing materials.

6.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection of August 15, 2024. Emerald, Inc., their representative and this report make no representation and/or assumptions as to past conditions or future occurrences. The information, conclusions and recommendations provided herein do not constitute as legal or medical advice. It is further understood that Emerald, Inc. makes no representations or warranties of any kind. Nor are such representations or warranties to be implied with respect to the data furnished. Emerald, Inc. assumes no responsibility with respect to the customers and its employees use thereof.

The information provided herein applies only to the subject property as it existed during Emerald, Inc.'s site visit. If this site's use and/or conditions change, information, observations and recommendations found herein would no longer apply. This report is intended to be used in its entirety. No excerpts may be taken to typify the findings of this survey. Emerald, Inc. shall not be liable for any special, consequential and/or exemplary damages resulting, in whole or in part, from the customer's use of the data provided. It was not within the scope of this investigation to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Our selection of sample locations and frequency is based upon our observations and the assumption that like materials in the same are homogeneous.

Emerald, Inc. conducted the survey to the best of its ability using the standards of the industry. In the event additional materials are found to contain asbestos, Emerald, Inc. shall not be liable for any failure of such findings during its initial survey.

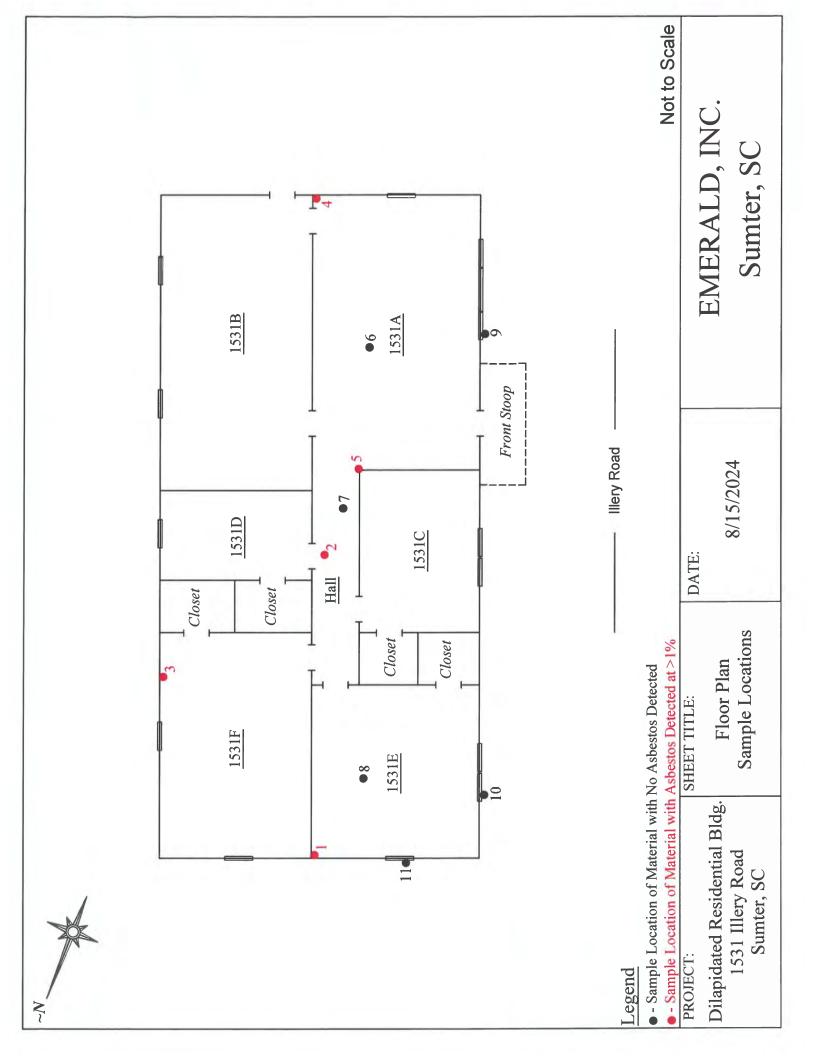
6

7.0 APPENDICES

APPENDIX A.	Site Plan
APPENDIX B.	Asbestos Sample Log
APPENDIX C.	Chain of Custody & Analytical Results
APPENDIX D.	Building Inspector Licenses
APPENDIX E.	Site Photographs

APPENDIX A SITE PLAN





APPENDIX B

ASBESTOS SAMPLE LOG

EMERALD, INC. ASBESTOS SAMPLE LOG

PROJECT NAME: Sumter City/County Project: 1531 Illery Rd. ADDRESS: 1531 Illery Rd., Sumter, S.C.

DATE: 8/15/2024 INSPECTOR: Dalton Reames

		LOCATION								POTE	NTIAL F	FOR FU	POTENTIAL FOR FUTURE DISTURBANCE	ISTURB	ANCE	
								APPROX.		CONTACT		VIBR/	VIBRATION		AIR EROSION	SION
SAMPLE #	FLOOR	ROOM	EXACT	DESCRIPTION	CONDITION	TYPE	F/NF	SF/LF	н	Σ	-	H	M L	H	Z	L
1531-1		1531E	Wall										-	-		
1531-2		Hall	Ceiling	:												
1531-3	First	1531F	Wall	Sheetrock Ceiling and Wall Svstem	IJ	S	u.	2,300 SF	×			×		×		
1531-4		1531A	Wall													
1531-5		1531A	Wall													
1531-6		1531A														
1531-7	First	Hall	Ceiling	Spray-applied Ceiling Texture	ŋ	s	ш	840 SF	×			×		×		
1531-8		1531E												1		
1531-9																
1531-10	Exterior	Windo	Window Units	Exterior Window Glaze	IJ	S	ш	336 LF	×			×		×		
1531-11																
1531-12																
1531-13		Roof		Brick-colored Roof Shingles	IJ	S	ш	1,100 SF	×			×		×		
1531-14														_		
1531-15																
1531-16		Roof		Roofing Felt	ŋ	s	Ľ.	1,100 SF	×			×		×		
1531-17																
Note:	ted chara	cters indica	ate materia	Red characters indicate material with asbestos detected at 3%.												
<u>Condition</u> G= Good D= Damaged	- Domonood Domonood			<u>Type</u> S= Surface TSI= Thermal Systems Insulation M – Miscollanoous		<u>E/NF</u> F= Fri NF= N	<u>E/NF</u> F= Friable NF= Non Friable	a		Potentia H= High M= Mod	<u>Potential for Fu</u> H= High M= Moderate	uture Di	Potential for Future Disturbance H= High M= Moderate	e		
DIFICATIL	su= significantiy uamaged			IVI= Iviisceilaneous						L= LOW	_					

APPENDIX C

CHAIN OF CUSTODY & ANALYTICAL RESULTS



Attention: Ronny Lowder

Emerald, Inc. 2520 Tahoe Drive PO Box 3050 Sumter, SC 29151

EMSL Analytical, Inc.

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

Project: Sumter County Project : 1531 Illery Rd (Sumter County)

EMSL Order: 022404736 Customer ID: EMER51 Customer PO: Project ID: Sumter County

Phone:	(803) 469-5454
Fax:	(803) 775-1970
Received Date:	08/19/2024 10:40 AM
Analysis Date:	08/28/2024
Collected Date:	

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
1531-11 022404736-0015	Window Glaze	Gray/Beige Non-Fibrous Homogeneous	99.81 Other	0.19 Fibrous_Other	No Asbestos Detected
			Talc fibers present.		
1531-14 022404736-0016	Roof Shingles	Brown/Gray/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
1531-17 022404736-0017	Roofing Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Stephen Bennett (3)

to ho

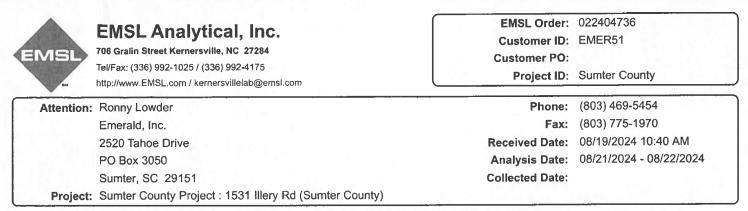
Stephen Bennett, Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/28/2024 17:11:31

ASB_PLMEPANOB_0012_0002 Printed 8/28/2024 5:12:57PM



Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes	stos	Asbestos			
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре			
1531-1-Joint Compound	Sheetrock System	Tan Non-Fibrous		20% Ca Carbonate 77% Non-fibrous (Other)	3% Chrysotile			
022404736-0001		Homogeneous						
1531-1-Tape	Sheetrock System	Tan Fibrous	100% Cellulose		None Detected			
022404736-0001A		Homogeneous			New Detected			
1531-1-Sheetrock	Sheetrock System	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected			
	<u></u>	Heterogeneous			Desiding Days (Net Asseluted)			
1531-2-Joint Compound	Sheetrock System				Positive Stop (Not Analyzed)			
022404736-0002		D	40% O-II.	00% New Shreve (Other)	None Detected			
1531-2-Sheetrock	Sheetrock System	Brown/Gray Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Delected			
1531-3-Joint Compound	Sheetrock System				Positive Stop (Not Analyzed)			
roon-o-some compoditu	Shourook Oystem				. course orep (nor runnyred)			
022404736-0003	Calific Street	5.00.00						
1531-3-Sheetrock	Sheetrock System	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected			
022404736-0003A		Heterogeneous						
1531-4-Joint Compound	Sheetrock System				Positive Stop (Not Analyzed)			
022404736-0004			and the second second second					
1531-4-Tape	Sheetrock System	Tan Fibrous	100% Cellulose		None Detected			
022404736-0004A		Homogeneous						
1531-4-Sheetrock	Sheetrock System	Brown/Gray Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected			
022404736-0004B		Heterogeneous						
1531-5-Joint Compound	Sheetrock System				Positive Stop (Not Analyzed)			
022404736-0005								
1531-5-Tape	Sheetrock System	Tan Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected			
022404736-0005A		Homogeneous						
1531-5-Sheetrock	Sheetrock System	Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected			
022404736-0005B		Heterogeneous						
1531-6	Spray-applied Ceiling Texture	Gray/White Non-Fibrous		20% Ca Carbonate 10% Mica	None Detected			
022404736-0006		Heterogeneous		70% Non-fibrous (Other)				
1531-7	Spray-applied Ceiling Texture	White Non-Fibrous		20% Ca Carbonate 10% Mica	None Detected			
022404736-0007		Heterogeneous		70% Non-fibrous (Other)				
1531-8	Spray-applied Ceiling Texture	Tan/White Non-Fibrous		20% Ca Carbonate 20% Mica	None Detected			
022404736-0008		Heterogeneous	No. CO. AND CAMPACITY OF	60% Non-fibrous (Other)				

Initial report from: 08/22/2024 10:55:09



706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404736 Customer ID: EMER51 Customer PO: Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbesto		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
1531-9 022404736-0009	Window Glaze	Gray/White Non-Fibrous Homogeneous	<1% Fibrous (Other)	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
1531-10 022404736-0010	Window Glaze	Gray/White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
1531-12 022404736-0011	Roof Shingles Red/Black 5% Glass 95% Non-fibro Fibrous		95% Non-fibrous (Other)	None Detected	
1531-13 022404736-0012	Roof Shingles	Red/Black Fibrous Heterogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
1531-15 022404736-0013	Roofing Felt	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
1531-16 022404736-0014	Roofing Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected

Analyst(s)

phon how

Stephen Bennett, Laboratory Manager or Other Approved Signatory

Bobby Wheatley (12) Cameron Evans (6)

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report matrics and therefore EMSL recommends gravimetic reduction, approval, or endorsement by NVLAP, NIST or analysec of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetic reduction prior to analysis . Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 08/22/2024 10:55:09

EMS EMEL ANALYTICAL, INC.

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

)22404736

PHONE: FAX:

Company Name : Emer	ald, Inc.		EMSL Custo	mer iD:							
Street: P.O. Box 3050			City: Sumter	ce: SC							
Zip/Postal Code: 29151		Country: US		the second s	54	Fax #: 803-4					
Report To (Name): Ronny	/ Lowder		Telephone #: 803-469-5454 Fax #: 803-469-5465 Please Provide Results: Fax ✓ Email								
Email Address: rlowder(
Project Name/Number: S			Purchase Or EMSI Project	rder: ct ID (Internal	lise On	[v]					
U.S. State Samples Taker		Toject 1991 mery ru	CT Samples				dential/Tax Exempt				
		ill to: 🛛 Same 🔲 Different -	- If Bill to is Different note instructions in Comments**								
		Third Party Billing requires write Turnaround Time (TAT)	and the second se	the second se	<u>у</u>						
3 Hour 6 1	Hour	24 Hour 48 Hour	72 Ho	ur 🔳 9	6 Hour	1 Week	2 Week				
*For TEM Air 3 hr through 6 hr, authonzation form h	, please call and or this service.	ead to schedule *There is a premium Analysis completed in accordance	n charge for 3 Ho with EMSL's Terr	ur TEM AHERA	or EPA Le	in the Analytical I	will be asked to sign an Price Guide				
PCM - Air Check if sam	and the second se	TEM - Air 4-4.5hr TAT (TEM- Dust							
from NY		AHERA 40 CFR, Part 76	3	Microva	- ASTN	1 D 5755					
w/ OSHA 8hr. TWA		NIOSH 7402		Wipe - A			잘 보험 같은 동네가?				
PLM - Bulk (reporting lim	it)	EPA Level II				n (EPA 600/J-9	93/167)				
PLM EPA 600/R-93/116		☐ ISO 10312		Soil/Rock/							
PLM EPA NOB (<1%)		TEM - Bulk			A 600/R-	93/116 with mi	illing prep (<1%)				
Point Count							illing prep (<0.25%)				
400 (<0.25%) 1000 ((<0.1%)	NYS NOB 198.4 (non-fria	ble-NY)				illing prep (<0.1%)				
Point Count w/Gravimetric		Chatfield SOP	COO 0.5			via Filtration Pr					
400 (<0.25%) 1000 (TEM Mass Analysis-EPA	600 sec. 2.5	c. 2.5 TEM Qualitative via Drop Mount Prep							
NYS 198.1 (friable in N	IY)	TEM - Water: EPA 100.2		(BC only)							
NYS 198.6 NOB (non-f	riable-NY)	Fibers >10µm Waste [Drinking	Drinking Other:							
NYS 198.8 SOF-V NIOSH 9002 (<1%)		All Fiber Sizes Waste Drinking									
Check For Positive St	op – Clearly	Identify Homogenous Grou	p Filter	Pore Size (A	ir Samp	les): 0.8	.m0.45µm				
Samplers Name: Dalt				Signature:	Det	He Fae	2				
Sample #		Sample Descript	ion			e/Area (Air) # (Bulk)	Date/Time Sampled				
Gallipie #	Description					# (Duik)	8/15/2024				
	Descript	ions on Following Page	9				0/10/2024				
					-						
Client Sample # (s): 15	31-1 thru	1531-17 -			Total # c	of Samples: 1	7				
Relinquished (Client):	1 often		: 8/16/5	/			8700				
	roua	0		(
Received (Lab): Comments/Special Instru	ctions:	Date	•			Time					
Note. Sumter County Project											
			2								
		Page 1 of	2 pages			2					
Controlled Document - Asbestos COC -	- R10 - 05/09/2016					,	1				

Unsle



Relinquished:

Relinquished[.]

Received:

Received:

Client Sample # (s) 1531-1 thru 1531-17

CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

Date:

Date:

Date:

Date:

Total Samples #

Time.

Time:

Time.

Time.

17

EMSL Analytical, Inc. 706 Gralin Street

Kernersville, NC 27284

Phone [.]	(336)	992-1025
Fax.	(336)	992-4175
http://	/www.	emsl.com

SAMPLE NUMBER	SAMPLE DESCRIPTION	VOLUME (if applicable)
1531-1	Sheetrock System	
1531-2	н	
1531-3	" Samde	AU Layors
1531-4	п	1
1531-5	Н	
1531-6	Spray-applied Ceiling Texture	
1531-7		
1531-8	н	
1531-9	Window Glaze	
1531-10	11	
	H	
1531-12	Roof Shingles	
1531-13	11	
	U	
1531-15	Roofing Felt	
1531-16		
	11	
	and the second	
	·····	

2 of 2

APPENDIX D

BUILDING INSPECTOR LICENSES

SCDHEC ISSUED Asbestos ID Card

RONNY LOWDER



CONSULTMP ASB-32201 09/1 CONSULTBI BI-01497 09/1 SUPERAHERA SA-00715 09/1

.

Expiration Date: 09/18/24 09/18/24 09/17/24

1



John Dalton Reames, Jr.



AIRSAMF CONSULT CONSULT SUPERAF

PLER AS-00287 TBI BI-00945 TPD PD-00200 HERA SA-01252	Expiration Date: 11/07/24 11/06/24 08/07/25 11/07/24
--	--

APPENDIX E

SITE PHOTOGRAPHS

Sumter City/County Project: 1531 Illery Rd., Sumter, S.C.

Photo #4 No Asbestos Detected in Window Glaze

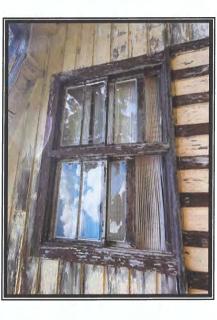


Photo #2 No Asbestos Detected in Roofing Shingles or Felt Layer

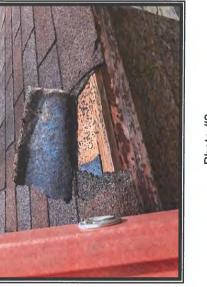


Photo #1 North-facing View of the Residential Structure



Photo #3 No Suspect Materials in Crawl Space Area

Sumter City/County Project: 1531 Illery Rd., Sumter, S.C.

Photo #8 No Asbestos Detected in Spray-applied Ceiling Texture





Photo #6 Asbestos Detected at 3% in Sheetrock Wall System

Photo #7 View Depicting Asbestos-containing Sheetrock Ceiling System





Photo #5 View Depicting Uncovered, Hardwood Floors

Emerald, Inc. CONSULTING AND ENGINEERING SERVICES IN ENVIRONMENTAL AFFAIRS

2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE: www.emeraldinc-us.com TELEPHONE (803) 469-5454 FAX (803) 469-5465

ASBESTOS SURVEY REGARDING SUMTER CITY/COUNTY PROJECT DILAPIDATED MOBILE HOME STRUCTURE 1561 ILLERY ROAD SUMTER, SOUTH CAROLINA



Prepared for:

City of Sumter P.O. Box 1449 Sumter, South Carolina 29151

Prepared by:

Emerald, Inc. P.O. Box 3050 Sumter, South Carolina 29151

Date of Inspection: August 15, 2024 Date of Report: August 28, 2024

FOREWORD

This report was prepared by Emerald, Inc. of Sumter, South Carolina, for the City of Sumter, regarding the dilapidated mobile home structure located at 1561 Illery Rd. in Sumter, S.C. The contents of this report are confidential and intended for the use of the client only.

J. Dalton Reames, Jr., S.C. Licensed Building Inspector, conducted the inspection, and Ronny L. Lowder, S.C. Licensed Building Inspector and Management Planner, prepared this report. Any questions or comments concerning this report should be directed to Ronny L. Lowder at either (803) 469-5454 or via email at rlowder@emeraldincus.com.

J. Dalton Reames, Jr.

SC Licensed Building Inspector License Number BI-00945 Expiration Date: 11/06/24

SC Licensed AHERA Supervisor License Number SA-01252 Expiration Date: 11/07/24

SC Licensed Air Sampler License Number AS-00287 Expiration Date: 11/07/24

SC Licensed Project Designer License Number PD-00200 Expiration Date: 08/07/25

owder, CHMM

SC Licensed Building Inspector License Number BI-01497 Expiration Date: 09/18/24

SC Licensed AHERA Supervisor License Number SA-00715 Expiration Date: 09/17/24

SC Licensed Mgmt Planner License Number ASB-32201 Expiration Date: 09/18/24

TABLE OF CONTENTS

1.0	INTRODUCTION AND OBJECTIVE	1
2.0	SURVEY METHODOLOGY	1
3.0	HAZARD ASSESSMENT FACTORS (ASBESTOS)	3
3.1	Homogeneous Areas	3
3.2	Hazard Factors	3
4.0	ANALYSIS AND RESULTS	4
4.1	Laboratory Analysis	4
4.2	Survey Results	4
5.0	CONCLUSIONS AND RECOMMENDATIONS	6
6.0	ASSUMPTIONS AND LIMITATIONS	7
7.0	APPENDICES	8

1.0 INTRODUCTION AND OBJECTIVE

Emerald, Inc. was requested to conduct an Asbestos Survey of the vacant mobile home unit located at 1561 Illery Rd. in Sumter, S.C., to identify the presence of any asbestos-containing materials (ACM), prior to demolition activities. The inspection was authorized by Mr. John Macloskie, Codes Director, with the City of Sumter. The inspection included identification and assessment of the condition of suspect asbestos-containing materials, either friable or non-friable, on the interior and exterior portions of the structure.

This report is a compilation of the inspection and its results.

2.0 SURVEY METHODOLOGY

On August 15, 2024, Emerald, Inc. conducted an Asbestos Survey on the building at the stated address. J. Dalton Reames, Jr., South Carolina Licensed Building Inspector, conducted the inspection.

Estimated to have been prefabricated circa 1990 for residential purposes, the single-story mobile home structure contains approximately 1,081 square feet of interior space. The basic building construction is as follows:

- Wood Framing Built on a Metal Trailer Frame
 - Sheet Metal Exterior Siding
- Curved Wood-framed Roof Structure
 - Sheet Metal Roofing Panels with Silver Sealant
- Wood Floor Substrate
 - Resilient Sheet Flooring Layers
 - 12 x 12 Floor Tiles with Yellow Mastic
- Wood-framed Interior Walls
 - Sheetrock with Joint Compound Sections in Room 1561F

- Wood Paneling over Framing in Most of Unit
- Wooden Ceiling Components Covered with Sheetrock Sections
 - Stippled Texture over Sheetrock and Wood-panel Patch Sections
- Climate Control Equipment
 - Furnace Heating Unit
 - Foil-wrapped, Fiberglass-insulated Floor Ducts in Crawl Space
 - Window-mounted Air Conditioning Units

Future use of the property, following demolition activities, is unknown.

The survey included a visual inspection to identify the presence of material suspected of containing asbestos. This identification was based on the experience and training of the inspector. A total of forty (40) samples were collected during the survey for laboratory analysis, based upon the required EPA and SC DHEC sampling matrix. Samples were placed in individual containers, labeled and numbered according to the sampling schemes (1561-1 through 1561-40). Per SC DHEC Asbestos Regulations, the independent laboratory is required to sample all layers of each sample. As a result, thirty-six (36) samples were analyzed by the lab, via Polarized Light Microscopy (PLM) while utilizing Positive Stop, and four (4) samples were analyzed, via Transmission Electron Microscopy (TEM). Appendix B contains the Asbestos Survey Log kept during the inspection which identifies the samples collected by sample number, sample type, location and condition assessment, along with any comments. The samples were shipped to EMSL Analytical, Inc. in Kernersville, North Carolina for analysis. Analysis and results are discussed in Section 4.0.

3.0 HAZARD ASSESSMENT FACTORS (ASBESTOS)

3.1 Homogeneous Areas

The sample collection was typically conducted by homogeneous materials, i.e., any materials of the same type regarding uniformity throughout in structure or make-up and appearance (color, texture, and/or date of construction/application). Homogeneous materials can be further classified as surfacing materials, thermal system insulation and miscellaneous materials. Miscellaneous materials include ceiling tiles, floor tiles, roofing, caulking, and glazing, etc.

3.2 Hazard Factors

The samples of suspect material collected were classified as either friable (F) or non-friable (NF). Friable means the material can be crumbled, pulverized, or reduced to powder by ordinary hand pressure. Materials initially determined to be non-friable can receive a reclassification of friable if the material is damaged, thereby providing an avenue for release of asbestos fibers. Friable asbestos-containing material (ACM) has been determined by EPA and OSHA to be a greater hazard (health risk) than non-friable ACM. In assessing the fiber release potential, the current condition of the suspect materials sampled was noted in the Asbestos Survey Log (Appendix B). The condition was denoted as good, damaged, or significantly damaged. Current condition is a factor used to assess the potential for fiber release. Other factors used to determine potential fiber release include air movement, surface type, and area activity as related to human occupancy.

3

4.0 ANALYSIS AND RESULTS

4.1 Laboratory Analysis

Bulk samples were analyzed by EMSL Analytical, Inc. using Polarized Light Microscopy (PLM) with Dispersion Staining Techniques (EPA Bulk Analysis Method 600/R-93/116). This method utilizes part of the bulk sample which is mounted on a slide and exposed to an oil of specific refractive index. This prepared slide is then subjected to a variety of optical tests.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of asbestos content are then determined through visual estimating. Although this is an estimate, any material containing greater than one percent of any type of asbestos is classified as ACM by the EPA. Any material classified as ACM must be handled accordingly.

Under the revised South Carolina Asbestos Regulation 61-86.1 effective June 27, 2008, any analysis of non-friable organically bound (NOB) material that is found to be negative via PLM testing, must have confirmation testing via Transmission Electron Microscopy (TEM) on one sample from each media; therefore, four (4) samples were analyzed by the lab, via TEM testing.

4.2 Survey Results

Samples were collected and tested from various suspect materials, as referenced in Appendix B, Asbestos Sample Log. Samples of 12 x 12 floor tiles and associated yellow mastic, cream-colored sheet flooring and green stylized sheet flooring were verified as negative, via TEM analysis.

Appendix C contains a copy of the analytical results from the laboratory. of the analytical results from the laboratory.

4

TABLE 1 DILAPIDATED MOBILE HOME STRUCTURE 1561 ILLERY ROAD SUMTER, SOUTH CAROLINA ASBESTOS-CONTAINING MATERIALS (ACM)

Description	Location	Category (F/NF)	Approx. SF/LF		
Sheetrock Wall System	Sheetrock Walls of Room 1561F	F – Good Condition	320 SF		
Sheetrock Ceiling System	Sheetrock Ceilings throughout the Structure, as well as in Piles of Floor Debris	F – Significantly Damaged Condition	1,081 SF		
Stippled Ceiling Texture (Applied to Sheetrock Ceiling System)	Surface of Sheetrock Ceilings throughout the Structure, as well as in Piles of Floor Debris	F – Damaged Condition	1,081 SF		
Silver Roof Sealant	Surface of Metal Roof Sections	NF – Cat. I – Good Condition	1,085 SF of Metal Panels/Sections		
Exterior Window Frame Caulk	Exterior Frame Seams of Window Units	NF – Cat. II – Good Condition	256 LF		

Note: F - Friable

NF - Non-Friable

EMERALD, INC., CONDUCTED THE SURVEY TO THE BEST OF ITS ABILITY, ADHERING TO INDUSTRY STANDARDS. THE QUANTITIES PROVIDED IN THIS REPORT ARE APPROXIMATE AND SHALL SERVE AS A BASIS FOR ABATEMENT BID SUBMITTALS. IF ADDITIONAL SUSPECT MATERIALS ARE IDENTIFIED DURING RENOVATION OR DEMOLITION ACTIVITY, THE CONTRACTOR SHALL CEASE WORK AND NOTIFY THE BUILDING OWNER'S REPRESENTATIVE.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the inspection of August 15, 2024, and the analytical results from the samples collected and tested by an independent laboratory, the dilapidated mobile home structure located at 1561 Illery Rd. in Sumter, S.C., does contain friable and non-friable ACM, as per Table 1. Such materials will have to be removed and properly disposed by a S.C. licensed abatement contractor per SC DHEC Bureau of Air Quality Asbestos Regulation 61-86.1 effective May 27, 2011, prior to demolition activities involving the asbestos-containing materials.

6.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection of August 15, 2024. Emerald, Inc., their representative and this report make no representation and/or assumptions as to past conditions or future occurrences. The information, conclusions and recommendations provided herein do not constitute as legal or medical advice. It is further understood that Emerald, Inc. makes no representations or warranties of any kind. Nor are such representations or warranties to be implied with respect to the data furnished. Emerald, Inc. assumes no responsibility with respect to the customers and its employees use thereof.

The information provided herein applies only to the subject property as it existed during Emerald, Inc.'s site visit. If this site's use and/or conditions change, information, observations and recommendations found herein would no longer apply. This report is intended to be used in its entirety. No excerpts may be taken to typify the findings of this survey. Emerald, Inc. shall not be liable for any special, consequential and/or exemplary damages resulting, in whole or in part, from the customer's use of the data provided. It was not within the scope of this investigation to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. Our selection of sample locations and frequency is based upon our observations and the assumption that like materials in the same are homogeneous.

Emerald, Inc. conducted the survey to the best of its ability using the standards of the industry. In the event additional materials are found to contain asbestos, Emerald, Inc. shall not be liable for any failure of such findings during its initial survey.

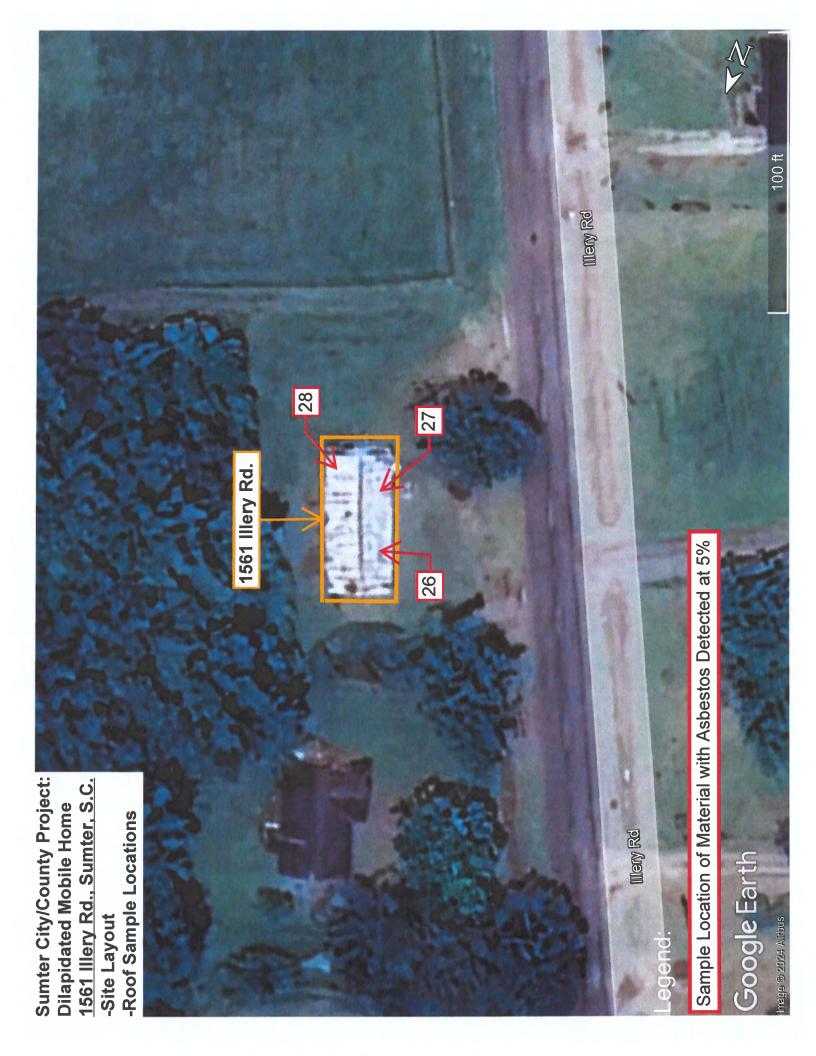
7

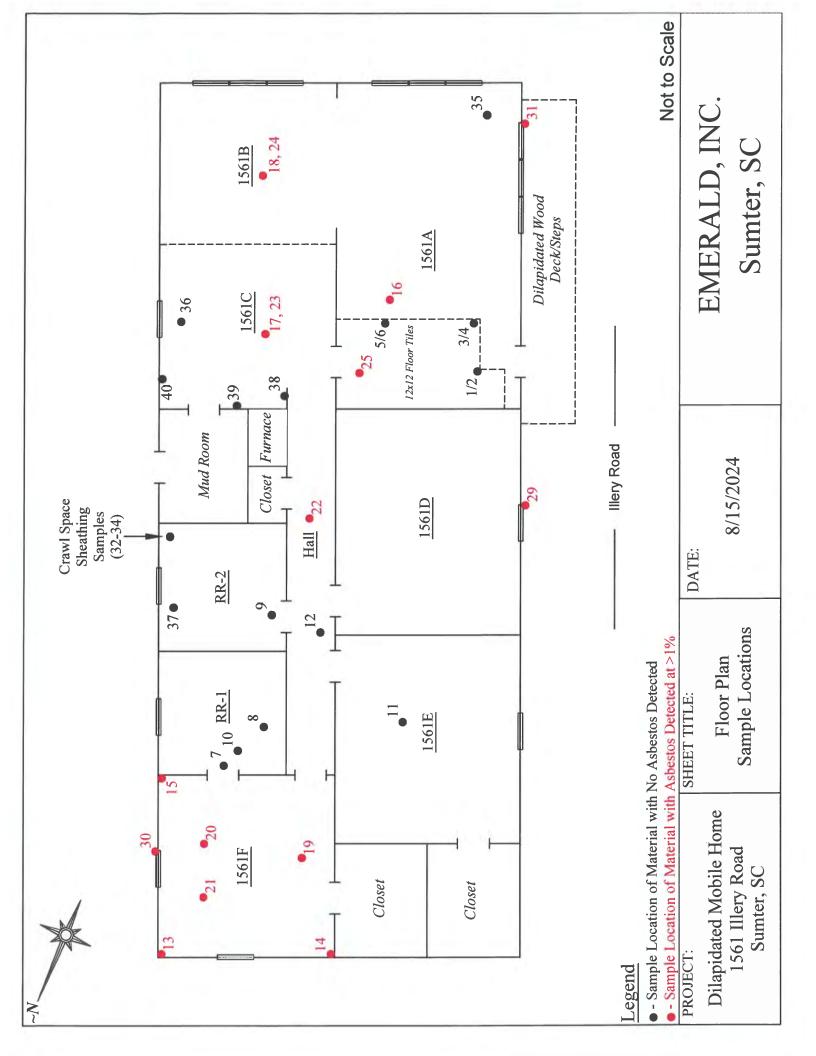
7.0 APPENDICES

APPENDIX A.	Site Plan
APPENDIX B.	Asbestos Sample Log
APPENDIX C.	Chain of Custody & Analytical Results
APPENDIX D.	Building Inspector Licenses
APPENDIX E.	Site Photographs

APPENDIX A

SITE PLAN





APPENDIX B

ASBESTOS SAMPLE LOG

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/Project: 1561 Illery Rd. ADDRESS: 1561 Illery Rd., Sumter, S.C.

DATE: <u>8/15/2024</u> INSPECTOR: <u>Dalton Reames</u>

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		TYPE			2	M				Σ			Σ			S				S				<u>E/NF</u> F= Fri NF= N
		CONDITION			Ľ	ס				U			U			U				SD				
		DESCRIPTION	Cream 12x12 Floor Tile	Yellow Mastic	Cream 12x12 Floor Tile	Yellow Mastic	Cream 12x12 Floor Tile	Yellow Mastic		Cream Square-design Sheet Flooring	2		Green and Cream Stylized-design Sheet Flooring			Sheetrock wall System Koom 1561F				Sheetrock Ceiling System			Red characters indicate materials with asbestos detected at >1%.	<u>Type</u> S= Surface TSI= Thermal Systems Insulation M= Miscellaneous
	a subset	EXACT		Ì	Eloor	000			Over Green	Sheet	Flooring		Floor			Walls				Ceiling			te material	
LOCATION		ROOM			15610	U TOOT			RR-1	RR-1	RR-2	RR-1	1561E	Hall		1561F		1561A	1561C	1561B	1561F	1561F	ters indica	
		FLOOR			Firct	1011				First			First			First				First			Sed charac	ly Damaged
		SAMPLE #	1561-1	1561-2	1561-3	1561-4	1561-5	1561-6	1561-7	1561-8	1561-9	1561-10	1561-11	1561-12	1561-13	1561-14	1561-15	1561-16	1561-17	1561-18	1561-19	1561-20	Note:	<u>Condition</u> G= Good D= Damaged SD= Significantly Damaged

Page 1 of 2

EMERALD, INC. ASBESTOS SAMPLE LOG

> PROJECT NAME: Sumter City/Project: 1561 Illery Rd. ADDRESS: 1561 Illery Rd., Sumter, S.C.

DATE: <u>8/15/2024</u> INSPECTOR: <u>Dalton Reames</u>

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		F/NF			щ				RF			NF			ц			NF			Ľ			<u>E/NF</u> F= Friable NF= Non Friable
		TYPE			S				Σ			Σ			Σ			Σ			Σ			<u>E/NF</u> F= Fri NF= N
		CONDITION			۵				IJ			U			۵			U			U			
		DESCRIPTION			Stippled Ceiling Texture				Silver Roof Sealant			Window Frame Caulk			Cellulose-based Floor Sheathing			HVAC Duct Tape			Simulated Brick Wall System		Red characters indicate materials with asbestos detected at >1%	<u>Type</u> S= Surface TSI= Thermal Systems Insulation M= Miscellaneous
		EXACT			Ceiling				ace			me Seams			ostrate in ea		-	e Control			Walls		te materia	
LOCATION		ROOM	1561F	Hall	1561C	1561B	1561A		Metal Roof Surface			Window Frame Seams		L	Underside of Floor Substrate in Crawl Space Area		i	Floor-mounted Climate Control Vents			1561C		ters indicat	
and the second		FLOOR			First		L		Met			Exterior			Underside Cra		i	Floor-mou			First		Red charac	tly Damaged
		SAMPLE #	1561-21	1561-22	1561-23	1561-24	1561-25	1561-26	1561-27	1561-28	1561-29	1561-30	1561-31	1561-32	1561-33	1561-34	1561-35	1561-36	1561-37	1561-38	1561-39	1561-40	Note:	<u>Condition</u> G= Good D= Damaged SD= Significantly Damaged

APPENDIX C

CHAIN OF CUSTODY & ANALYTICAL RESULTS



Atten

EMSL Analytical, Inc.

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

EMSL Order: 022404735 Customer ID: EMER51 **Customer PO:** Project ID: Sumter County

ttention:	Ronny Lowder	 	
	Emerald, Inc.		
	2520 Tahoe Drive		
	PO Box 3050		
	Sumter, SC 29151		
Project:	Sumter County Project : 1561 Illery Rd. (Sumter County)		

Phone:	(803) 469-5454
Fax:	(803) 775-1970
Received Date:	08/19/2024 10:40 AM
Analysis Date:	08/28/2024
Collected Date:	

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
1561-5 022404735-0035	Broken-design 12x12 Floor Tile	Tan/Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
1561-6 022404735-0036	Yellow Mastic	Tan/Yellow Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
1561-9 022404735-0037	Cream Sheet Flooirng	Gray/Tan/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
1561-12 022404735-0038	Green Stylized Sheet Flooirng	Brown/Tan/Green Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Stephen Bennett (4)

In his

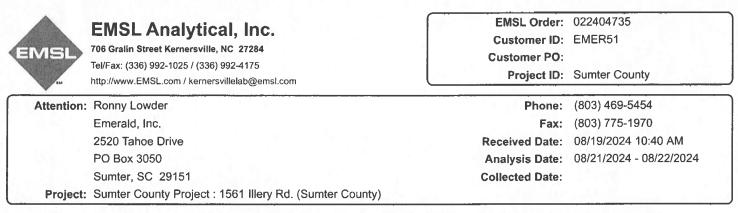
Stephen Bennett, Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 08/28/2024 17:09:02

ASB_PLMEPANOB_0012_0002 Printed 8/28/2024 5:10:28PM



Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample			Asbestos		
	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
1561-1	Broken-design 12x12 Floor Tile	Beige Non-Fibrous Homogeneous	2% Synthetic	20% Ca Carbonate 78% Non-fibrous (Other)	None Detected
1561-2	Yellow Mastic	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected
022404735-0002		Homogeneous			
1561-3	Broken-desig 12x12 Floor Tile	White/Beige Non-Fibrous	2% Synthetic	20% Quartz 78% Non-fibrous (Other)	None Detected
022404735-0003		Homogeneous			
1561-4	Yellow Mastic	Yellow/Gold Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected
022404735-0004		Homogeneous			
1561-7 022404735-0005	Cream Sheet Flooirng	Beige Fibrous	20% Cellulose <1% Glass	80% Non-fibrous (Other)	None Detected
1561-8	Cream Sheet Flooirng	Heterogeneous Gray/Tan/Beige	5% Cellulose	94% Non-fibrous (Other)	None Detected
022404735-0006		Fibrous Heterogeneous	1% Glass		
1561-10	Green Stylized Sheet Flooirng	Gray/Yellow/Green Fibrous	25% Cellulose 2% Synthetic	73% Non-fibrous (Other)	None Detected
022404735-0007	· · · · · · · · · · · · · · · · · · ·	Heterogeneous		and the second second	
1561-11	Green Stylized Sheet Flooirng	Tan/Yellow/Green Fibrous	20% Cellulose 8% Synthetic	72% Non-fibrous (Other)	None Detected
022404735-0008		Heterogeneous			and the second
1561-13-Joint	Sheetrock Wall	White		20% Ca Carbonate	3% Chrysotile
Compound	System	Non-Fibrous Homogeneous		77% Non-fibrous (Other)	
022404735-0009	Chasterek 10/sll	Tee	100% O-II.I		Alexa Datastad
1561-13-Tape 022404735-0009A	Sheetrock Wall System	Tan Fibrous Homogeneous	100% Cellulose		None Detected
1561-13-Sheetrock	Sheetrock Wall System	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404735-0009B	Cystoni	Heterogeneous			
1561-14-Joint Compound	Sheetrock Wall System				Positive Stop (Not Analyzed
022404735-0010					
1561-14-Tape	Sheetrock Wall System	Tan Fibrous	100% Cellulose		None Detected
022404735-0010A		Homogeneous			
1561-14-Sheetrock	Sheetrock Wall System	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404735-0010B		Heterogeneous			
1561-15-Joint Compound	Sheetrock Wall System				Positive Stop (Not Analyzed
022404735-0011					

Initial report from: 08/22/2024 10:56:07



706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@emsl.com EMSL Order: 022404735 Customer ID: EMER51 Customer PO:

Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Арреагалсе	<u>Non-Asbe</u> % Fibrous	% Non-Fibrous	<u>Asbestos</u> % Type
1561-15-Tape	Sheetrock Wall	Beige	100% Cellulose	76 NOTI-FINIOUS	None Detected
022404735-0011A	System	Fibrous Homogeneous	100% Cellulose		None Delected
1561-15-Sheetrock	Sheetrock Wall System	Brown/Gray Fibrous	15% Cellulose	85% Non-fibrous (Other)	None Detected
022404735-0011B		Heterogeneous			
1561-16-Joint Compound	Sheetrock Ceiling System	White Non-Fibrous		20% Ca Carbonate 77% Non-fibrous (Other)	3% Chrysotile
022404735-0012		Homogeneous			
1561-16-Sheetrock	Sheetrock Ceiling System	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404735-0012A	0,0.0	Heterogeneous			
1561-17-Joint Compound	Sheetrock Ceiling System				Positive Stop (Not Analyzed
022404735-0013	Shartandi O-W	Press (Commission	40% 0 ** 1	000/ No. 71 (0/1)	No. 2 A A
1561-17-Sheetrock	Sheetrock Ceiling System	Brown/Gray Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
1561-18-Joint Compound	Sheetrock Ceiling System				Positive Stop (Not Analyzed
022404735-0014					
561-18-Sheetrock	Sheetrock Ceiling System	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404735-0014A	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Heterogeneous			
1561-19-Joint Compound	Sheetrock Ceiling System				Positive Stop (Not Analyzed
022404735-0015					
1561-19-Sheetrock	Sheetrock Ceiling System	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022404735-0015A		Heterogeneous			a the standard state
1561-20-Joint Compound	Sheetrock Ceiling System				Positive Stop (Not Analyzed
022404735-0016					
561-20-Sheetrock	Sheetrock Ceiling System	Brown/Gray Fibrous	20% Cellulose	80% Non-fibrous (Other)	None Detected
22404735-0016A		Homogeneous			and a shaked to Kee
1561-21	Stippled Ceiling Texture	Tan/White Non-Fibrous		20% Ca Carbonate 78% Non-fibrous (Other)	2% Chrysotile
22404735-0017		Heterogeneous			
561-22	Stippled Ceiling Texture				Positive Stop (Not Analyzed
022404735-0018	Official and Table				
561-23 22404735-0019	Stippled Ceiling Texture				Positive Stop (Not Analyzed
561-24	Stippled Ceiling Texture				Positive Stop (Not Analyzed
22404735-0020		Gald Street			
561-25	Stippled Ceiling Texture				Positive Stop (Not Analyzed
22404735-0021					
561-26	Silver Roof Sealant	Black/Silver Non-Fibrous		95% Non-fibrous (Other)	5% Chrysotile
22404735-0022		Heterogeneous			



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Project ID: Sumter County

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
1561-27	Silver Roof Sealant				Positive Stop (Not Analyzed	
022404735-0023		- <u>1. 1. 1. 1</u>	<u> </u>	the first state of the second state		
1561-29 022404735-0024	Window Caulk	Tan Non-Fibrous Homogeneous		10% Ca Carbonate 85% Non-fibrous (Other)	5% Chrysotile	
1561-30	Window Caulk				Positive Stop (Not Analyzed)	
022404735-0025	and the second					
1561-32	Sub-floor Sheathing	Brown/Green Fibrous	100% Cellulose		None Detected	
022404735-0026		Homogeneous		1.2.1.4 (Mar. 1997)		
1561-33	Sub-floor Sheathing	Brown/Green Fibrous	100% Cellulose		None Detected	
022404735-0027		Homogeneous				
1561-34	Sub-floor Sheathing	Gray/Tan/Green Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected	
022404735-0028		Homogeneous				
1561-35	Register Duct Tape	White/Black/Clear Fibrous	50% Synthetic	50% Non-fibrous (Other)	None Detected	
022404735-0029		Heterogeneous				
1561-36	Register Duct Tape	White/Silver/Clear Fibrous	50% Synthetic	50% Non-fibrous (Other)	None Detected	
022404735-0030		Heterogeneous				
1561-37	Register Duct Tape	Gray/Black/Rust Fibrous	<1% Cellulose 60% Synthetic	40% Non-fibrous (Other)	None Detected	
022404735-0031		Heterogeneous				
1561-38-Faux Brick	Faux Brick System	Red Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
	Four Brick Sustan	Homogeneous		70% 00 00000	None Detected	
1561-38-Thinset	Faux Brick System	Gray Non-Fibrous		70% Ca Carbonate 30% Non-fibrous (Other)	None Detected	
022404735-0032A		Heterogeneous				
1561-39-Faux Brick	Faux Brick System	Red Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected	
022404735-0033		Homogeneous				
1561-39-Thinset	Faux Brick System	Gray Non-Fibrous		70% Ca Carbonate 30% Non-fibrous (Other)	None Detected	
022404735-0033A		Heterogeneous	Contraction 1			
1561-40-Faux Brick	Faux Brick System	Orange Non-Fibrous	1% Glass	15% Ca Carbonate 84% Non-fibrous (Other)	None Detected	
022404735-0034		Homogeneous				
1561-40-Thinset	Faux Brick System	Gray/Tan Non-Fibrous	1% Cellulose	65% Quartz 10% Ca Carbonate	None Detected	
022404735-0034A		Heterogeneous		24% Non-fibrous (Other)		



706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / kernersvillelab@ernsl.com EMSL Order: 022404735 Customer ID: EMER51 Customer PO: Project ID: Sumter County

Analyst(s)

Bobby Wheatley (25) Scott Combs (11)

In

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations . The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis . Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 08/22/2024 10:56:07



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

22404 2

PHONE. FAX:

2

Company Name : Emer	ald, Inc.		EMSL Custo	mer ID:			
Street; P.O. Box 3050			City: Sumter			State/Provin	ce: SC
Zip/Postal Code: 29151	Telephone #: 803-469-5454 Fax #: 803-469-5465						
Report To (Name): Ronny	y Lowder		Please Prov	ide Results:	Fax	🗹 Email	
Email Address: rlowder		ic-us.com	Purchase O	rder:			
Project Name/Number: S	umter County P			ct ID (Internal			
U.S. State Samples Taker				: Commer			dential/Tax Exempt
	EMSL-BI	ill to: 🖸 Same 🔲 Different - Third Party Billing requires write				nts	
		Turnaround Time (TAT)					
	Hour [24 Hour 48 Hour	72 Ho		6 Hour	1 Week	
"For TEM Air 3 hr through 6 hi authorization form f	r, please call and for this service	ead to schedule. "There is a premiur Analysis completed in accordance	with EMSL's Terr	ur TEM AHERA	or EPA Le is located i	in the Analytical I	vill be asked to sign an Price Guide.
PCM - Air Check if san	nples are	TEM - Air 4-4.5hr TAT	AHERA only)	TEM- Dust			
from NY		AHERA 40 CFR, Part 76		Microvad	- ASTM	D 5755	
W/ OSHA 8hr. TWA		NIOSH 7402		Wipe - A			1
PLM - Bulk (reporting lim	it)	EPA Level II		·		(EPA 600/J-9	93/167)
PLM EPA 600/R-93/116		ISO 10312		Soil/Rock/V			
PLM EPA NOB (<1%)	,,	TEM - Bulk					illing prep (<1%)
Point Count							illing prep (<0.25%)
400 (<0.25%) 1000 ((<0.1%)	NYS NOB 198.4 (non-fria	ble-NY)				illing prep (<0.1%)
Point Count w/Gravimetric		Chatfield SOP	2			/a Filtration P	
400 (<0.25%) 1000 (TEM Mass Analysis-EPA	600 sec. 2.5			Ia Drop Mour	nt Prep 04/004 – PLM/TEM
NYS 198.1 (friable in N	IY)	TEM - Water: EPA 100.2		(BC only)			
NYS 198.6 NOB (non-1	friable-NY)	Fibers >10µm Waste	Drinking	Other:	1.1.1		
NYS 198.8 SOF-V NIOSH 9002 (<1%)		All Fiber Sizes Waste	Drinking				
Check For Positive St	op – Clearly	Identify Homogenous Grou	p Filter	Pore Size (Ai	ir Sampl	es): 0.8µ	im0.45µm
Samplers Name: Dalt	on Rear	mes	Samplers	Signature:	Da	the	est .
Sample #	5	Sample Descript	ion			e/Area (Air) # (Bulk)	Coate/Time Sampled
	Descripti	ons on Following Page	5				8/15/2024
	Descripti	ons on ronowing ray					0/10/2024
5	Sec. 1				in a s		Sectore and the sectore sectores and the sectores of the secto
		5 Yu 1 San 1					
· · · · · · · · · · · · · · · · · · ·	04.4.1	4504.40					
Client Sample # (s): 15	61-1 thru	1561-40		1	Fotal # o	f Samples: 4	
Relinquished (Client):	Atte	Date	: 8/16/0	2924		Time:	0900
Received (Lab):		Date	:			Time:	
Comments/Special Instru Note: Sumter County Project	uctions:						
			2				
		Page 1 of	2 pages				
Controlled Document - Asbestos COC -	- R10 - 05/09/2016			\cap	$\boldsymbol{\lambda}$		\bigcirc

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Time:

Time:

Time:

Time:



Received:

Relinquished:

Relinquished:

Received:

CHAIN OF CUSTODY

ASBESTOS LAB SERVICES

Date.

Date:

Date:

Date.

Client Sample # (s) 1561-1 thru 1561-40 Total Samples #.

ÉMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284

Phone: (336) 992-1025 Fax. (336) 992-4175 http://www.emsl.com

SAMPLE DESCRIPTION	VOLUME (if applicable
Broken-design 12x12 Floor Tile	
Yellow Mastic	
Broken-design 12x12 Floor Tile	
Yellow Mastic	
0	
Green Stylized Sheet Flooring	
Н	
Sheetrock Wall System	
" Sample Al	(Layers
Sheetrock Ceiling System	
"	
" > Sande ×	Il lavas
"	
"	
Stippled Ceiling Texture	
11 II I	
11	
R R	
Silver Roof Sealant	
н	
4	
Window Caulk	
0	
11	
Sub-floor Sheathing	
19	
N	
Register Duct Tape	
19	
Faux Brick System	
" > Sample All	(Layers
0	
	Broken-design 12x12 Floor Tile Yellow Mastic Broken-design 12x12 Floor Tile Yellow Mastic Broken-design 12x12 Floor Tile Yellow Mastic Cream Sheet Flooring " Green Stylized Sheet Flooring " Sheetrock Wall System " Sheetrock Ceiling System " Sheetrock Ceiling System " Stippled Ceiling Texture " Stippled Ceiling Texture " Stippled Ceiling Texture " Stippled Ceiling Texture " Stippled Ceiling Texture " Stippled Ceiling Texture " Stippled Ceiling Texture " Sub-floor Sheathing " Teaux Brick System " Sample All

2 of 2

APPENDIX D

BUILDING INSPECTOR LICENSES

SCDHEC ISSUED Asbestos ID Card

RONNY LOWDER



Expiration Date: ASB-32201 09/18/24 BI-01497 09/18/24 CONSULTMP CONSULTBI SUPERAHERA SA-00715

.

09/17/24

1



John Dalton Reames, Jr.



CONSULTPD

AIRSAMPLER CONSULTBI AS-00287 BI-00945 PD-00200 SUPERAHERA SA-01252

Expiration Date: 11/07/24 11/06/24 08/07/25 11/07/24

APPENDIX E

SITE PHOTOGRAPHS



Photo #4 No Asbestos Detected in Duct Tape Associated with Climate Control Ductwork



Photo #3 Asbestos Detected at 5% in Caulking Associated with Exterior Window Frames





Photo #2 Asbestos Detected at 5% in Silver Roof Sealant Material

Photo #1 North-facing View Depicting the Damaged Condition of the Mobile Home

Sumter City/County Project: 1561 Illery Rd., Sumter, S.C.

Photo #8 No Asbestos Detected in Any Flooring Layers



Photo #6 View Depicting Asbestos-containing Sheet-rock w/ Stippled Texture on the Floor







Photo #5 Asbestos Detected at 3% in Ceiling Sheet-rock System & at 2% in Stippled Texture



Photo #7 Asbestos Detected at 3% in Sheetrock Wall System of Room 1561F