COLLETON COUNTY
SOUTH CAROLINA

Capital Projects & Purchasing Department
113 Mable T. Willis Blvd.
Walterboro, SC 29488
843.539.1968

BID: PD-24
GADSDEN LOOP DEMOLITION and DISPOSAL PROJECT

DUE: Thursday, August 1, 2019 at 2:00pm

MAIL RESPONSE TO:
Capital Projects & Purchasing Department
Attn: Kaye B Syfrett
113 Mable T. Willis Blvd.
Walterboro, SC 29488

DELIVER RESPONSE TO:
Capital Projects & Purchasing Department
Attn: Kaye B Syfrett
113 Mable T. Willis Blvd.
Walterboro, SC 29488

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A. OVERVIEW

Colleton County, South Carolina (the **"County"**) request bids from qualified, licensed contractors for the Gadsden Loop demolition and disposal project which consists of vacant, condemned structures on six (6) separate parcels located within the Walterboro area. The debris will be disposed in accordance with the SC Department of Health and Environmental Control (DHEC) guidelines.

This project is being funded in whole or in part by the South Carolina Department of Commerce, Grants Administration, under the Community Development Block Grant Program (CDBG) and is administered by the Lowcountry Council of Governments. All bids and contracts shall meet the requirements enumerated in the specifications and contract documents.

All Contractors and Sub-contractors are required to be registered with the Federal Government website; System for Award Management (SAM) at www.sam.gov. and to comply with the President's Executive Order No. 11246 & Order No. 11375 which prohibits discrimination in employment regarding race, creed, color, sex, or national origin. Contractors must comply with Title VI if the Civil Rights Act of 1964, the Anti-Kickback Act, the Contract Work Hours and Safety Standards Act, and 40 CFR 33.240.

The County requests that all contractors respond with an actual bid or with a written "No Bid." This provision guards against receiving an insufficient response to the Advertisement of Bids.

To be considered responsive, responders must use the Bid Form included in the specifications. Subject to the terms, conditions, provisions, and the enclosed specifications, responses to this solicitation will be received at this office until the stated date and time. Responses received after the scheduled due date and time will be rejected. Bids must be submitted in a sealed package marked on the outside with the Contractor's name, address, the solicitation name and number.

Any prospective contractor or sub-contractor who is aggrieved in connection with the solicitation of this contract may protest to the Town in accordance with Section 11-35-4210 of the SC Code of Laws, within 15 days of the date of issuance of the Notice of Intent to Award.

Questions regarding this solicitation must be submitted via email to ***Carla Harvey, County Engineer*** *at* ***charvey@colletoncounty.org*** no later than ***11:00AM on Thursday, July 25, 2019****.* Answers to all questions will be posted on the County website as an addendum to this bid.

B. SCOPE OF SERVICES

The Gadsden Loop Neighborhood Revitalization includes the complete demolition and disposal of vacant, condemned structures on six (6) separate parcels located within the Gadsden Loop neighborhood. Each property will be cleaned of all debris, scrub brush, trash and garbage. The bid amount shall include the removal of all construction materials above and below grade for each parcel. All underground utilities such as water, gas and sewer connections are to be terminated and sealed at the street right-of-way and the work shall include the removal of all buried pipes and footings for each parcel. Lots shall be left clean and free of debris and include trimming of overgrowth, bush hogging, stump/dead tree removal, vine removal and leveling with clean fill and seeded. All materials from the sites shall be disposed of properly in accordance with all DHEC and applicable regulations. Debris will be taken to the Colleton County Landfill located at 3288 Green Pond Hwy, Walterboro.

Contractors must also make positive efforts to use small and minority-owned business and to offer employment, training and contracting opportunities in accordance with Section 3 of the Housing and Urban Development Act of 1968.

- Contractor must be legally qualified under the provisions of the SC Contractor's Licensing Law (SC Code of Laws as amended on April 1, 1999, Chapter 11, Sections 40-11-10 through 40-11-428).
- Contractor is responsible for all permits and business license.
- It is the contactor's responsibility to walk each property.
- Demolition Projects will be completed within ***60 days*** of the "Notice to Proceed."

Asbestos testing has been completed on all parcels. Prior to demolition work commencing, the successful contractor will have to provide evidence that they are qualified to do asbestos removal or subcontract with a qualified company to perform all asbestos abatement as described in the asbestos reports and abatement plan as provided. Air monitoring services will be provided by Asbestos Inspections, LLC under a separate contract. Cost of demolition and cleaning needs to be itemized and listed separately for each property. The County reserves the right to accept or reject any bid in whole or in part and to award a contract that is in the best interest of the County.

"Equal Employment Opportunity"

C. INSTRUCTIONS TO CONTRACTOR

1. Submittal must include **one (1) original BID** response clearly marked as original and **one (1) complete copy** of the BID response along with a completed **W-9 form**. Responses must be in a sealed envelope/package containing the solicitation name and number. The individual signing the response must be an Agent legally authorized to bind the company. To be considered responsive, responders must use the Bid Form included in the specifications.

2. All bids are due by **2:00pm** on **Thursday, August 1, 2019**. Responses can be mailed or hand delivered to: Capital Projects & Purchasing Department, Attn: Kaye B. Syfrett, 113 Mable T. Willis Blvd, Walterboro, SC 29488.

3. Show solicitation number on the outside of mailing package. Colleton County assumes no responsibility for unmarked or improperly marked envelopes.

4. It is the contractor's sole responsibility to ensure that solicitation responses, amendments thereto or withdrawal requests are submitted by the scheduled due date and time.

5. The contractor must clearly mark as "Confidential" each part of their response, which they consider to be proprietary information that could be exempt from disclosure under Section 30-40(C) Code of Laws of South Carolina, 1976, Freedom of Information Act. Colleton County reserves the right to determine whether this information should be exempt from disclosure and legal action may not be brought against the County or its agents for its determination in this regard.

6. RESPONSE FORM: All responses shall be printed in ink or typewritten. If required, additional pages may be attached. Bids written in pencil will be disqualified.

7. Subject to the terms, conditions, provisions, and the enclosed specifications, responses to this solicitation will be received at this office until the stated date and time. Responses received after

the scheduled due date and time will be rejected. Bids must be submitted in a sealed package marked on the outside with the Firm's name, address, and the solicitation name and number.

8. This solicitation does not commit Colleton County to award a contract, to pay any costs incurred in the preparation of BID submitted, or to procure or contract for the services. The County reserves the right to accept or reject or cancel in part, or in its entirety offers received as a result of this request if deemed to be in the best interest of the County to do so.

A "No Response" qualifies as a response; however, it is the responsibility of the Firm to notify the Procurement Office if you receive solicitations that do not apply.

D. SELECTION CRITERIA

1. It is the intent of Colleton County to award one contract to the lowest responsive, responsible bidder based on the total bid submitted on the Bid Form with final approval by County Council. Colleton County reserves the right to reject any or all bids, and to award a contract that is most advantageous, and in the best interest of the County and its partners. Federal requirements will apply to the contract.

2. Upon an Intent of Notice to Award being issued along with final approval by SC Department of Commerce, and if needed, County Council, a contract will be executed for the requested services.

E. SPECIFIC TERMS AND CONDITIONS

1. COMPETITION: This solicitation is intended to promote full and open competition. If any language, specifications, terms and conditions, or any combination thereof restricts or limits the requirements in this solicitation to a single source, it shall be the responsibility of the interested vendor to notify the Procurement Office in writing no later than five (5) business days prior to the scheduled due date and time.

2. RESPONDANTS QUALIFICATION: The County reserves the right to request satisfactory evidence of their ability to furnish services in accordance with the terms and conditions listed herein. The County further reserves the right to make the final determination as to the Firm's ability to provide said services.

3. RESPONSE WITHDRAWAL: Any responses may be withdrawn prior to the established closing date and time, but not thereafter with proper approval from the Procurement Manager.

4. REJECTION: Colleton County reserves the right to reject any and all bids, to cancel or withdraw this solicitation, and to waive any technicality if deemed to be in the best interest of the County.

5. WAIVER: The County reserves the right to waive any Instructions to Firm, General or Special Provisions, General or Special Conditions, or specifications deviation if deemed to be in the best interest of the County.

6. RESPONSE PERIOD: All responses shall be good for a minimum period of 90 calendar days.

7. DEVIATIONS FROM SPECIFICATIONS: Any deviation from specifications indicated herein must be clearly pointed out; otherwise, it will be considered that items offered are in strict compliance

with these specifications, and successful contractor will be held responsible therefore. Deviations must be explained in detail on separate attached sheet(s). The listing of deviations, if any, is required but will not be construed as waiving any requirements of the specifications. Unidentified deviations found during the evaluation of the response may be cause for rejection.

8. AMENDMENTS: All amendments to and interpretations of this solicitation shall be in writing and issued by the Procurement Manager of Colleton County.

9. DEBARMENT: By submitting a bid, the contractor is certifying that they are not currently debarred from responding to any request for bids by any agency or subdivision of the State of South Carolina or the United States Federal Government, nor are they an agent of any person or entity that is currently debarred from submitting bids on contracts by any agency or subdivision of the State of South Carolina or the United States Federal Government.

10. DEFAULT: In case of default by the Contractor, the County reserves the right to purchase any or all items in default in the open market, charging the Contractor with any excessive costs. Should such charge be assessed, no subsequent solicitation response of the defaulting Contractor will be considered in future BID's until the assessed charge has been satisfied.

11. HOLD HARMLESS: All respondents to this BID shall indemnify and hold harmless Colleton County Government and any of their officers and employees from all suits and claims alleged to be a result of this request for bids. The issuance of this request of bids constitutes only an invitation to present a bid. Colleton County reserves the right to determine, at its sole discretion, whether any aspect of a respondent's submittal meets the criteria in this request for bids. Colleton County also reserves the right to seek clarifications, to negotiate with any firm submitting a response, to reject any or all responses with or without cause, and to modify the procurement process and schedule.

12. CANCELLATION: In the event that this request for bids is withdrawn or the project canceled for any reason, Colleton County shall have no liability to any respondent for any costs or expenses incurred in connection with this request for proposals or otherwise.

13. COLLETON COUNTY PURCHASING ORDINANCE: The Request of Bids is subject to the provisions of the Colleton County Purchasing Ordinance and any revisions thereto, which are hereby incorporated into this BID in their entirety except as amended or superseded within. This ordinance can be found at: https://www.municode.com/library/sc/colletoncounty/codes/codeofordinances under Title 3 - Revenue and Finance.

14. FAILURE TO SUBMIT ALL MANDATORY FORMS: Failure to submit all the mandatory forms from this request of bids shall be just cause for rejection. However, Colleton County reserves the right to decide, on a case by case basis, in its sole discretion, whether or not to reject such a bid as non-responsive.

15. CONTRACT AWARD:

    a. This solicitation and submitted documents, when properly accepted by Colleton County shall constitute an agreement equally binding between the successful Contractor and the County. No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting agreement. The County shall not be legally bound by any amendment or interpretation that is not fully executed by both parties in writing.

b. The successful Contractor shall be required to execute a formal agreement with the County's Procurement Office within ten (10) business days after issuance of the Notice of Award.

16. CONTRACT ADMINISTRATION: Questions or problems arising after award of an agreement shall be directed to the Procurement Manager by calling (843) 782-0504. Copies of all correspondence concerning this solicitation or resulting agreement shall be sent to the Capital Projects & Purchasing Department, 113 Mable T. Willis Blvd, Walterboro, SC 29488

F. GENERAL CONTRACTUAL REQUIREMENTS

1. ABANDONMENT OR DELAY: If the work to be done under this contract shall be abandoned or delayed by the Contractor, or if at any time the County shall be of the opinion and shall so certify in writing that work has been abandoned or delayed by the Contractor, the County may annul the contract or any part thereof if the Contractor fails to resolve the matter within thirty (30) days of written notice.

2. OFFEROR'S COOPERATION: The Contractor shall maintain regular communications with the Project Manager and shall actively cooperate in all matters pertaining to this contract.

3. RESPONSIBILITY: The Contractor shall at all times observe and comply with all federal, state, local and municipal laws, ordinances, rules and regulations in any manner affecting the contract.

4. NON-APPROPRIATION/SUBSTITUTION PERMITTED: If the Colleton County Council fails to appropriate or authorize the expenditure of sufficient funds to provide the continuation of this contract or if a lawful order issued in, or for any fiscal year during the term of the agreement, reduces the funds appropriated or authorized in such amounts as to preclude making the payments set out therein, the agreement shall terminate on the date said funds are no longer available without any termination charges or other liability incurring to County. Following any such non-appropriation, the master lease agreement shall contain no limitation on the County's ability to replace the equipment financed with any other equipment.

5. INDEMNIFICATION: Except for expenses or liabilities arising from the negligence of the County, the Contractor hereby expressly agrees to indemnify and hold the County harmless against any and all expenses and liabilities arising out of the performance or default of any resulting agreement or arising from or related to the Work as follows:

   The Contractor expressly agrees to the extent that there is a causal relationship between its negligence, action or inaction, or the negligence, action or inaction of any of its employees or any person, contractor, or corporation directly or indirectly employed by the Contractor, and any damage, liability, injury, loss or expense (whether in connection with bodily injury or death or property damage or loss) that is suffered by the County and its employees or by any member of the public, to indemnify and save the County and its employees harmless against any and all liabilities, penalties, demands, claims, lawsuits, losses, damages, costs, and expenses arising out of the performance or default of any resulting agreement or arising from or related to the equipment. Such costs are to include defense, settlement and reasonable attorneys' fees incurred by the County and its employees. This promise to indemnify shall include bodily injuries or death occurring to Contractor's employees and any person, directly or indirectly employed by the Firm (including without limitation any employee of any subcontractor), the County's employees, the

employees of any other independent contractor, or occurring to any member of the public. When the County submits notice, the Firm shall promptly defend any aforementioned action.

The prescribed limits of insurance set forth herein shall not limit the extent of the Contractor's responsibility under this Section. The terms and conditions contained in this Section shall survive the termination of any resulting agreement or the suspension of the Work hereunder. Additionally, the County will not provide indemnity to the successful FIRM. Failure to comply with this section may result in your request for proposal to be deemed non-responsive.

6. FORCE MAJEURE: The Contractor shall not be liable for any excess costs if the failure to perform the resulting agreement arises out of causes beyond the control and without fault or negligence of the Contractor. Such causes may include, but are not restricted to acts of God or of the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; but in every case the failure to perform must be beyond the control and without the fault or negligence of the contractor. If the failure to perform is caused by default of a subcontractor, and if such default arises out of causes beyond the control of both the Contractor and subcontractor and without excess costs for failure to perform, unless the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the contractor to meet the required delivery schedule.

7. ARBITRATION: Under no circumstances and with no exception will Colleton County act as arbitrator between the Contractor and any sub-contractor.

8. PUBLICITY RELEASES: The Firm agrees not to refer to award of this contract in commercial advertising in such a manner as to state or imply that the products or services provided are endorsed or preferred by the County. The Contractor shall not have the right to include the County's name in its published list of customers without prior approval of the County Administrator. With regard to news releases, only the name of the County, type and duration of any resulting agreement may be used and then only with prior approval of the County. The Contractor also agrees not to publish, or cite in any form, any comments or quotes from the County's staff unless it is a direct quote from the Procurement Manager.

9. GOVERNING LAWS: Any agreement arising from this solicitation shall be governed by the laws of the State of South Carolina and any and all disputes arising out of said agreement shall, if litigation is necessary, be litigated only in a Circuit Court for the Fourteenth Judicial Circuit sitting in Colleton County, South Carolina. The prevailing party shall be entitled to attorney's fees and all costs of said litigation.

10. ASSIGNMENT: The Contractor shall not assign in whole or in part any agreement resulting from this Request for Bids without the prior written consent of the County. The Contractor shall not assign any money due or to become due to him under said agreement without the prior written consent of the County.

11. AFFIRMATIVE ACTION: The successful Contractor will take affirmative action in complying with all Federal and State requirements concerning fair employment and treatment of all employees, without regard or discrimination by reason of race, color, religion, sex, national origin or physical handicap.

12. FAILURE TO DELIVER GOODS IN ACCORDANCE WITH TERMS & CONDITIONS: In case of failure to deliver goods in accordance with the contract terms and conditions, Colleton County, after due oral or written notice, may procure substitute goods or services from other sources and hold the

contractor responsible for any resulting additional purchasing and administrative costs. This remedy shall be in addition to any other remedies which Colleton County may have.

13. TERMINATION OF CONTRACT:

    1. Subject to the Provisions below, the contract may be terminated by the Purchasing Department providing a thirty (30) days advance notice in writing is given to the Contractor.

        a. Termination for Convenience: In the event that this contract is terminated or canceled upon request and for the convenience of the County without the required thirty (30) days advance written notice, then the County shall negotiate reasonable termination costs, if applicable.
        b. Termination for Cause: Termination by the County for cause, default or negligence on the part of the Contractor shall be excluded from the foregoing provisions; termination costs, if any, shall not apply. The thirty (30) days advance notice requirement is waived and the default provision in this request for bids shall apply.
        c. The County shall be obligated to reimburse the Contractor only for those services rendered prior to the date of notice of termination, less any liquidation damages that may be assessed for non-performance.

    2. Non-Appropriations Clause: Notwithstanding any other provisions of the contract, if the funds anticipated for the continued fulfillment of this contract are at any time. Not forthcoming, through the failure of the County Government to appropriate funds, discontinuance or material alteration of the program under which funds were provided, the County shall have the right to terminate the contract without penalty by giving not less than thirty (30) days written notice documenting the lack of funding. Unless otherwise agreed to by the County and the Contractor, the contract shall become null and void on the last day of the fiscal year for which appropriations were received.

14. BONDS: Payment and Performance Bonds are required for this BID.

15. OWNERSHIP OF MATERIAL: Ownership of all data, material, and documentation originated and prepared for the County pursuant to this contract shall belong exclusively to the County.

16. INSURANCE: Colleton County will require the following remain in force at all times through the life of the contract:

    Professional Liability Insurance – Minimum $1,000,000.00 - Proof of in force insurance must be provided in the response to the RFP

    Other insurances:
    Workers' Compensation - $100,000 – each accident
    Statutory Coverage and Employer's - $100,000 each employee
    Liability - $500,000 – policy limit

    Comprehensive General Liability -$1,000,000 – bodily injury each occurrence
    $1,000,000 – bodily injury aggregate
    $1,000,000 – property damage each occurrence
    $1,000,000 – property damage aggregate
    Products – Completed Operations - $1,000,000 – aggregate
    Business Auto Liability – Same as Comprehensive General Liability
    Excess or Umbrella Liability - $1,000,000

    Colleton County will be named as an "additional insured" party

COLLETON COUNTY
SOUTH CAROLINA

BID: PD-24

GADSDEN LOOP DEMOLITION and DISPOSAL PROJECT

ADDENDA ACKNOWLEDGMENT

The firm has examined and carefully studied the Request for Bid and the following Addenda, receipt of all of which is hereby acknowledged:

Addendum No. _____

Addendum No _____

Addendum No. _____

Addendum No. _____

_____ _____

Authorized Representative/Signature Date

_____

Authorized Representative/Title (Print)

The Contractor must acknowledge any issued addenda. Bids which fail to acknowledge the contractor's receipt of any addendum will result in the rejection of the offer if the addendum contained information which substantively changes the Owner's requirements or pricing.

THIS PAGE MUST BE COMPLETED AND SUBMITTED AS A PART OF YOUR BID

COLLETON COUNTY
SOUTH CAROLINA

BID: PD-24

GADSDEN LOOP DEMOLITION and DISPOSAL PROJECT

INDEMNIFICATION

The contractor will indemnify and hold harmless the Owner, Colleton County and their agents and employees from and against all claims, damages, losses and expenses, including attorney's fees, arising out of or resulting from the performance of the Work provided that any such claims, damages, loss, or expense is attributable to bodily injury, sickness, disease or death, injury to or destruction of tangible property, including the loss of use resulting there from, and is caused by any negligent or willful act or omission of the Firm, and anyone directly or indirectly employed by him/her or anyone for whose acts any of them may be liable.

In any and all claims against the Owner, Colleton County or any of their agents and/or employees by an employee of the Contractor, and anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification obligation shall not be limited in any way to the amount or type of damages, compensation or benefits payable by or for the Contractor under the Worker's Compensation Acts, Disability Benefit Acts, or other employee benefit acts.

The obligation of the Firm under this paragraph shall not extend to the liability of Colleton County or its agents and/or employees arising out of the reports, surveys, Change Orders, designs or Technical Specifications.

CONTRACTOR: _____

BY: _____

DATE: _____

TELEPHONE NO.: _____

THIS PAGE MUST BE COMPLETED AND SUBMITTED AS A PART OF YOUR BID

COLLETON COUNTY
SOUTH CAROLINA

BID: PD-24
GADSDEN LOOP DEMOLITION and DISPOSAL PROJECT
CERTIFICATE OF FAMILIARITY

The undersigned, having fully familiarized him/her with the information contained within this entire solicitation and applicable amendments, submits the attached response, and other applicable information to the County, which I verify to be true and correct to the best of my knowledge. I further certify that this response is made without prior understanding, agreement, or connection with any corporation, Firm or person submitting a response for the same materials, supplies or equipment, and is in all respects, fair and without collusion or fraud. I agree to abide by all conditions set forth in this solicitation and certify that I have signature authority to bind the company listed herein.

MINORITY BUSINESS: Are you a minority business?

► ***Yes*** ____ (_____*Women-owner/* _____*Disadvantaged) If yes, please submit a copy of your certificate with your response.*
► ***No*** ____

_____ _____
Authorized Signature Date

_____
Authorized Representative/Title (Print)

THIS PAGE MUST BE COMPLETED AND SUBMITTED AS A PART OF YOUR BID

COLLETON COUNTY
SOUTH CAROLINA

BID: PD-24
GADSDEN LOOP DEMOLITION and DISPOSAL PROJECT
DEBARMENT

The Contractor is certifying that they are not currently debarred from responding to any request for bids by any agency or subdivision of the State of South Carolina or the United States Federal Government, nor are they an agent of any person or entity that is currently debarred from submitting bids on contracts by any agency or subdivision of the State of South Carolina or the United States Federal Government.

SAM's No. _____

Cage Code. _____

DUN's No. _____

_____ _____
Authorized Representative/Signature Date

_____
Authorized Representative/Title (Print)

THIS PAGE MUST BE COMPLETED AND SUBMITTED AS A PART OF YOUR BID

ASBESTOS INSPECTION REPORT

200 CLEVELAND STREET
Walterboro, South Carolina
Asbestos Inspections, LLC Project # 2019-01-137
Performed in general accordance with SCDHEC regulation 61-86.1
along with OSHA regulation 29 CFR 1926

Assessment Completed by:

Asbestos Inspections, LLC
4686 Pee Dee Highway
Conway, South Carolina 29527
(843) 397-7008

Dawn Schoolcraft
SCDHEC ID# BI-00738

Assessment Completed For:

Capital Projects & Purchasing Department
Ms. Kaye Syfrett
113 Mable T. Willis Boulevard
Walterboro, South Carolina 29488

Inspection Completed On – May 1, 2019
Report Prepared On – May 15, 2019

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1.0 SIGNATURE PAGE

This report has been performed at the request of Ms. Kaye Syfrett with Colleton County. The inspection was conducted by Mrs. Dawn Schoolcraft with Asbestos Inspections, LLC on May 1, 2019. The report was prepared and reviewed by the undersigned inspector.

Inspection Performed by:	SCDEHC #	Expires	Signature	Date
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/1/19
Report Prepared by:				
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/15/19
Report Reviewed by:				
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/15/19

Asbestos Inspections, LLC

2.0 COVER LETTER

May 15, 2019

Capital Projects & Purchasing Department
Ms. Kaye Syfrett
113 Mable T. Willis Boulevard
Walterboro, South Carolina 29488

Subject: Asbestos Inspection Report
200 Cleveland Street
Walterboro, South Carolina
Asbestos Inspections, LLC Project # 2019-01-137

Dear Ms. Syfrett,

Asbestos Inspections, LLC has completed an Asbestos Inspection for the vacant residence located at 200 Cleveland Street, in Walterboro, South Carolina. The inspection was completed on May 1, 2019 by a South Carolina Department of Health and Environmental Control (SCDHEC) building inspector.

The following report summarizes the project background, assessment procedures, results, and conclusions. The results presented in this report are indicative of conditions during the time of the inspection and of the specific areas outlined. The information provided in this report should not be used as a bidding document and field conditions should be verified. Should suspect building materials, not included within this report, be identified or impacted during the destructive activities, bulk samples must be collected and analyzed for asbestos content.

I appreciate this opportunity to provide my services. Should you have any questions concerning this report, please contact me at (843) 397-7008 or (843) 995-5197.

Sincerely,

Dawn Schoolcraft

Dawn Schoolcraft
Asbestos Building Inspector (SCDHEC #BI-00738)

3.0 EXECUTIVE SUMMARY

3.1 Scope and Purpose

Ms. Kaye Syfrett, with Colleton County, requested this inspection for the vacant residence located at 200 Cleveland Street, in Walterboro, South Carolina. It is our understanding that the structure is scheduled for demolition. The purpose of this assessment is to identify asbestos containing materials (ACMs) prior to the scheduled demolition.

The inspection was completed in accordance with procedures specified in SCDHEC regulation 61.86.1 along with Occupational Safety and Health Administration (OSHA) regulation 29 Code of the Federal Regulations (CFR) 1926. The representative bulk samples collected were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory which is administered by the National Institute of Standards and Technology (NIST). This report has been prepared in accordance with Environmental Protection Agency (EPA) 40 CFR, 763.85(a)(4).

3.2 Facility Conditions

The vacant structure is approximately 3,344 square-feet home and shed, constructed on a soil foundation, with a pitched sheet metal roof. The exterior consists of an asphalt shingle roll siding with wood walls throughout. Suspect materials sampled and analyzed during this inspection included shingle roll siding.

The possibility exists that suspect materials were undetected in inaccessible areas to enter, including but not limited to: locked rooms, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during renovation, bulk samples should be collected and analyzed for asbestos content.

3.3 Findings and Conclusions

The EPA and SCDHEC define materials as asbestos containing if an asbestos content >1% is identified in a representative sample. **No asbestos >1% was detected** in the materials sampled and analyzed. A copy of this report along with an application for demolition must be submitted to SCDHEC 10 working days prior to any demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

4.0 ASBESTOS ASSESSMENT DATA

The assessment was performed by observing and sampling suspect ACMs in the structure prior to the scheduled demolition. Representative bulk samples were then extracted, recorded on a chain of custody, and submitted to CEI Labs of Cary, North Carolina for laboratory analysis. The samples were tested via Polarized Light Microscopy (PLM); however, SCDHEC requires a Transmission Electron Microscopy (TEM) test be performed for all non-friable organically bound material found negative via PLM.

The following table exhibits the suspect material sampled, location, quantity of material sampled, condition of material, potential for future disturbance, laboratory test method, and laboratory result for each sample collected.

Sample #	Material	Location	Cat./# Samples	Qty.	Asbestos Type	%	Cond.	Pot. Dist.	Haz. Assess.	Test Method
S1-01	Black, Red Roof Shingle Roll	Exterior Siding	M/3	600 sf	ND	0	SD/F	PSD	7	PLM
S1-02	Black, Red Roof Shingle Roll				ND	0	SD/F	PSD	7	PLM
S1-03	Black, Red Roof Shingle Roll				ND	0	SD/F	PSD	7	TEM

Abbreviations and Hazard Assessment Key

Category and Sampling #'s

Miscellaneous (M) = 3 samples required

Surfacing (S) = <1,000 sf = 3 samples required; 1,000-5,000 sf = 5 samples; >5,000 sf = 7 samples

Thermal System Insulation (TSI) = < 6 sf = 1 sample required; > 6 sf = 3 samples

Present Condition

F = Friable G = Good (very localized limited damage)

NF = Non-friable D = Damaged (Damage of less than 10% distributed and less than 25% localized)

SD = Significantly Damaged (Damage equal to or greater than 10% distributed/25% localized)

Potential for Future Disturbance

LPD = Low potential for disturbance (Contact, vibration, and air erosion all of low concern)

PD = Potential for damage (Contact, vibration, or air erosion of moderate concern)

PSD = Potential for significant damage (Contact, vibration, or air erosion of high concern)

Hazard Assessment – *Present Condition Versus Potential for Future Disturbance*

Good	*Damaged*	*Significantly Damaged* = 7
LPD = 1	LPD = 4	
PD = 2	PD = 5	
PSD = 3	PSD = 6	

Test Method

PLM = Polarized Light Microscopy

TEM = Transmission Electron Microscopy (required by SCDHEC for confirmation of negative results for non-friable organically bound materials)

-- = Sample not analyzed due to positive PLM results.

Misc.

sf = Square Feet lf = Linear Feet

ND = None Detected

EPA, SCDHEC, and OSHA define a material as asbestos containing if an asbestos content greater than 1% is detected.

Please understand that quantities are estimated and should not be used for bidding purposes. Field conditions should be verified prior to bidding.

Site location and sample locations are identified as Figures 1 thru 2 of Appendix 1 of this report, photographs are in Appendix 2, laboratory results are in Appendix 3, and license is in Appendix 4.

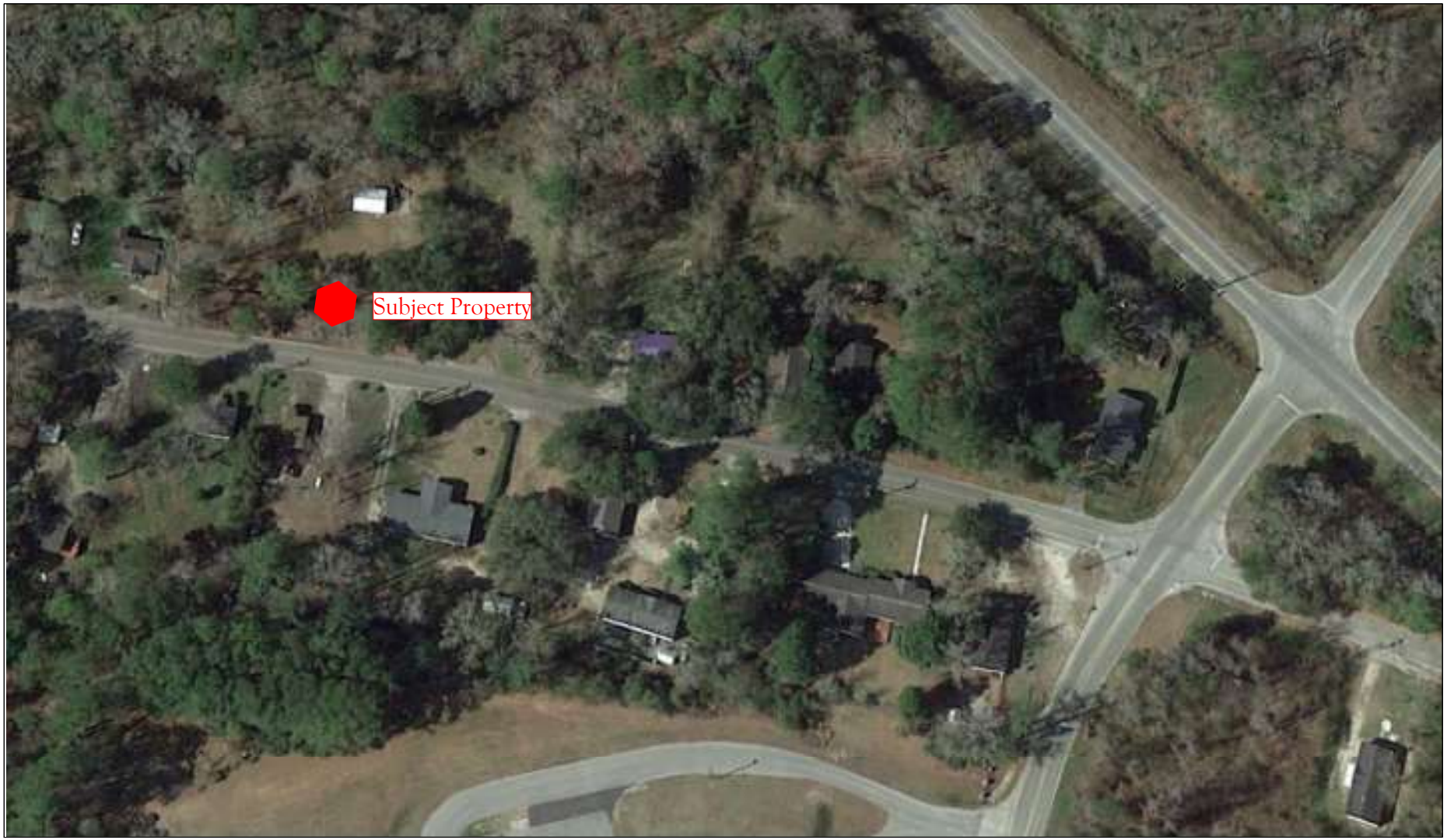
5.0 CONCLUSIONS

The EPA and SCDHEC define materials as asbestos containing if an asbestos content >1% is detected in a representative sample. **No asbestos >1 % was detected** in the materials sampled and analyzed for the vacant residence located at 200 Cleveland Street, in Walterboro, South Carolina. A copy of this report along with an application for asbestos abatement and demolition must be submitted to SCDHEC 10 working days prior to any abatement or demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

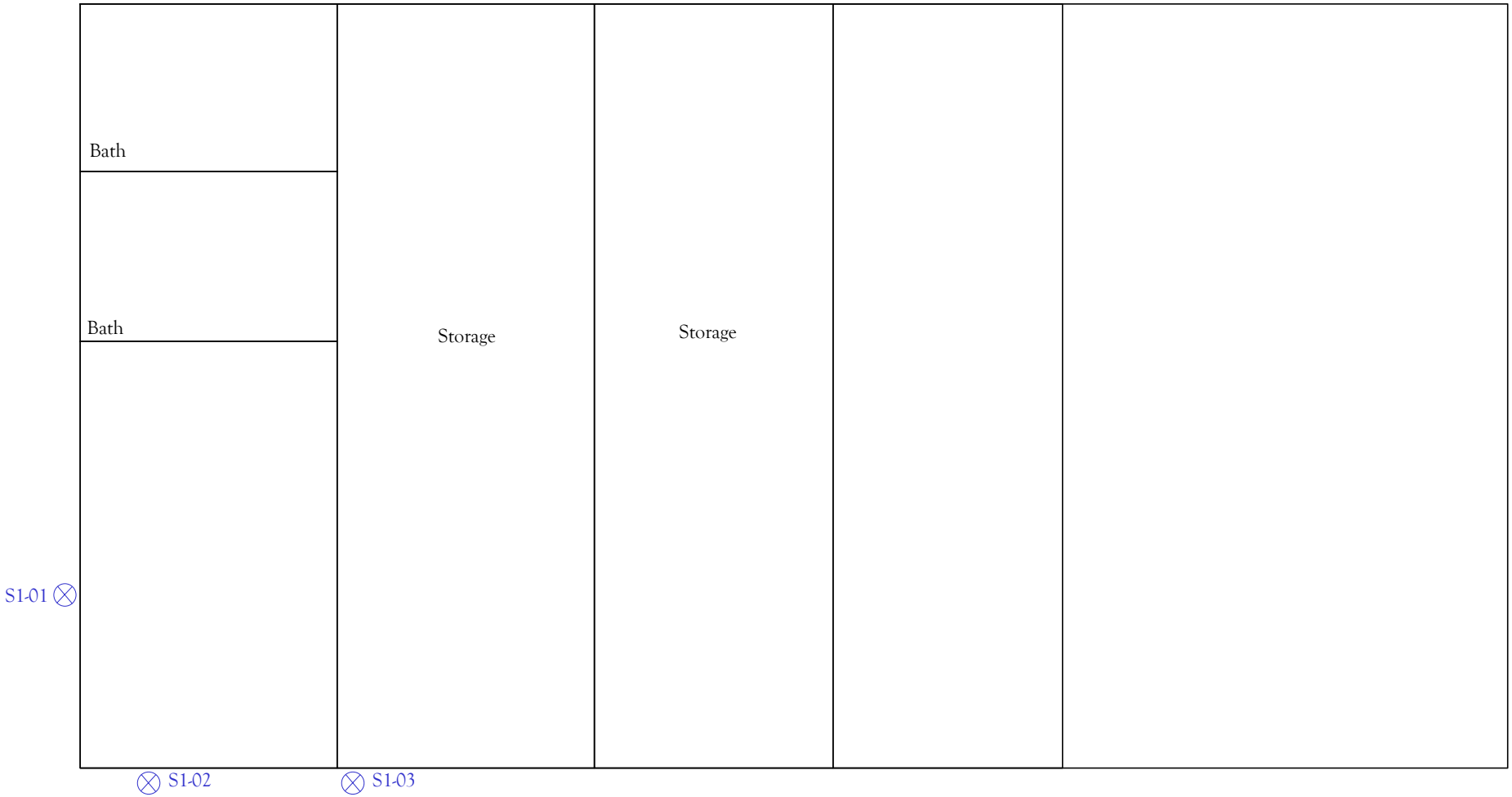
The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, locked rooms, behind exterior veneer, pipe chases, below the wood roof decking, or wall voids. If additional suspect materials not included in this report are discovered during demolition, bulk samples should be collected and analyzed for asbestos content.

APPENDIX 1

Site Location Plan and Sample Location Plan (Figures 1 thru 2)



Asbestos Inspections, LLC	Site Location Plan 200 Cleveland Street Walterboro, SC Project # - 2019-01-137	Scale: Not to Scale Reviewed By: DS Date: 5/14/2019 Source: N/A	**Figure 1**



Asbestos Inspections, LLC	Sample Location Plan 200 Cleveland Street Walterboro, SC Project # - 2019-01-137	Scale: Not to Scale Reviewed By: DS Date: 5/15/2019 Source: N/A	**Figure 2**

LEGEND

⊗ Sample Location

APPENDIX 2

Photographs

ASBESTOS INSPECTION REPORT
200 CLEVELAND STREET
Project Number – 2019-01-137
May, 2019

Asbestos Testing Notification

Exterior View of Home

Collapsed Tin Roof of Home

Collapsed Tin Roof of Home

ASBESTOS INSPECTION REPORT
200 CLEVELAND STREET
Project Number – 2019-01-137
May, 2019

Storage

Storage

Bathroom

Bathroom

Storage

Storage

Storage

Storage

ASBESTOS INSPECTION REPORT
200 CLEVELAND STREET
Project Number – 2019-01-137
May, 2019

Shed

Shed

Exterior View of Home

Exterior View of Home

APPENDIX 3

Asbestos Laboratory Results

May 9, 2019

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: 200 Cleveland Street
CEI LAB CODE: A199483

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on May 2, 2019. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

eurofins | CEI

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: 200 Cleveland Street

LAB CODE: A199483

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/09/19

TOTAL SAMPLES ANALYZED: 2

SAMPLES >1% ASBESTOS:

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 200 Cleveland Street

LAB CODE: A199483

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
S1-01		A132866	Black,Red	Roof Shingle Roll	None Detected
S1-02		A132867	Black,Red	Roof Shingle Roll	None Detected
S1-03		A132868		Sample Submitted for TEM Analysis	

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A199483
Date Received: 05-02-19
Date Analyzed: 05-08-19
Date Reported: 05-09-19

Project: 200 Cleveland Street

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
S1-01 A132866	Roof Shingle Roll	Heterogeneous Black,Red Fibrous Tightly Bound	25%	Cellulose	60% 15%	Tar Gravel	None Detected
S1-02 A132867	Roof Shingle Roll	Heterogeneous Black,Red Fibrous Tightly Bound	25%	Cellulose	60% 15%	Tar Gravel	None Detected
S1-03 A132868	Sample Submitted for TEM Analysis						

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LEGEND:
Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Justin Shu

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

A1994483

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CHAIN OF CUSTODY

A132866-A132868

3

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
ECEI Lab Code:
ECEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: 200 Cleveland Street
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN:

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	■
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS: Please analyze TEM following negative PLM.

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	5/2/2019 8:30	MN	5-2-19 10:00

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

Version: CCOC.07.18.1/2.LD

A199483

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: 200 Cleveland Street	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
S1 (01-03)	Roof Shingle Roll		PLM [X]	TEM [X]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
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May 15, 2019

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: 200 Cleveland Street
LAB CODE: T191695

Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on May 9, 2019. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield Method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

eurofins | CEI

ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: 200 Cleveland Street

LAB CODE: T191695

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116

REPORT DATE: 05/15/19

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Project: 200 Cleveland Street

Lab Code: T191695
Date Received: 05-09-19
Date Analyzed: 05-13-19
Date Reported: 05-15-19

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
S1-03 T99781	Roof Shingle Roll	0.338	54.1	1.8	44.1	**None Detected**

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LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. *Estimated measurement of uncertainty is available on request.* Samples were received in acceptable condition unless otherwise noted.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Amanda Rucinski

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

A1994483
A1328666-
A1328668

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CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
ECEI Lab Code: T91695
ECEI Lab I.D. Range: T99781

(1) (3)

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: 200 Cleveland Street
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN:

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	■
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS: Please analyze TEM following negative PLM.

NA Accept Samples

☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	5/2/2019 8:30	NA	5-2-19 10:00
Austin Shaw	5/8/19 1:57		

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

A199483

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: 200 Cleveland Street	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
S1 (01-03)	Roof Shingle Roll		PLM ■	TEM ■
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
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			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐

APPENDIX 4

License

[redacted]

SCDHEC ISSUED

Asbestos ID Card

Dawn Schoolcraft

		Expiration Date:
AIRSAMPLER	AS-00418	06/15/19
CONSULTMP	MP-00245	06/13/19
CONSULTBI	BI-00738	06/13/19
CONSULTPD	PD-00157	06/14/19

ASBESTOS INSPECTION REPORT - REVISION
200 CLEVELAND STREET
Walteboro, South Carolina
Asbestos Inspections, LLC Project # 2019-01-137
Performed in general accordance with SCDHEC regulation 61-86.1
along with OSHA regulation 29 CFR 1926

Assessment Completed by:

Asbestos Inspections, LLC
4686 Pee Dee Highway
Conway, South Carolina 29527
(843) 397-7008

Dawn Schoolcraft
SCDHEC ID# BI-00738

Assessment Completed For:

Capital Projects & Purchasing Department
Ms. Kaye Syfrett
113 Mable T. Willis Boulevard
Walterboro, South Carolina 29488

Inspection Completed On – May 1, 2019
Report Prepared On – May 1 and 30, 2019

TABLE OF CONTENTS

1.0 SIGNATURE PAGE

This report has been performed at the request of Ms. Kaye Syfrett with Colleton County. The inspection was conducted by Mrs. Dawn Schoolcraft with Asbestos Inspections, LLC on May 1, 2019. The report was prepared and reviewed by the undersigned inspector.

Inspection Performed by:	SCDEHC #	Expires	Signature	Date
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/1/19
Report Prepared by:				
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/30/19
Report Reviewed by:				
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/30/19

Asbestos Inspections, LLC

2.0 COVER LETTER

May 30, 2019

Capital Projects & Purchasing Department
Ms. Kaye Syfrett
113 Mable T. Willis Boulevard
Walterboro, South Carolina 29488

Subject: Asbestos Inspection Report - Revised
200 Cleveland Street
Walterboro, South Carolina
Asbestos Inspections, LLC Project # 2019-01-137

Dear Ms. Syfrett,

Asbestos Inspections, LLC has completed an Asbestos Inspection for the vacant residential property located at 200 Cleveland Street, in Walterboro, South Carolina. The inspection was completed on May 1, 2019 and May 28, 2019 by a South Carolina Department of Health and Environmental Control (SCDHEC) building inspector.

The following report summarizes the project background, assessment procedures, results, and conclusions. The results presented in this report are indicative of conditions during the time of the inspection and of the specific areas outlined. The information provided in this report should not be used as a bidding document and field conditions should be verified. Should suspect building materials, not included within this report, be identified or impacted during the destructive activities, bulk samples must be collected and analyzed for asbestos content.

I appreciate this opportunity to provide my services. Should you have any questions concerning this report, please contact me at (843) 397-7008 or (843) 995-5197.

Sincerely,

Dawn Schoolcraft

Dawn Schoolcraft
Asbestos Building Inspector (SCDHEC #BI-00738)

3.0 EXECUTIVE SUMMARY

3.1 Scope and Purpose

Ms. Kaye Syfrett, with Colleton County, requested this inspection for the vacant residence located at 200 Cleveland Street, in Walterboro, South Carolina. It is our understanding that the structure is scheduled for demolition. The purpose of this assessment is to identify asbestos containing materials (ACMs) prior to the scheduled demolition.

The inspection was completed in accordance with procedures specified in SCDHEC regulation 61.86.1 along with Occupational Safety and Health Administration (OSHA) regulation 29 Code of the Federal Regulations (CFR) 1926. The representative bulk samples collected were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory which is administered by the National Institute of Standards and Technology (NIST). This report has been prepared in accordance with Environmental Protection Agency (EPA) 40 CFR, 763.85(a)(4).

3.2 Facility Conditions

The vacant structure is approximately 3,344 square-feet shed, constructed on a soil foundation, with a pitched sheet metal roof. The exterior consists of an asphalt shingle roll siding with wood walls throughout.

In addition to the shed on the front portion of the property, there is an approximately 330 square-feet home situated southwest of the existing pump station just inside the woods. The home consists of sheet metal roof, asphalt shingle roll siding, wood framed windows, with interior wood walls, ceilings, and floors. A portion of the roof has collapsed along with much of the interior floor.

Suspect materials sampled and analyzed during this inspection included shingle roll siding on both the shed and home.

The possibility exists that suspect materials were undetected in inaccessible areas unsafe to enter, including but not limited to: locked rooms, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during renovation, bulk samples should be collected and analyzed for asbestos content.

3.3 Findings and Conclusions

The EPA and SCDHEC define materials as asbestos containing if an asbestos content >1% is identified in a representative sample. **No asbestos >1% was detected** in the materials sampled and analyzed. A copy of this report along with an application for demolition must be submitted to SCDHEC 10 working days prior to any demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

4.0 ASBESTOS ASSESSMENT DATA

The assessment was performed by observing and sampling suspect ACMs in the structure prior to the scheduled demolition. Representative bulk samples were then extracted, recorded on a chain of custody, and submitted to CEI Labs of Cary, North Carolina for laboratory analysis. The samples were tested via Polarized Light Microscopy (PLM); however, SCDHEC requires a Transmission Electron Microscopy (TEM) test be performed for all non-friable organically bound material found negative via PLM.

The following table exhibits the suspect material sampled, location, quantity of material sampled, condition of material, potential for future disturbance, laboratory test method, and laboratory result for each sample collected.

Sample #	Material	Location	Cat./# Samples	Qty.	Asbestos Type	%	Cond.	Pot. Dist.	Haz. Assess.	Test Method
S1-01	Black, Red Roof Shingle Roll	Exterior Siding - Shed	M/3	600 sf	ND	0	SD/F	PSD	7	PLM
S1-02	Black, Red Roof Shingle Roll				ND	0	SD/F	PSD	7	PLM
S1-03	Black, Red Roof Shingle Roll				ND	0	SD/F	PSD	7	TEM
S-01	Black,Red Shingle Roll	Exterior Siding - House	M/3	700 sf	ND	0	SD/F	PSD	7	PLM
S-02	Black,Red Shingle Roll				ND	0	SD/F	PSD	7	PLM
S-03	Black,Red Shingle Roll				ND	0	SD/F	PSD	7	TEM

Abbreviations and Hazard Assessment Key

Category and Sampling #'s

Miscellaneous (M) = 3 samples required
Surfacing (S) = <1,000 sf = 3 samples required; 1,000-5,000 sf = 5 samples; >5,000 sf = 7 samples
Thermal System Insulation (TSI) = < 6 sf = 1 sample required; > 6 sf = 3 samples

Present Condition

F = Friable G = Good (very localized limited damage)
NF = Non-friable D = Damaged (Damage of less than 10% distributed and less than 25% localized)
SD = Significantly Damaged (Damage equal to or greater than 10% distributed/25% localized)

Potential for Future Disturbance

LPD = Low potential for disturbance (Contact, vibration, and air erosion all of low concern)
PD = Potential for damage (Contact, vibration, or air erosion of moderate concern)
PSD = Potential for significant damage (Contact, vibration, or air erosion of high concern)

Hazard Assessment – *Present Condition Versus Potential for Future Disturbance*

Good	*Damaged*	*Significantly Damaged* = 7
LPD = 1	LPD = 4	
PD = 2	PD = 5	
PSD = 3	PSD = 6	

Test Method

PLM = Polarized Light Microscopy
TEM = Transmission Electron Microscopy (required by SCDHEC for confirmation of negative results for

non-friable organically bound materials)
-- = Sample not analyzed due to positive PLM results.
Misc.
sf = Square Feet lf = Linear Feet
ND = None Detected
EPA, SCDHEC, and OSHA define a material as asbestos containing if an asbestos content greater than 1% is detected.

Please understand that quantities are estimated and should not be used for bidding purposes. Field conditions should be verified prior to bidding.

Site location and sample locations are identified as Figures 1 thru 2 of Appendix 1 of this report, photographs are in Appendix 2, laboratory results are in Appendix 3, and license is in Appendix 4.

5.0 CONCLUSIONS

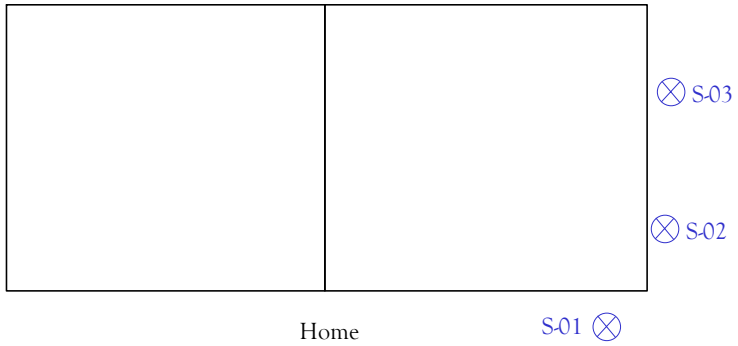
The EPA and SCDHEC define materials as asbestos containing if an asbestos content >1% is detected in a representative sample. **No asbestos >1 % was detected** in the materials sampled and analyzed for the vacant residence located at 200 Cleveland Street, in Walterboro, South Carolina. A copy of this report along with an application for asbestos abatement and demolition must be submitted to SCDHEC 10 working days prior to any abatement or demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

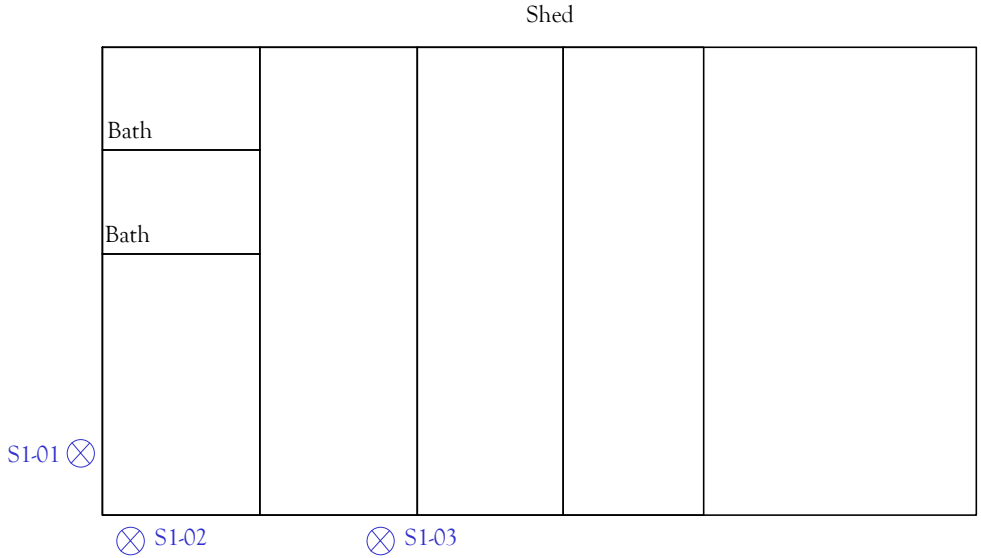
The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, locked rooms, behind exterior veneer, pipe chases, below the wood roof decking, or wall voids. If additional suspect materials not included in this report are discovered during demolition, bulk samples should be collected and analyzed for asbestos content.

APPENDIX 1

Site Location Plan and Sample Location Plan (Figures 1 thru 2)

Asbestos Inspections, LLC	Site Location Plan 200 Cleveland Street Walteboro, SC Project # - 2019-01-137	Scale: Not to Scale Reviewed By: DS Date: 5/30/2019 Source: N/A	**Figure 1**





Asbestos Inspections, LLC	Sample Location Plan 200 Cleveland Street Walterboro, SC Project # - 2019-01-137	Scale: Not to Scale Reviewed By: DS Date: 5/30/2019 Source: N/A	**Figure 2**

LEGEND

⊗ Sample Location

APPENDIX 2

Photographs

ASBESTOS INSPECTION REPORT
200 CLEVELAND STREET
Project Number – 2019-01-137
May 30, 2019

Asbestos Testing Notification

Exterior View of Home

Collapsed Tin Roof of Home

Collapsed Tin Roof of Home

ASBESTOS INSPECTION REPORT
200 CLEVELAND STREET
Project Number – 2019-01-137
May 30, 2019

Storage

Storage

Bathroom

Bathroom

Storage

Storage

Storage

Storage

ASBESTOS INSPECTION REPORT
200 CLEVELAND STREET
Project Number – 2019-01-137
May 30, 2019

Shed

Shed

Exterior View of Home

Exterior View of Home

ASBESTOS INSPECTION REPORT
200 CLEVELAND STREET
Project Number – 2019-01-137
May 30, 2019

Exterior of Home

Siding of Home

Siding of Home

Interior View of Home

Interior View of Home

Wood Walls & Ceilings of Home

APPENDIX 3

Asbestos Laboratory Results

May 9, 2019

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: 200 Cleveland Street
CEI LAB CODE: A199483

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on May 2, 2019. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

eurofins | CEI

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: 200 Cleveland Street

LAB CODE: A199483

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/09/19

TOTAL SAMPLES ANALYZED: 2

SAMPLES >1% ASBESTOS:

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 200 Cleveland Street

LAB CODE: A199483

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
S1-01		A132866	Black,Red	Roof Shingle Roll	None Detected
S1-02		A132867	Black,Red	Roof Shingle Roll	None Detected
S1-03		A132868		Sample Submitted for TEM Analysis	

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A199483
Date Received: 05-02-19
Date Analyzed: 05-08-19
Date Reported: 05-09-19

Project: 200 Cleveland Street

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
S1-01 A132866	Roof Shingle Roll	Heterogeneous Black,Red Fibrous Tightly Bound	25%	Cellulose	60% 15%	Tar Gravel	None Detected
S1-02 A132867	Roof Shingle Roll	Heterogeneous Black,Red Fibrous Tightly Bound	25%	Cellulose	60% 15%	Tar Gravel	None Detected
S1-03 A132868	Sample Submitted for TEM Analysis						

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LEGEND:
Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Justin Shu

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

A1994483

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CHAIN OF CUSTODY

A132866-A132868

3

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
ECEI Lab Code:
ECEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: 200 Cleveland Street
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN:

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	■
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS: Please analyze TEM following negative PLM.

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	5/2/2019 8:30	MN	5-2-19 10:00

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

Version: CCOC.07.18.1/2.LD

A199483

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: 200 Cleveland Street	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
S1 (01-03)	Roof Shingle Roll		PLM ■	TEM ■
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
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			PLM ☐	TEM ☐
			PLM ☐	TEM ☐

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May 29, 2019

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: 200 Cleveland St.
CEI LAB CODE: A1911293

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on May 29, 2019. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

eurofins | CEI

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: 200 Cleveland St.

LAB CODE: A1911293

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/29/19

TOTAL SAMPLES ANALYZED: 2

SAMPLES >1% ASBESTOS:

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 200 Cleveland St.

LAB CODE: A1911293

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
S-01		A157054	Black,Red	Shingle Roll	None Detected
S-02		A157055	Black,Red	Shingle Roll	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A1911293
Date Received: 05-29-19
Date Analyzed: 05-29-19
Date Reported: 05-29-19

Project: 200 Cleveland St.

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
S-01 A157054	Shingle Roll	Heterogeneous Black,Red Fibrous Bound	30%	Cellulose	25% 40% 5%	Tar Gravel Mica	None Detected
S-02 A157055	Shingle Roll	Heterogeneous Black,Red Fibrous Bound	30%	Cellulose	25% 40% 5%	Tar Gravel Mica	None Detected

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LEGEND:
Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Scott Minyard

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

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CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
ECEI Lab Code: A1911293
ECEI Lab I.D. Range: A157054 - A157055

(2)

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: 200 Cleveland St.
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN: SC

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	■	☐	☐	☐	☐
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	■	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS: Please analyze TEM along with PLM.

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Dawn Schoolcraft	5/28/2019	JB	5/29/19 ~~9:40~~ 9:40

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

A1911293

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: 200 Cleveland St.	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
S (01-03)	Shingle Roll		PLM ■	TEM ■
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
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			PLM ☐	TEM ☐

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May 15, 2019

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: 200 Cleveland Street
LAB CODE: T191695

Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on May 9, 2019. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield Method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

eurofins | CEI

ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: 200 Cleveland Street

LAB CODE: T191695

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116

REPORT DATE: 05/15/19

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Project: 200 Cleveland Street

Lab Code: T191695
Date Received: 05-09-19
Date Analyzed: 05-13-19
Date Reported: 05-15-19

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
S1-03 T99781	Roof Shingle Roll	0.338	54.1	1.8	44.1	**None Detected**

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LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. *Estimated measurement of uncertainty is available on request.* Samples were received in acceptable condition unless otherwise noted.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Amanda Rucinski

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

A1994483
A1328666-
A1328668

eurofins | CEI

CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
ECEI Lab Code: T91695
ECEI Lab I.D. Range: T99781

(1) (3)

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: 200 Cleveland Street
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN:

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	■
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS: Please analyze TEM following negative PLM.

NA Accept Samples

☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	5/2/2019 8:30	NA	5-2-19 10:00
Austin Shaw	5/8/19 1:57		

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

A199483

eurofins | CEI

SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: 200 Cleveland Street	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
S1 (01-03)	Roof Shingle Roll		PLM ■	TEM ■
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
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			PLM ☐	TEM ☐
			PLM ☐	TEM ☐

Version: CCOC.07.18.2/2.LD

eurofins | CEI

May 30, 2019

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: 200 Cleveland St.
LAB CODE: T191871

Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on May 29, 2019. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield Method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

eurofins | CEI

ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: 200 Cleveland St.

LAB CODE: T191871

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116

REPORT DATE: 05/30/19

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Project: 200 Cleveland St.

Lab Code: T191871
Date Received: 05-29-19
Date Analyzed: 05-30-19
Date Reported: 05-30-19

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
S-03 T100849	Shingle Roll	0.366	51.6	4.4	44	**None Detected**

LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. *Estimated measurement of uncertainty is available on request.* Samples were received in acceptable condition unless otherwise noted.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Jennifer Turner

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

T191871
T100849
1

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CHAIN OF CUSTODY

LAB USE ONLY:
ECEI Lab Code:
ECEI Lab I.D. Range:

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: 200 Cleveland St.
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN: SC

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	■	☐	☐	☐	☐
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600	■	☐	☐	☐	☐	☐
PLM BULK	CARB 435	■	☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD	■	☐	■	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16	■	■	☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD	■	■	☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD	■	☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS: Please analyze TEM along with PLM.	☑ Accept Samples ☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Dawn Schoolcraft	5/28/2019	JB	5/29/19 ~~9:40~~ 9:40

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: 200 Cleveland St.	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
S (01-03)	Shingle Roll		PLM ■	TEM ■
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
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			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐

[redacted]

SCDHEC ISSUED

Asbestos ID Card

Dawn Schoolcraft

		Expiration Date:
AIRSAMPLER	AS-00418	06/15/19
CONSULTMP	MP-00245	06/13/19
CONSULTBI	BI-00738	06/13/19
CONSULTPD	PD-00157	06/14/19

APPENDIX 4

License

ASBESTOS INSPECTION REPORT
107 COLSON STREET
Walterboro, South Carolina
Asbestos Inspections, LLC Project # 2019-01-137
Performed in general accordance with SCDHEC regulation 61-86.1
along with OSHA regulation 29 CFR 1926

Assessment Completed by:

Asbestos Inspections, LLC
4686 Pee Dee Highway
Conway, South Carolina 29527
(843) 397-7008

Dawn Schoolcraft
SCDHEC ID# BI-00738

Assessment Completed For:

Capital Projects & Purchasing Department
Ms. Kaye Syfrett
113 Mable T. Willis Boulevard
Walterboro, South Carolina 29488

Inspection Completed On – May 1, 2019
Report Prepared On – May 16, 2019

TABLE OF CONTENTS

1.0 SIGNATURE PAGE

This report has been performed at the request of Ms. Kaye Syfrett with Colleton County. The inspection was conducted by Mrs. Dawn Schoolcraft with Asbestos Inspections, LLC on May 1, 2019. The report was prepared and reviewed by the undersigned inspector.

Inspection Performed by:	SCDEHC #	Expires	Signature	Date
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/1/19
Report Prepared by:				
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/16/19
Report Reviewed by:				
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/16/19

Asbestos Inspections, LLC

2.0 COVER LETTER

May 16, 2019

Capital Projects & Purchasing Department
Ms. Kaye Syfrett
113 Mable T. Willis Boulevard
Walterboro, South Carolina 29488

Subject: Asbestos Inspection Report
107 Colson Street
Walterboro, South Carolina
Asbestos Inspections, LLC Project # 2019-01-137

Dear Ms. Syfrett,

Asbestos Inspections, LLC has completed an Asbestos Inspection for the vacant residence located at 107 Colson Street, in Walterboro, South Carolina. The inspection was completed on May 1, 2019 by a South Carolina Department of Health and Environmental Control (SCDHEC) building inspector.

The following report summarizes the project background, assessment procedures, results, and conclusions. The results presented in this report are indicative of conditions during the time of the inspection and of the specific areas outlined. The information provided in this report should not be used as a bidding document and field conditions should be verified. Should suspect building materials, not included within this report, be identified or impacted during the destructive activities, bulk samples must be collected and analyzed for asbestos content.

I appreciate this opportunity to provide my services. Should you have any questions concerning this report, please contact me at (843) 397-7008 or (843) 995-5197.

Sincerely,

Dawn Schoolcraft

Dawn Schoolcraft
Asbestos Building Inspector (SCDHEC #BI-00738)

3.0 EXECUTIVE SUMMARY

3.1 Scope and Purpose

Ms. Kaye Syfrett, with Colleton County, requested this inspection for the vacant residence located at 107 Colson Street, in Walterboro, South Carolina. It is our understanding that the structure is scheduled for demolition. The purpose of this assessment is to identify asbestos containing materials (ACMs) prior to the scheduled demolition.

The inspection was completed in accordance with procedures specified in SCDHEC regulation 61.86.1 along with Occupational Safety and Health Administration (OSHA) regulation 29 Code of the Federal Regulations (CFR) 1926. The representative bulk samples collected were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory which is administered by the National Institute of Standards and Technology (NIST). This report has been prepared in accordance with Environmental Protection Agency (EPA) 40 CFR, 763.85(a)(4).

3.2 Facility Conditions

The vacant structure is an approximately 896 square-feet home, constructed on a crawlspace foundation, with a pitched sheet metal roof. The exterior consists of wood siding, cementitious siding, and wood windows with identified window glazing. The interior consists of wood walls and ceilings, ceiling tile, floor tile, and vinyl sheet flooring.

Suspect materials sampled and analyzed during this inspection included cementitious siding, window glazing, ceiling tile, floor tile, and vinyl sheet flooring.

The possibility exists that suspect materials were undetected in inaccessible areas to enter, including but not limited to: locked rooms, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during renovation, bulk samples should be collected and analyzed for asbestos content.

3.3 Findings and Conclusions

The EPA and SCDHEC define materials as asbestos containing if an asbestos content >1% is identified in a representative sample. **Asbestos >1% was detected** in the following materials sampled and analyzed:

- F3 – Beige floor tile – Approximately 182 sf
- S1 – White/gray cementitious siding – Approximately 648 sf. Please know that the siding was also found inside the home behind wood as shown on Figure 2 in Appendix 1.

The above identified ACM should be removed by a properly licensed asbestos abatement contractor. A copy of this report along with an abatement and demolition application should be submitted to SCDHEC at least 4 working days prior to any asbestos abatement and 10 days prior to any demolition activities. Additionally, a

copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The results presented in this report are indicative of conditions during the time of the assessment. The information provided in this report should not be used as a bidding document and field conditions and quantities should be verified.

4.0 ASBESTOS ASSESSMENT DATA

The assessment was performed by observing and sampling suspect ACMs in the structure prior to the scheduled demolition. Representative bulk samples were then extracted, recorded on a chain of custody, and submitted to CEI Labs of Cary, North Carolina for laboratory analysis. The samples were tested via Polarized Light Microscopy (PLM); however, SCDHEC requires a Transmission Electron Microscopy (TEM) test be performed for all non-friable organically bound material found negative via PLM.

The following table exhibits the suspect material sampled, location, quantity of material sampled, condition of material, potential for future disturbance, laboratory test method, and laboratory result for each sample collected.

Sample #	Material	Location	Cat./# Samples	Qty.	Asbestos Type	%	Cond.	Pot. Dist.	Haz. Assess.	Test Method
F1-01	Brown, Gray Floor Tile	Front Left Bedroom	M/3	143 sf	ND	0	G/NF	PSD	3	PLM
	Clear Mastic				ND	0	G/NF	PSD	3	PLM
F1-02	Brown, Gray Floor Tile				ND	0	G/NF	PSD	3	PLM
	Clear Mastic				ND	0	G/NF	PSD	3	PLM
F1-03	Brown, Gray Floor Tile				ND	0	G/NF	PSD	3	TEM
	Clear Mastic				ND	0	G/NF	PSD	3	TEM
F2-01	Gray, Beige Sheet Flooring	Front Middle Bedroom	M/3	160 sf	ND	0	G/NF	PSD	3	PLM
	Red, Black Vapor Barrier (Sheet Flooring)				ND	0	G/NF	PSD	3	PLM
F2-02	Gray, Beige Sheet Flooring				ND	0	G/NF	PSD	3	PLM
	Red, Black Vapor Barrier (Sheet Flooring)				ND	0	G/NF	PSD	3	PLM
F2-03	Gray, Beige Sheet Flooring				ND	0	G/NF	PSD	3	TEM
	Red, Black Vapor Barrier (Sheet Flooring)				Chrysotile	<1	G/NF	PSD	3	TEM
F3-01	**Beige Floor Tile**	**Rear Right Living Area**	**M/3**	**182 sf**	**Chrysotile**	**5**	**G/NF**	**PSD**	**3**	**PLM**
	Tan Mastic				ND	0	G/NF	PSD	3	PLM
F3-02	**Beige Floor Tile**				-	-	-	-	-	-
	Tan Mastic				-	-	-	-	-	-
F3-03	**Beige Floor Tile**				-	-	-	-	-	-
	Tan Mastic				-	-	-	-	-	-
CT-01	White, Brown Ceiling Tile	Rear Middle Bedroom	M/3	90 sf	ND	0	G/F	PSD	3	PLM

Sample #	Material	Location	Cat./# Samples	Qty.	Asbestos Type	%	Cond.	Pot. Dist.	Haz. Assess.	Test Method
CT-02	White, Brown Ceiling Tile				ND	0	G/F	PSD	3	PLM
CT-03	White, Brown Ceiling Tile				ND	0	G/F	PSD	3	PLM
S1-01	**White, Gray Cementitious Siding**	**Exterior Siding – Was Found On Select Interior Walls As Shown on Fig. 2**	**M/3**	**648 sf**	**Chrysotile**	**15**	**G/NF**	**PSD**	**3**	**PLM**
	Black Felt Paper				ND	0	G/NF	PSD	3	PLM
S1-02	**White, Gray Cementitious Siding**				-	-	-	-	-	-
	Black Felt Paper									
S1-03	**White, Gray Cementitious Siding**				-	-	-	-	-	-
	Black Felt Paper				ND	0	G/F	PSD	3	TEM
WG-01	White Window Glazing	Exterior Windows	M/3	300 lf	ND	0	SD/NF	PSD	7	PLM
WG-02	White Window Glazing				ND	0	SD/NF	PSD	7	PLM
WG-03	White Window Glazing				ND	0	SD/NF	PSD	7	TEM

Abbreviations and Hazard Assessment Key

Category and Sampling #'s

Miscellaneous (M) = 3 samples required
Surfacing (S) = <1,000 sf = 3 samples required; 1,000-5,000 sf = 5 samples; >5,000 sf = 7 samples
Thermal System Insulation (TSI) = < 6 sf = 1 sample required; > 6 sf = 3 samples

Present Condition

F = Friable G = Good (very localized limited damage)
NF = Non-friable D = Damaged (Damage of less than 10% distributed and less than 25% localized)
SD = Significantly Damaged (Damage equal to or greater than 10% distributed/25% localized)

Potential for Future Disturbance

LPD = Low potential for disturbance (Contact, vibration, and air erosion all of low concern)
PD = Potential for damage (Contact, vibration, or air erosion of moderate concern)
PSD = Potential for significant damage (Contact, vibration, or air erosion of high concern)

Hazard Assessment – *Present Condition Versus Potential for Future Disturbance*

Good *Damaged* *Significantly Damaged* = 7
LPD = 1 LPD = 4
PD = 2 PD = 5
PSD = 3 PSD = 6

Test Method

PLM = Polarized Light Microscopy
TEM = Transmission Electron Microscopy (required by SCDHEC for confirmation of negative results for non-friable organically bound materials)
-- = Sample not analyzed due to positive PLM results.

Misc.

sf = Square Feet lf = Linear Feet
ND = None Detected
EPA, SCDHEC, and OSHA define a material as asbestos containing if an asbestos content greater than 1% is detected.

Please understand that quantities are estimated and should not be used for bidding purposes. Field conditions should be verified prior to bidding.

Site location and sample locations are identified as Figures 1 thru 2 of Appendix 1 of this report, photographs are in Appendix 2, laboratory results are in Appendix 3, and license is in Appendix 4.

5.0 CONCLUSIONS

The EPA and SCDHEC define materials as asbestos containing if an asbestos content >1% is detected in a representative sample. **Asbestos >1 % was detected** in the following materials sampled and analyzed for the vacant residence located at 107 Colson Street, in Walterboro, South Carolina:

- F3 – Beige floor tile – Approximately 182 sf
- S1 – White/gray cementitious siding – Approximately 648 sf. Please know that the siding was also found inside the home behind wood as shown on Figure 2 in Appendix 1.

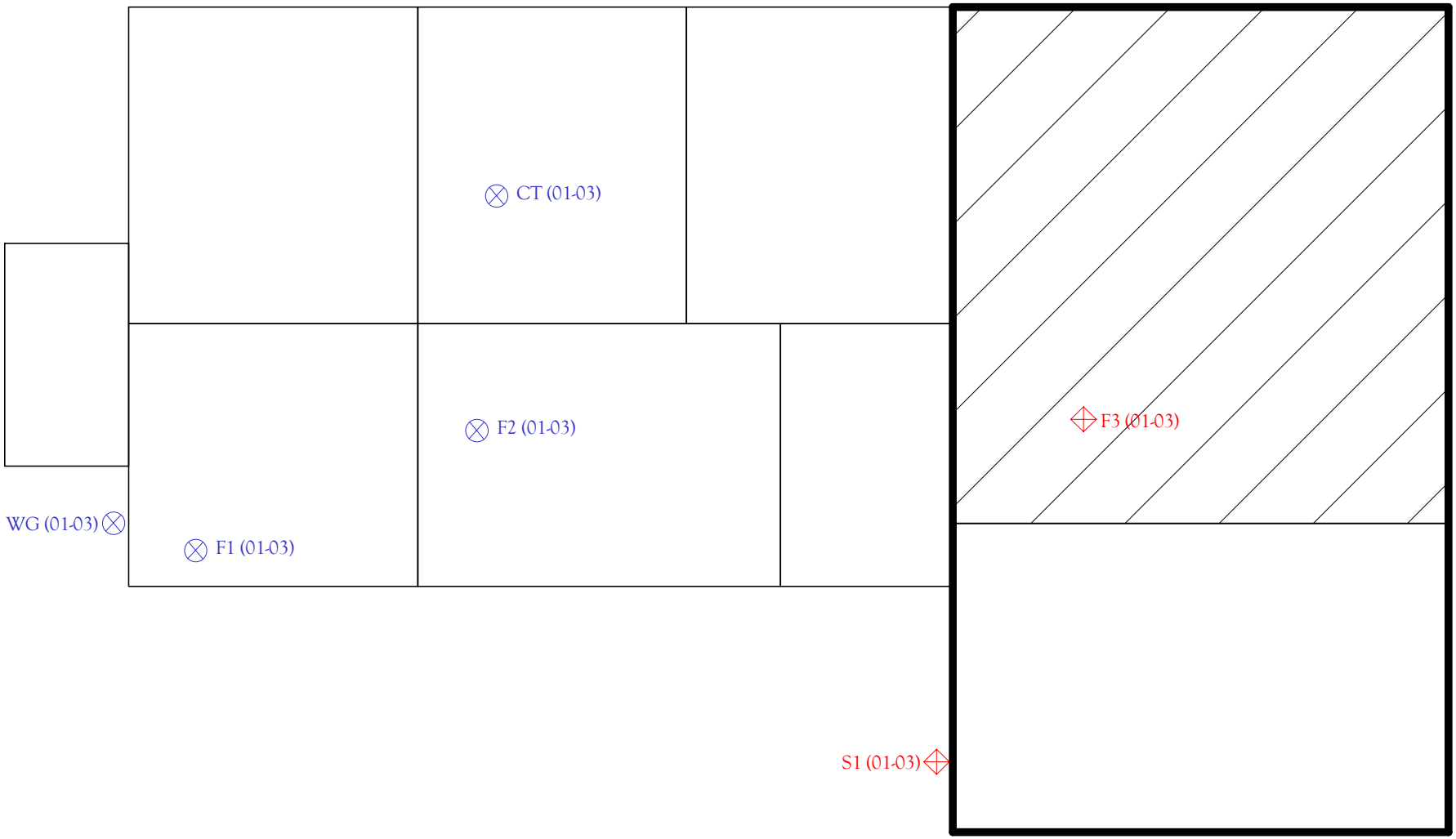
The above identified ACM should be removed by a properly licensed asbestos abatement contractor. A copy of this report along with an abatement and demolition application should be submitted to SCDHEC at least 4 working days prior to any asbestos abatement and 10 days prior to demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, locked rooms, behind exterior veneer, pipe chases, below the wood roof decking, or wall voids. If additional suspect materials not included in this report are discovered during demolition, bulk samples should be collected and analyzed for asbestos content.

APPENDIX 1

Site Location Plan and Sample Location Plan (Figures 1 thru 2)

Asbestos Inspections, LLC	Site Location Plan 107 Colson Street Walterboro, SC Project # - 2019-01-137	Scale: Not to Scale Reviewed By: DS Date: 5/16/2019 Source: N/A	**Figure 1**



LEGEND

- Sample Location
- Asbestos Containing Sample Location
- Asbestos containing sheet floor - Approx. 182 sf
- Asbestos containing cementitious siding - Approx. 648 sf. Please know that the siding was identified inside the home behind wood paneling as shown above.

Asbestos Inspections, LLC	Sample Location Plan 107 Colson Street Walterboro, SC Project # - 2019-01-137	Scale: Not to Scale Reviewed By: DS Date: 5/19/2019 Source: N/A	**Figure 2**

APPENDIX 2

Photographs

ASBESTOS INSPECTION REPORT
107 COLSON STREET
Project Number – 2019-01-137
May 16, 2019

Back of Home

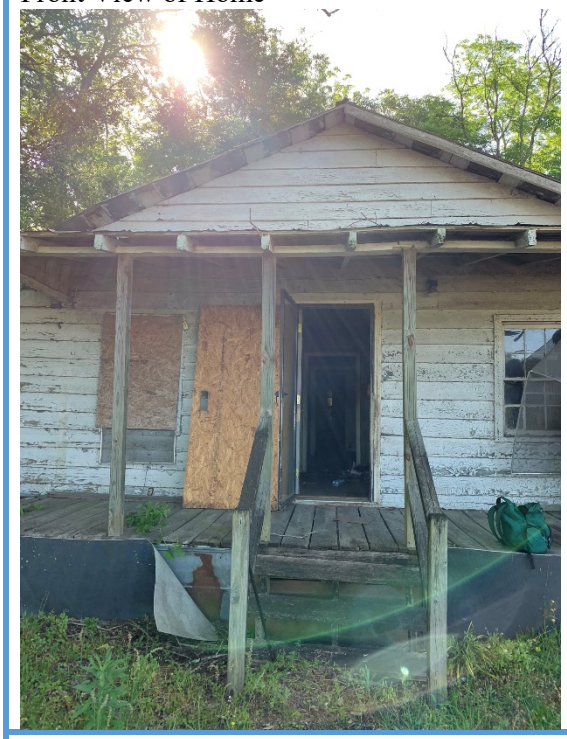
Side of Home

Side of Home

Front Porch

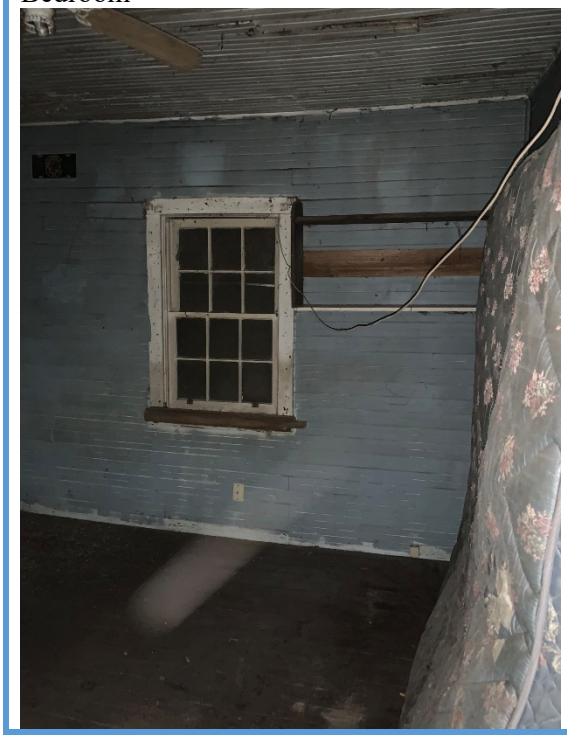
ASBESTOS INSPECTION REPORT
107 COLSON STREET
Project Number – 2019-01-137
May 16, 2019

Front View of Home



Living Room

Bedroom



Kitchen

Bedroom

Bedroom

Bedroom

Bedroom

ASBESTOS INSPECTION REPORT
107 COLSON STREET
Project Number – 2019-01-137
May 16, 2019

Asbestos Testing Notification

APPENDIX 3

Asbestos Laboratory Results

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May 9, 2019

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: 107 Colson Street
CEI LAB CODE: B192173

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on May 2, 2019. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

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ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: 107 Colson Street

LAB CODE: B192173

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/09/19

TOTAL SAMPLES ANALYZED: 13

SAMPLES >1% ASBESTOS: 2

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 107 Colson Street **LAB CODE:** B192173

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
F1-01		B37040A	Brown,Gray	Floor Tile	None Detected
		B37040B	Clear	Mastic	None Detected
F1-02		B37041A	Brown,Gray	Floor Tile	None Detected
		B37041B	Clear	Mastic	None Detected
F1-03		B37042		Sample Submitted for TEM Analysis	
F2-01		B37043A	Gray,Beige	Sheet Flooring	None Detected
		B37043B	Red,Black	Vapor Barrier (Sheet Flooring)	None Detected
F2-02		B37044A	Gray,Beige	Sheet Flooring	None Detected
		B37044B	Red,Black	Vapor Barrier (Sheet Flooring)	None Detected
F2-03		B37045		Sample Submitted for TEM Analysis	
F3-01		B37046A	Beige	Floor Tile	Chrysotile 5%
		B37046B	Tan	Mastic	None Detected
F3-02		B37047		Sample Not Analyzed per COC	
F3-03		B37048		Sample Not Analyzed per COC	
CT-01		B37049	White,Brown	Ceiling Tile	None Detected
CT-02		B37050	White,Brown	Ceiling Tile	None Detected
CT-03		B37051	White,Brown	Ceiling Tile	None Detected
S1-01	Layer 1	B37052	White,Gray	Cementitious Siding	Chrysotile 15%
	Layer 2	B37052	Black	Felt Paper	None Detected
S1-02	Layer 1	B37053		Sample Not Analyzed per COC	
	Layer 2	B37053	Black	Felt Paper	None Detected
S1-03	Layer 1	B37054		Sample Not Analyzed per COC	
	Layer 2	B37054		Sample Submitted for TEM Analysis	
WG-01		B37055	White	Window Glazing	None Detected
WG-02		B37056	White	Window Glazing	None Detected
WG-03		B37057		Sample Submitted for TEM Analysis	

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: B192173
Date Received: 05-02-19
Date Analyzed: 05-09-19
Date Reported: 05-09-19

Project: 107 Colson Street

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
F1-01 B37040A	Floor Tile	Heterogeneous Brown,Gray Non-fibrous Bound			100%	Vinyl	None Detected
B37040B	Mastic	Homogeneous Clear Non-fibrous Bound			100%	Mastic	None Detected
F1-02 B37041A	Floor Tile	Heterogeneous Brown,Gray Non-fibrous Bound			100%	Vinyl	None Detected
B37041B	Mastic	Homogeneous Clear Non-fibrous Bound			100%	Mastic	None Detected
F1-03 B37042	Sample Submitted for TEM Analysis						
F2-01 B37043A	Sheet Flooring	Heterogeneous Gray,Beige Fibrous Bound	10%	Talc	50% 40%	Vinyl Binder	None Detected
B37043B	Vapor Barrier (Sheet Flooring)	Heterogeneous Red,Black Fibrous Bound	60%	Cellulose	15% 25%	Vinyl Tar	None Detected
F2-02 B37044A	Sheet Flooring	Heterogeneous Gray,Beige Fibrous Bound	10%	Talc	50% 40%	Vinyl Binder	None Detected

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
B37044B	Vapor Barrier (Sheet Flooring)	Heterogeneous Red,Black Fibrous Bound	60%	Cellulose	15% 25%	Vinyl Tar	None Detected
F2-03 B37045	Sample Submitted for TEM Analysis						
F3-01 B37046A	Floor Tile	Heterogeneous Beige Non-fibrous Bound			95%	Vinyl	**5% Chrysotile**
B37046B	Mastic	Homogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
F3-02 B37047	Sample Not Analyzed per COC						
F3-03 B37048	Sample Not Analyzed per COC						
CT-01 B37049	Ceiling Tile	Heterogeneous White,Brown Fibrous Bound	90%	Cellulose	3% 7%	Paint Perlite	None Detected
CT-02 B37050	Ceiling Tile	Heterogeneous White,Brown Fibrous Bound	90%	Cellulose	3% 7%	Paint Perlite	None Detected
CT-03 B37051	Ceiling Tile	Heterogeneous White,Brown Fibrous Bound	90%	Cellulose	3% 7%	Paint Perlite	None Detected

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ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: B192173
Date Received: 05-02-19
Date Analyzed: 05-09-19
Date Reported: 05-09-19

Project: 107 Colson Street

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
S1-01 Layer 1 B37052	Cementitious Siding	Heterogeneous White,Gray Fibrous Bound			60% 20% 5%	Binder Silicates Paint	**15% Chrysotile**
Layer 2 B37052	Felt Paper	Heterogeneous Black Fibrous Bound	80%	Cellulose	20%	Tar	None Detected
S1-02 Layer 1 B37053	Sample Not Analyzed per COC						
Layer 2 B37053	Felt Paper	Heterogeneous Black Fibrous Bound	80%	Cellulose	20%	Tar	None Detected
S1-03 Layer 1 B37054	Sample Not Analyzed per COC						
Layer 2 B37054	Sample Submitted for TEM Analysis						
WG-01 B37055	Window Glazing	Heterogeneous White Fibrous Bound	5%	Talc	85% 10%	Binder Calc Carb	None Detected
WG-02 B37056	Window Glazing	Heterogeneous White Fibrous Bound	5%	Talc	85% 10%	Binder Calc Carb	None Detected
WG-03 B37057	Sample Submitted for TEM Analysis						

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LEGEND:
Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Taylor B. Metcalf

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

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CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:	
ECEI Lab Code:	B192173 (18)
ECEI Lab I.D. Range:	B37040 - B37057

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: 107 Colson Street
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN:

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	■
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

Blanks should be taken from the same sample lot as field samples.

REMARKS / SPECIAL INSTRUCTIONS: Please analyze TEM following negative PLM.

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	5/2/2019 8:30	NR	5-2-19 10:00

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

Version: CCOC.07.18.1/2.LD

B192173

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: 107 Colson Street	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
F1 (01-03)	Wood Peel & Stick Floor Tile		PLM [x]	TEM [x]
F2 (01-03)	Sheet Floor & Vapor Barrier		PLM [x]	TEM [x]
F3 (01-03)	Beige Floor Tile/Tan Mastic		PLM [x]	TEM [x]
CT (01-03)	Ceiling Tile		PLM [x]	TEM [ ]
S1 (01-03)	Cementitious Siding		PLM [x]	TEM [ ]
WG (01-03)	Window Glaze		PLM [x]	TEM [x]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
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			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]

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May 15, 2019

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: 107 Colson Street
LAB CODE: T191693

Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on May 9, 2019. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield Method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

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ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: 107 Colson Street

LAB CODE: T191693

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116

REPORT DATE: 05/15/19

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Project: 107 Colson Street

Lab Code: T191693
Date Received: 05-09-19
Date Analyzed: 05-13-19
Date Reported: 05-15-19

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
F1-03 T99774	Floor Tile	0.303	22.1	74.3	3.6	**None Detected**
F1-03 T99775	Mastic	0.776	95	4.6	.4	**None Detected**
F2-03 T99776	Sheet Flooring	0.398	47.2	20.6	32.2	**None Detected**
F2-03 T99777	Vapor Barrier	0.273	76.9	20.9	2.2	**<1% Chrysotile**
S1-03 T99778	Felt Paper	01.047	93.1	2.9	4	**None Detected**
WG-03 T99779	Window Glazing	0.883	9.5	48.9	41.6	**None Detected**

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LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. *Estimated measurement of uncertainty is available on request.* Samples were received in acceptable condition unless otherwise noted.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Brunilda Gjoka
Brunilda Gjoka

APPROVED BY:
Tianbao Bai, Ph.D., CIH
Laboratory Director

eurofins

T191693
T99774-779
CEI (6)

CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:	
ECEI Lab Code:	B192173 (18)
ECEI Lab I.D. Range:	B37040 - B37057

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: 107 Colson Street
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN:

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	■
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS: Please analyze TEM following negative PLM.

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	5/2/2019 8:30	NR	5-2-19 10:00
	5-9-19 7:20		

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

Version: CCOC.07.18.1/2.LD

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: 107 Colson Street	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
F1 (01-03)	Wood Peel & Stick Floor Tile		PLM ■	TEM ■
F2 (01-03)	Sheet Floor & Vapor Barrier		PLM ■	TEM ■
F3 (01-03)	Beige Floor Tile/Tan Mastic		PLM ■	TEM ■
CT (01-03)	Ceiling Tile		PLM ■	TEM □
S1 (01-03)	Cementitious Siding		PLM ■	TEM □
WG (01-03)	Window Glaze		PLM ■	TEM ■
			PLM □	TEM □
			PLM □	TEM □
			PLM □	TEM □
			PLM □	TEM □
			PLM □	TEM □
			PLM □	TEM □
			PLM □	TEM □
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			PLM □	TEM □
			PLM □	TEM □

Page _______ of _______

APPENDIX 4

License

[redacted]

SCDHEC ISSUED

Asbestos ID Card

Dawn Schoolcraft

		Expiration Date:
AIRSAMPLER	AS-00418	06/15/19
CONSULTMP	MP-00245	06/13/19
CONSULTBI	BI-00738	06/13/19
CONSULTPD	PD-00157	06/14/19

ASBESTOS INSPECTION REPORT
205 GADSDEN LOOP
Walterboro, South Carolina
Asbestos Inspections, LLC Project # 2019-01-137
Performed in general accordance with SCDHEC regulation 61-86.1
along with OSHA regulation 29 CFR 1926

Assessment Completed by:

Asbestos Inspections, LLC
4686 Pee Dee Highway
Conway, South Carolina 29527
(843) 397-7008

Dawn Schoolcraft
SCDHEC ID# BI-00738

Assessment Completed For:

Capital Projects & Purchasing Department
Ms. Kaye Syfrett
113 Mable T. Willis Boulevard
Walterboro, South Carolina 29488

Inspection Completed On – May 1, 2019
Report Prepared On – May 16, 2019

TABLE OF CONTENTS

1.0 SIGNATURE PAGE

This report has been performed at the request of Ms. Kaye Syfrett with Colleton County. The inspection was conducted by Mrs. Dawn Schoolcraft with Asbestos Inspections, LLC on May 1, 2019. The report was prepared and reviewed by the undersigned inspector.

Inspection Performed by:	SCDEHC #	Expires	Signature	Date
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/1/19
Report Prepared by:				
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/16/19
Report Reviewed by:				
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/16/19

Asbestos Inspections, LLC

2.0 COVER LETTER

May 16, 2019

Capital Projects & Purchasing Department
Ms. Kaye Syfrett
113 Mable T. Willis Boulevard
Walterboro, South Carolina 29488

Subject: Asbestos Inspection Report
205 Gadsden Loop
Walterboro, South Carolina
Asbestos Inspections, LLC Project # 2019-01-137

Dear Ms. Syfrett,

Asbestos Inspections, LLC has completed an Asbestos Inspection for the vacant residence located at 205 Gadsden Loop, in Walterboro, South Carolina. The inspection was completed on May 1, 2019 by a South Carolina Department of Health and Environmental Control (SCDHEC) building inspector.

The following report summarizes the project background, assessment procedures, results, and conclusions. The results presented in this report are indicative of conditions during the time of the inspection and of the specific areas outlined. The information provided in this report should not be used as a bidding document and field conditions should be verified. Should suspect building materials, not included within this report, be identified or impacted during the destructive activities, bulk samples must be collected and analyzed for asbestos content.

I appreciate this opportunity to provide my services. Should you have any questions concerning this report, please contact me at (843) 397-7008 or (843) 995-5197.

Sincerely,

Dawn Schoolcraft

Dawn Schoolcraft
Asbestos Building Inspector (SCDHEC #BI-00738)

3.0 EXECUTIVE SUMMARY

3.1 Scope and Purpose

Ms. Kaye Syfrett, with Colleton County, requested this inspection for the vacant residence located at 205 Gadsden Loop, in Walterboro, South Carolina. It is our understanding that the structure is scheduled for demolition. The purpose of this assessment is to identify asbestos containing materials (ACMs) prior to the scheduled demolition.

The inspection was completed in accordance with procedures specified in SCDHEC regulation 61.86.1 along with Occupational Safety and Health Administration (OSHA) regulation 29 Code of the Federal Regulations (CFR) 1926. The representative bulk samples collected were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory which is administered by the National Institute of Standards and Technology (NIST). This report has been prepared in accordance with Environmental Protection Agency (EPA) 40 CFR, 763.85(a)(4).

3.2 Facility Conditions

The vacant structure is approximately 1,269 square-feet home, constructed on a crawlspace foundation, with a pitched asphalt shingle roof. The exterior consists of a brick veneer with wood windows with identified window glazing. The interior has sustained significant fire damage. The interior consists of drywall ceilings, texture ceiling, wood walls, select drywall walls, floor tile, and vinyl sheet floor.

Suspect materials sampled and analyzed during this inspection drywall ceiling with associated joint compound, ceiling tile, floor tile, vinyl sheet floor, window glazing, and roofing material.

The possibility exists that suspect materials were undetected in inaccessible areas to enter, including but not limited to: locked rooms, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during renovation, bulk samples should be collected and analyzed for asbestos content.

3.3 Findings and Conclusions

The EPA and SCDHEC define materials as asbestos containing if an asbestos content >1% is identified in a representative sample. **Asbestos >1% was detected** in the following materials sampled and analyzed:

- DW1 – Cream joint compound on associated white drywall ceilings throughout to include drywall walls in bathroom and utility closet – Approximately 1,696 sf total (includes ceilings and select walls).

The above identified ACM should be removed by a properly licensed asbestos abatement contractor. Asbestos air monitoring will also be required during abatement. Due to the significant fire damage, typical abatement activities will most likely not be practical as the structure has sustained structural damage. A variance will most likely be needed to include a project design for non-typical asbestos abatement. A copy of this report

along with an abatement application should be submitted to SCDHEC at least 10 working days prior to any abatement activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The results presented in this report are indicative of conditions during the time of the assessment. The information provided in this report should not be used as a bidding document and field conditions and quantities should be verified.

4.0 ASBESTOS ASSESSMENT DATA

The assessment was performed by observing and sampling suspect ACMs in the structure prior to the scheduled demolition. Representative bulk samples were then extracted, recorded on a chain of custody, and submitted to CEI Labs of Cary, North Carolina for laboratory analysis. The samples were tested via Polarized Light Microscopy (PLM); however, SCDHEC requires a Transmission Electron Microscopy (TEM) test be performed for all non-friable organically bound material found negative via PLM.

The following table exhibits the suspect material sampled, location, quantity of material sampled, condition of material, potential for future disturbance, laboratory test method, and laboratory result for each sample collected.

Sample #	Material	Location	Cat./# Samples	Qty.	Asbestos Type	%	Cond.	Pot. Dist.	Haz. Assess.	Test Method
F1-01	Green Floor Tile	Bathroom	M/3	50 sf	ND	0	D/NF	PSD	6	PLM
	Cream Mastic				ND	0	D/NF	PSD	6	PLM
F1-02	Green Floor Tile				ND	0	D/NF	PSD	6	PLM
	Cream Mastic				ND	0	D/NF	PSD	6	PLM
F1-03	Green Floor Tile				ND	0	D/NF	PSD	6	TEM
	Cream Mastic				ND	0	D/NF	PSD	6	TEM
F2-01	Beige Sheet Floor	Kitchen	M/3	120 sf	ND	0	D/NF	PSD	6	PLM
	Tan Mastic				ND	0	D/NF	PSD	6	PLM
	White Leveling Compound				ND	0	D/NF	PSD	6	PLM
F2-02	Beige Sheet Floor				ND	0	D/NF	PSD	6	PLM
	Tan Mastic				ND	0	D/NF	PSD	6	PLM
	White Leveling Compound				ND	0	D/NF	PSD	6	PLM
F2-03	Beige Sheet Floor				ND	0	D/NF	PSD	6	TEM
	Tan Mastic				ND	0	D/NF	PSD	6	TEM
	White Leveling Compound				ND	0	D/NF	PSD	6	TEM
DW1-01	White Drywall	**Ceilings Throughout to Include Walls in Bathroom and Utility Room at Hall**	**S/5**	**1,696 sf**	ND	0	SD/F	PSD	7	PLM
	Cream Joint Compound				**Chrysotile**	**2**	**SD/F**	**PSD**	**7**	**PLM**
	Cream Joint Compound				**Chrysotile**	**2**	**SD/F**	**PSD**	**7**	**PLM**
DW1-02	White Drywall				ND	0	SD/F	PSD	7	PLM
	Cream Joint Compound				-	-	-	-	-	-
	Cream Joint Compound				-	-	-	-	-	-
DW1-03	White Drywall				ND	0	SD/F	PSD	7	PLM
	Cream Joint Compound				-	-	-	-	-	-

Sample #	Material	Location	Cat./# Samples	Qty.	Asbestos Type	%	Cond.	Pot. Dist.	Haz. Assess.	Test Method
	Cream Joint Compound				-	-	-	-	-	-
DW1-04	White Drywall				ND	0	SD/F	PSD	7	PLM
	Cream Joint Compound				-	-	-	-	-	-
	Cream Joint Compound				-	-	-	-	-	-
DW1-05	White Drywall				ND	0	SD/F	PSD	7	PLM
	Cream Joint Compound				-	-	-	-	-	-
	Cream Joint Compound				-	-	-	-	-	-
CT1-01	Cream, Brown Ceiling Tile	Closed In Garage	M/3	sf	ND	0	G/F	PSD	3	PLM
CT1-02	Cream, Brown Ceiling Tile				ND	0	G/F	PSD	3	PLM
CT1-03	Cream, Brown Ceiling Tile				ND	0	G/F	PSD	3	PLM
WG-01	White, Cream Window Glaze	Windows	M/3	400 lf	ND	0	SD/F	PSD	7	PLM
WG-02	White, Cream Window Glaze				ND	0	SD/F	PSD	7	PLM
WG-03	White, Cream Window Glaze				ND	0	SD/F	PSD	7	TEM
R1-01	Gray, Black Shingle	Roof	M/3	1,269 sf	ND	0	G/NF	PSD	3	PLM
	Black Tarpaper				ND	0	G/NF	PSD	3	PLM
R1-02	Gray, Black Shingle				ND	0	G/NF	PSD	3	PLM
	Black Tarpaper				ND	0	G/NF	PSD	3	PLM
R1-03	Gray, Black Shingle				ND	0	G/NF	PSD	3	TEM
	Black Tarpaper				ND	0	G/NF	PSD	3	TEM

Abbreviations and Hazard Assessment Key

Category and Sampling #'s

Miscellaneous (M) = 3 samples required

Surfacing (S) = <1,000 sf = 3 samples required; 1,000-5,000 sf = 5 samples; >5,000 sf = 7 samples

Thermal System Insulation (TSI) = < 6 sf = 1 sample required; > 6 sf = 3 samples

Present Condition

F = Friable G = Good (very localized limited damage)

NF = Non-friable D = Damaged (Damage of less than 10% distributed and less than 25% localized)

SD = Significantly Damaged (Damage equal to or greater than 10% distributed/25% localized)

Potential for Future Disturbance

LPD = Low potential for disturbance (Contact, vibration, and air erosion all of low concern)

PD = Potential for damage (Contact, vibration, or air erosion of moderate concern)

PSD = Potential for significant damage (Contact, vibration, or air erosion of high concern)

Hazard Assessment – *Present Condition Versus Potential for Future Disturbance*

Good	*Damaged*	*Significantly Damaged* = 7
LPD = 1	LPD = 4	
PD = 2	PD = 5	
PSD = 3	PSD = 6	

Test Method

PLM = Polarized Light Microscopy
TEM = Transmission Electron Microscopy (required by SCDHEC for confirmation of negative results for non-friable organically bound materials)
-- = Sample not analyzed due to positive PLM results.
Misc.
sf = Square Feet lf = Linear Feet
ND = None Detected
EPA, SCDHEC, and OSHA define a material as asbestos containing if an asbestos content greater than 1% is detected.

Please understand that quantities are estimated and should not be used for bidding purposes. Field conditions should be verified prior to bidding.

Site location and sample locations are identified as Figures 1 thru 2 of Appendix 1 of this report, photographs are in Appendix 2, laboratory results are in Appendix 3, and license is in Appendix 4.

5.0 CONCLUSIONS

The EPA and SCDHEC define materials as asbestos containing if an asbestos content >1% is detected in a representative sample. **Asbestos >1 % was detected** in the following materials sampled and analyzed for the vacant residence located at 205 Gadsden Loop, in Walterboro, South Carolina:

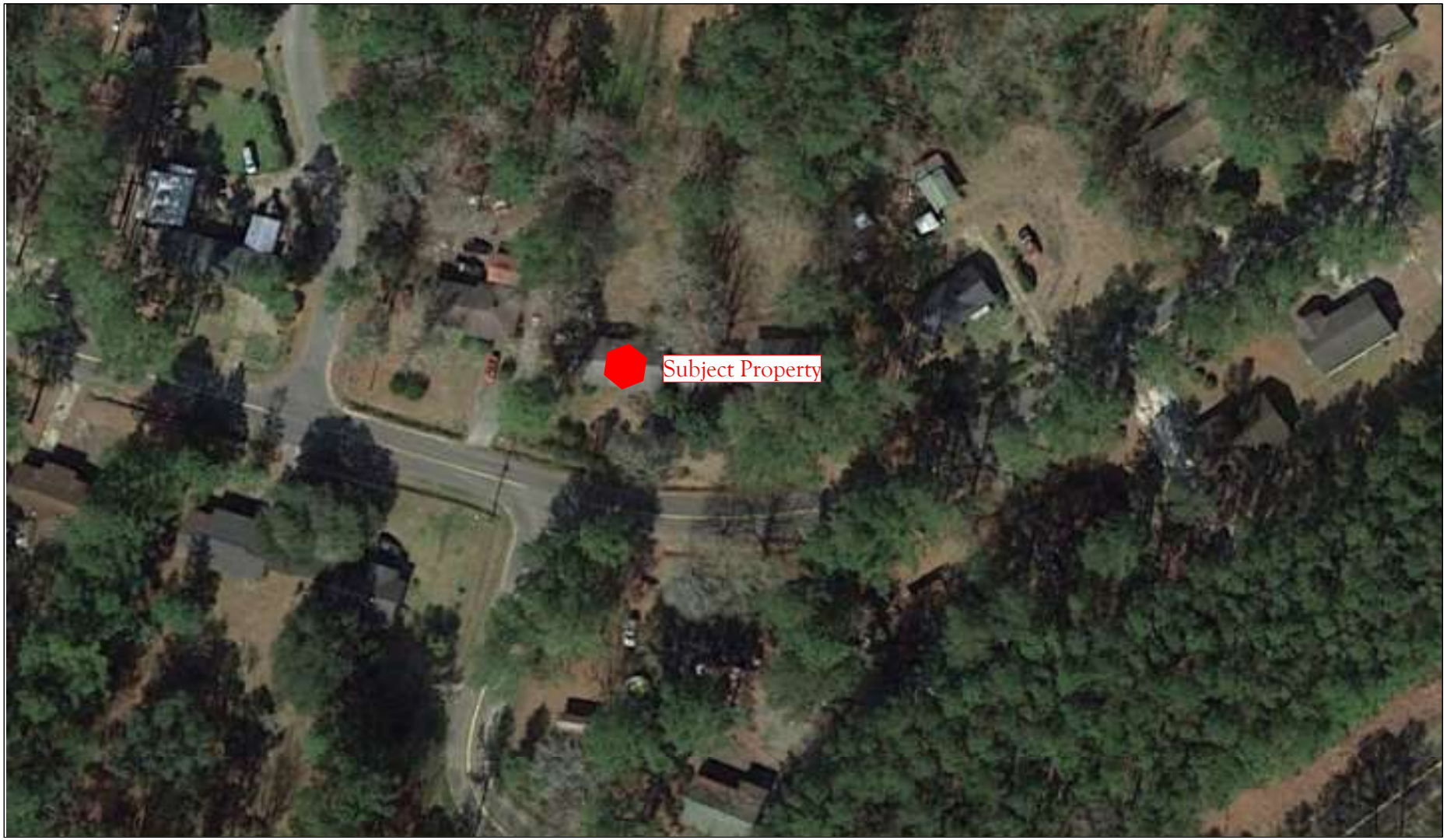
- DW1 – Cream joint compound on associated white drywall ceilings throughout to include drywall walls in bathroom and utility closet – Approximately 1,696 sf total (includes ceilings and select walls).

The above identified ACM should be removed by a properly licensed asbestos abatement contractor. Asbestos air monitoring will also be required during abatement. Due to the significant fire damage, typical abatement activities will most likely not be practical as the structure has sustained structural damage. A variance will most likely be needed to include a project design for non-typical asbestos abatement. A copy of this report along with an abatement application should be submitted to SCDHEC at least 10 working days prior to any abatement activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

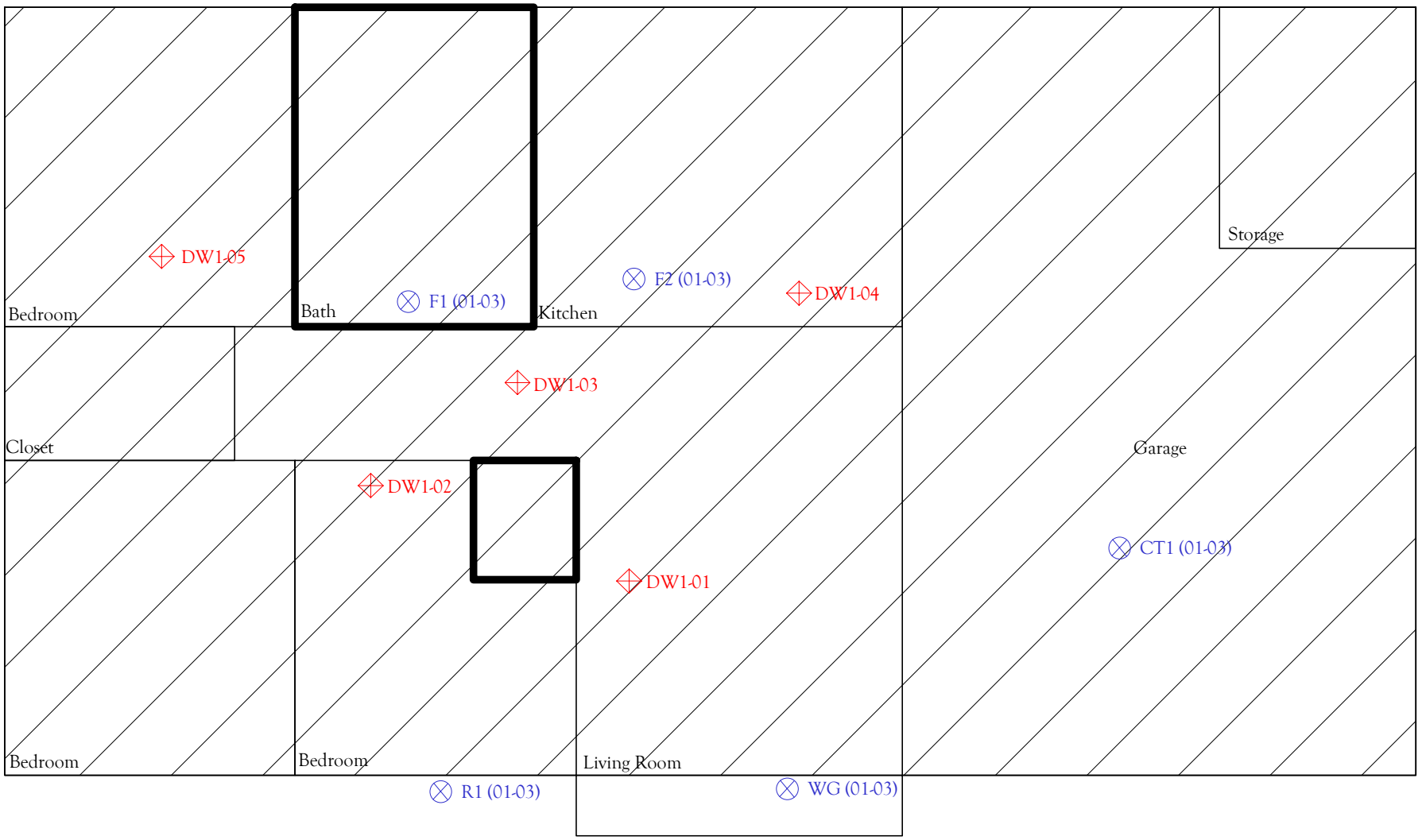
The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, locked rooms, behind exterior veneer, pipe chases, below the wood roof decking, or wall voids. If additional suspect materials not included in this report are discovered during demolition, bulk samples should be collected and analyzed for asbestos content.

APPENDIX 1

Site Location Plan and Sample Location Plan (Figures 1 thru 2)



Asbestos Inspections, LLC	Site Location Plan 205 Gadsden Loop Walterboro, SC Project # - 2019-01-137	Scale: Not to Scale Reviewed By: DS Date: 5/16/2019 Source: N/A	**Figure 1**



LEGEND

- Sample Location
- Asbestos Containing Sample Location
- Asbestos containing joint compound/texture associated with drywall ceilings throughout - Approx. 1,269 sf
- Asbestos containing joint compound assoicated with select drywall walls - Approx. 400 sf

Asbestos Inspections, LLC

Sample Location Plan
205 Gadsden Loop
Walterboro, SC
Project # - 2019-01-137

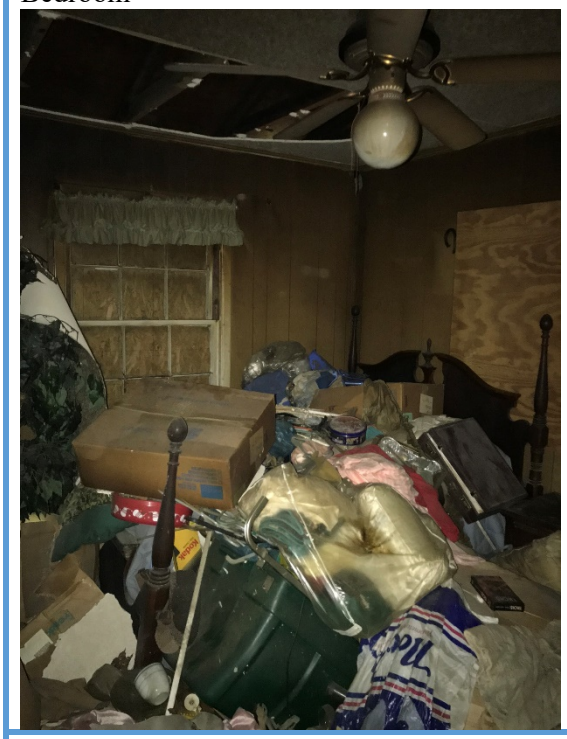
Scale: Not to Scale
Reviewed By: DS
Date: 5/16/2019
Source: N/A

Figure 2

APPENDIX 2

Photographs

Bedroom



Bedroom

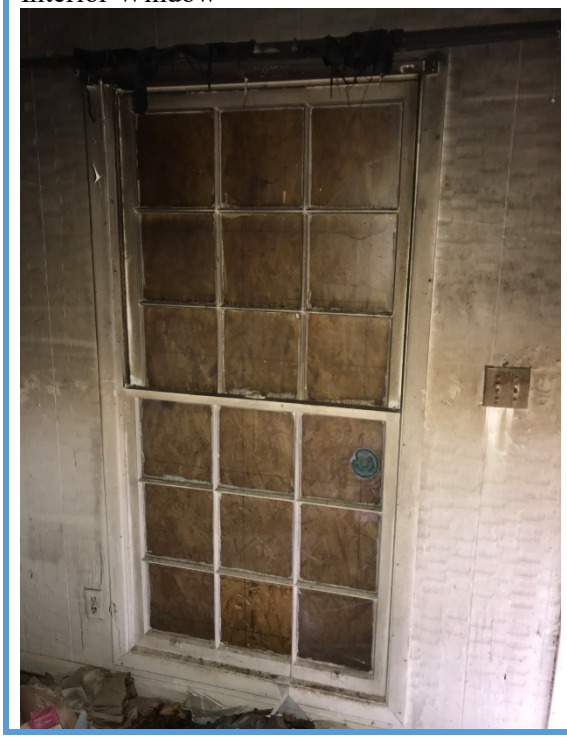
Significant Structure Damage

Significant Ceiling Damage

Significant Fire Damage

Signficant Ceiling Damage

Interior Window



Interior Window

ASBESTOS INSPECTION REPORT
205 GADSDEN LOOP
Project Number – 2019-01-137
May 16, 2019

Front of Home

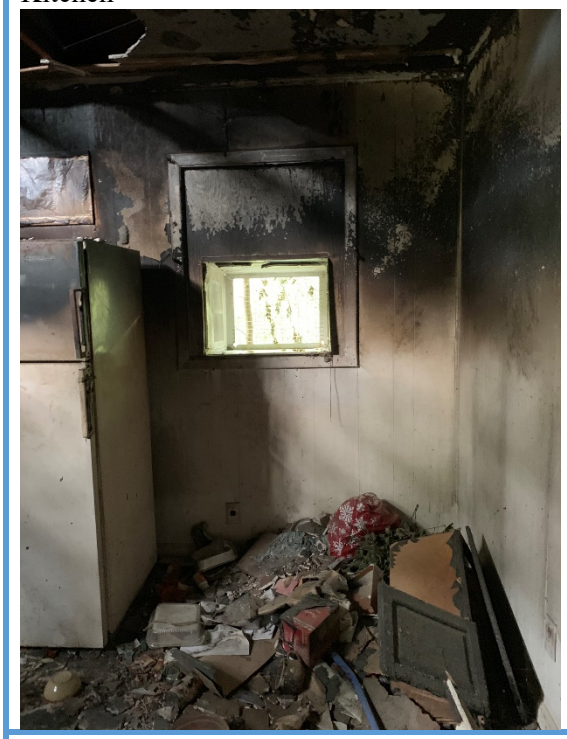
Significant Fire Damage Down Hall

Significant Ceiling Damage

Interior Window

ASBESTOS INSPECTION REPORT
205 GADSDEN LOOP
Project Number – 2019-01-137
May 16, 2019

Kitchen



Kitchen

Living Room

Living Room

ASBESTOS INSPECTION REPORT
205 GADSDEN LOOP
Project Number – 2019-01-137
May 16, 2019

Significant Fire Damage in Hall

Signficant Fire Damage to Bathroom

Side View of Home

Exterior View of Home

ASBESTOS INSPECTION REPORT
205 GADSDEN LOOP
Project Number – 2019-01-137
May 16, 2019

Asbestos Testing Notification

APPENDIX 3

Asbestos Laboratory Results

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May 9, 2019

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: 205 Gadsden Loop
CEI LAB CODE: B192172

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on May 2, 2019. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

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ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: 205 Gadsden Loop

LAB CODE: B192172

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/09/19

TOTAL SAMPLES ANALYZED: 17

SAMPLES >1% ASBESTOS: 2

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 205 Gadsden Loop

LAB CODE: B192172

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
F1-01		B37020A	Green	Floor Tile	None Detected
		B37020B	Cream	Mastic	None Detected
F1-02		B37021A	Green	Floor Tile	None Detected
		B37021B	Cream	Mastic	None Detected
F1-03		B37022		Sample Submitted for TEM Analysis	
F2-01		B37023A	Beige	Sheet Floor	None Detected
	Layer 1	B37023B	Tan	Mastic	None Detected
	Layer 2	B37023B	White	Leveling Compound	None Detected
F2-02		B37024A	Beige	Sheet Floor	None Detected
	Layer 1	B37024B	Tan	Mastic	None Detected
	Layer 2	B37024B	White	Leveling Compound	None Detected
F2-03		B37025A		Sample Submitted for TEM Analysis	
	Layer 1	B37025B		Sample Submitted for TEM Analysis	
	Layer 2	B37025B	White	Leveling Compound	None Detected
DW1-01	Layer 1	B37026	White	Drywall	None Detected
	Layer 2	B37026	Cream	Joint Compound	Chrysotile 2%
	Layer 3	B37026	Cream	Joint Compoun	Chrysotile 2%
DW1-02	Layer 1	B37027	White	Drywall	None Detected
	Layer 2	B37027		Sample Not Analyzed per COC	
	Layer 3	B37027		Sample Not Analyzed per COC	
DW1-03	Layer 1	B37028	White	Drywall	None Detected
	Layer 2	B37028		Sample Not Analyzed per COC	
	Layer 3	B37028		Sample Not Analyzed per COC	
DW1-04	Layer 1	B37029	White	Drywall	None Detected
	Layer 2	B37029		Sample Not Analyzed per COC	
	Layer 3	B37029		Sample Not Analyzed per COC	
DW1-05	Layer 1	B37030	White	Drywall	None Detected
	Layer 2	B37030		Sample Not Analyzed per COC	
	Layer 3	B37030		Sample Not Analyzed per COC	

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 205 Gadsden Loop **LAB CODE:** B192172

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
CT1-01		B37031	Cream,Brown	Ceiling Tile	None Detected
CT1-02		B37032	Cream,Brown	Ceiling Tile	None Detected
CT1-03		B37033	Cream,Brown	Ceiling Tile	None Detected
WG-01		B37034	White,Cream	Window Glaze	None Detected
WG-02		B37035	White,Cream	Window Glaze	None Detected
WG-03		B37036		Sample Submitted for TEM Analysis	
R1-01	Layer 1	B37037	Gray,Black	Shingle	None Detected
	Layer 2	B37037	Black	Tarpaper	None Detected
R1-02	Layer 1	B37038	Gray,Black	Shingle	None Detected
	Layer 2	B37038	Black	Tarpaper	None Detected
R1-03		B37039		Sample Submitted for TEM Analysis	

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: B192172
Date Received: 05-02-19
Date Analyzed: 05-09-19
Date Reported: 05-09-19

Project: 205 Gadsden Loop

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
F1-01 B37020A	Floor Tile	Heterogeneous Green Fibrous Bound	2%	Cellulose	60% 38%	Vinyl Calc Carb	None Detected
B37020B	Mastic	Homogeneous Cream Fibrous Bound	2%	Cellulose	60% 38%	Mastic Calc Carb	None Detected
F1-02 B37021A	Floor Tile	Heterogeneous Green Fibrous Bound	2%	Cellulose	60% 38%	Vinyl Calc Carb	None Detected
B37021B	Mastic	Homogeneous Cream Fibrous Bound	2%	Cellulose	60% 38%	Mastic Calc Carb	None Detected
F1-03 B37022	Sample Submitted for TEM Analysis						
F2-01 B37023A	Sheet Floor	Heterogeneous Beige Fibrous Bound	25%	Cellulose	50% 25%	Vinyl Binder	None Detected
Layer 1 B37023B	Mastic	Homogeneous Tan Fibrous Bound	2%	Cellulose	60% 38%	Mastic Calc Carb	None Detected
Layer 2 B37023B	Leveling Compound	Homogeneous White Fibrous Bound	2%	Cellulose	98%	Binder	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: B192172
Date Received: 05-02-19
Date Analyzed: 05-09-19
Date Reported: 05-09-19

Project: 205 Gadsden Loop

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
F2-02 B37024A	Sheet Floor	Heterogeneous Beige Fibrous Bound	25%	Cellulose	50% 25%	Vinyl Binder	None Detected
Layer 1 B37024B	Mastic	Homogeneous Tan Fibrous Bound	2%	Cellulose	60% 38%	Mastic Calc Carb	None Detected
Layer 2 B37024B	Leveling Compound	Homogeneous White Fibrous Bound	2%	Cellulose	98%	Binder	None Detected
F2-03 B37025A	Sample Submitted for TEM Analysis						
Layer 1 B37025B	Sample Submitted for TEM Analysis						
Layer 2 B37025B	Leveling Compound	Homogeneous White Fibrous Bound	2%	Cellulose	98%	Binder	None Detected
DW1-01 Layer 1 B37026	Drywall	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum	None Detected
Layer 2 B37026	Joint Compound	Heterogeneous Cream Fibrous Bound	2%	Cellulose	96%	Calc Carb	**2% Chrysotile**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: B192172
Date Received: 05-02-19
Date Analyzed: 05-09-19
Date Reported: 05-09-19

Project: 205 Gadsden Loop

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 3 B37026	Joint Compoun	Heterogeneous Cream Fibrous Bound	2%	Cellulose	5% 81% 10%	Paint Calc Carb Vermiculite	2% Chrysotile
DW1-02 Layer 1 B37027	Drywall	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum	None Detected
Layer 2 B37027	Sample Not Analyzed per COC						
Layer 3 B37027	Sample Not Analyzed per COC						
DW1-03 Layer 1 B37028	Drywall	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum	None Detected
Layer 2 B37028	Sample Not Analyzed per COC						
Layer 3 B37028	Sample Not Analyzed per COC						
DW1-04 Layer 1 B37029	Drywall	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum	None Detected
Layer 2 B37029	Sample Not Analyzed per COC						
Layer 3 B37029	Sample Not Analyzed per COC						

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: B192172
Date Received: 05-02-19
Date Analyzed: 05-09-19
Date Reported: 05-09-19

Project: 205 Gadsden Loop

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DW1-05 Layer 1 B37030	Drywall	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum	None Detected
Layer 2 B37030	Sample Not Analyzed per COC						
Layer 3 B37030	Sample Not Analyzed per COC						
CT1-01 B37031	Ceiling Tile	Heterogeneous Cream,Brown Fibrous Loosely Bound	95%	Cellulose	5%	Paint	None Detected
CT1-02 B37032	Ceiling Tile	Heterogeneous Cream,Brown Fibrous Loosely Bound	95%	Cellulose	5%	Paint	None Detected
CT1-03 B37033	Ceiling Tile	Heterogeneous Cream,Brown Fibrous Loosely Bound	95%	Cellulose	5%	Paint	None Detected
WG-01 B37034	Window Glaze	Heterogeneous White,Cream Fibrous Bound	2%	Talc	3% 95%	Paint Binder	None Detected
WG-02 B37035	Window Glaze	Heterogeneous White,Cream Fibrous Bound	2%	Talc	3% 95%	Paint Binder	None Detected
WG-03 B37036	Sample Submitted for TEM Analysis						

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: B192172
Date Received: 05-02-19
Date Analyzed: 05-09-19
Date Reported: 05-09-19

Project: 205 Gadsden Loop

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
R1-01	Shingle	Heterogeneous	25%	Fiberglass	10%	Gravel	None Detected
Layer 1		Gray,Black			60%	Tar	
B37037		Fibrous			5%	Silicates	
		Bound					
Layer 2	Tarpaper	Homogeneous	65%	Cellulose	35%	Tar	None Detected
B37037		Black					
		Fibrous					
		Bound					
R1-02	Shingle	Heterogeneous	25%	Fiberglass	10%	Gravel	None Detected
Layer 1		Gray,Black			60%	Tar	
B37038		Fibrous			5%	Silicates	
		Bound					
Layer 2	Tarpaper	Homogeneous	65%	Cellulose	35%	Tar	None Detected
B37038		Black					
		Fibrous					
		Bound					
R1-03	Sample Submitted for						
B37039	TEM Analysis						

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LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Shilpa Ladekar

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

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CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:	
ECEI Lab Code:	B192172 (20)
ECEI Lab I.D. Range:	B37020 - B37039

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: 205 Gadsden Loop
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN:

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	■
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS: Please analyze TEM following negative PLM.

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	5/2/2019 8:30	NA	5-2-19 10:00

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

Version: CCOC.07.18.1/2.LD

B192172

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: 205 Gadsden Loop	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
F1 (01-03)	Green Floor Tile		PLM [x]	TEM [x]
F2 (01-03)	Beige Sheet Floor		PLM [x]	TEM [x]
DW1 (01-05)	Drywall/Joint Compound/Texture		PLM [x]	TEM [ ]
CT1 (01-03)	Ceiling Tile		PLM [x]	TEM [ ]
WG (01-03)	Window Glaze		PLM [x]	TEM [x]
R1 (01-03)	Shingle/Tarpaper		PLM [x]	TEM [x]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
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			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]

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May 15, 2019

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: 205 Gadsden Loop
LAB CODE: T191696

Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on May 9, 2019. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield Method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

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ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: 205 Gadsden Loop

LAB CODE: T191696

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116

REPORT DATE: 05/15/19

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Project: 205 Gadsden Loop

Lab Code: T191696
Date Received: 05-09-19
Date Analyzed: 05-13-19
Date Reported: 05-15-19

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
F1-03 T99782	Floor Tile	0.62	28.1	70.3	1.6	None Detected
F1-03 T99783	Mastic	0.106	90.6	8.5	.9	None Detected
F2-03 T99784	Sheet Floor	0.403	62.8	37	.2	None Detected
F2-03 T99785	Mastic	0.306	33.3	50.3	16.4	None Detected
WG-03 T99786	Window Glaze	0.525	10.3	84.2	5.5	None Detected
R1-03 T99787	Shingle	0.584	25.7	1.2	73.1	None Detected
R1-03 T99788	Tarpaper	0.487	97.1	1.4	1.5	None Detected

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LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. *Estimated measurement of uncertainty is available on request.* Samples were received in acceptable condition unless otherwise noted.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Brunilda Gjoka
Brunilda Gjoka

APPROVED BY:
Tianbao Bai, Ph.D., CIH
Laboratory Director

T191696 T99782-788 (1)

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CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:	
ECEI Lab Code:	B192172 (20)
ECEI Lab I.D. Range:	B37020 - B37039

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: 205 Gadsden Loop
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN:

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	■
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS: Please analyze TEM following negative PLM.

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	5/2/2019 8:30	NA	5-2-19 10:00
[signature]	05/09/19 9:40 am		

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

eurofins | CEI

SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: 205 Gadsden Loop	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
F1 (01-03)	Green Floor Tile		PLM ■	TEM ■
F2 (01-03)	Beige Sheet Floor		PLM ■	TEM ■
DW1 (01-05)	Drywall/Joint Compound/Texture		PLM ■	TEM □
CT1 (01-03)	Ceiling Tile		PLM ■	TEM □
WG (01-03)	Window Glaze		PLM ■	TEM ■
R1 (01-03)	Shingle/Tarpaper		PLM ■	TEM ■
			PLM □	TEM □
			PLM □	TEM □
			PLM □	TEM □
			PLM □	TEM □
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APPENDIX 4

License

[redacted]

SCDHEC ISSUED

Asbestos ID Card

Dawn Schoolcraft

		Expiration Date:
AIRSAMPLER	AS-00418	06/15/19
CONSULTMP	MP-00245	06/13/19
CONSULTBI	BI-00738	06/13/19
CONSULTPD	PD-00157	06/14/19

ASBESTOS ABATEMENT PLAN

205 GADSDEN LOOP
Walterboro, South Carolina
Asbestos Inspections, LLC Project # 2019-01-137
Performed in general accordance with SCDHEC Asbestos Regulation 61.86.1

Assessment Completed by:

Asbestos Inspections, LLC
4686 Pee Dee Highway
Conway, South Carolina 29527
(843) 995-5197

Dawn Schoolcraft
SCDHEC Asbestos Designer #PD-00157

Plan Completed For:

Capital Projects & Purchasing Department
Ms. Kaye Syfrett
113 Mable T. Willis Boulevard
Walterboro, South Carolina 29488

Report Prepared On – May 22, 2019

May 22, 2019

Capital Projects & Purchasing Department
Ms. Kaye Syfrett
113 Mable T. Willis Boulevard
Walterboro, South Carolina 29488

Subject: Asbestos Abatement Plan
205 Gadsden Loop
Walterboro, South Carolina
Asbestos Inspections, LLC Project # 2019-01-137

Dear Ms. Syfrett:

Asbestos Inspections, LLC has completed an Asbestos Abatement Design for the residential structure located at 205 Gadsden Loop, in Walterboro, South Carolina. The plan was prepared by a South Carolina Department of Health and Environmental Control (SCDHEC) abatement designer and meets the SCDHEC Asbestos Regulation 61-86.1.

I appreciate this opportunity to provide my services. Should you have any questions concerning this report, please contact me at (843) 995-5197.

Sincerely,

Dawn Schoolcraft

Dawn Schoolcraft
SCDHEC Asbestos Designer #PD-00157
Expiration Date – 6/14/19

Table of Contents

1. INTRODUCTION/GENERAL DESCRIPTION

The work is to consist of the abatement of asbestos containing materials identified by Asbestos Inspections, LLC for the residential structure located at 205 Gadsden Loop, in Walterboro, South Carolina. The following plan outlines work practices required by South Carolina Department of Health and Environmental Control (SCDHEC) Asbestos Regulation 61-86.1.

The vacant structure is approximately 1,269 square-feet home, constructed on a crawlspace foundation, with a pitched asphalt shingle roof. The exterior consists of a brick veneer with wood windows with identified window glazing. The interior has sustained significant fire damage. The interior consists of drywall ceilings, texture ceiling, wood walls, select drywall walls, floor tile, and vinyl sheet floor.

2. SCOPE OF WORK

Based on the findings identified by Asbestos Inspections, LLC outlined in the Asbestos Inspection Report dated May 16, 2019, the following building materials were identified to contain asbestos:

- DW1 – Cream joint compound on associated white drywall ceilings throughout to include drywall walls in bathroom and utility closet – Approximately 1,696 sf total (includes ceilings and select walls).

Due to the major fire damage, typical asbestos abatement will not be feasible. A variance should be requested to remove the entire structure as asbestos containing. A document obtained from the Colleton County Planning & Development Department has been attached stating that the structure is unsafe for entry. Additionally, we have prepared the variance request which is attached to this report. A copy of this design, along with the County document and variance request prepared by us, should be submitted to SCDHEC along with necessary permits to obtain the variance prior to any demolition and/or abatement activities. Additionally, area air monitoring will be required during these abatement activities.

It is my understanding that you will contract an Asbestos Abatement Contractor to perform the abatement and as required by governing regulations, are licensed asbestos abatement contractors for South Carolina.

2.1 Contractor Information

The scope of work includes the removal and disposal of the above identified asbestos containing material, as identified by Asbestos Inspections, LLC. The following is required as well as other requirements specified elsewhere in this document.

- The Contractor will be responsible for filing proper notification to SCDHEC and must have a current SCDHEC Asbestos Abatement Contractor's License.

- Should power and water not be readily available at the project site, the Contractor must supply all necessary utility services (electrical, water, etc.) for proper completion of the project. The Contractor shall coordinate the location and availability of utilities through the Owner. The Contractor shall ensure that all electrical cords are connected to Ground Fault Circuit Interrupter (GFCI) devices. Additionally, hoses and cords not suspended shall be taped to the floor utilizing caution tape in high traffic areas.

- All workers performing work at this site must be licensed by SCDHEC with an appropriate asbestos credential. There must also be a licensed asbestos abatement "supervisor" on the job site at all work hours throughout the course of asbestos abatement related work activities.

- If hazardous materials, such as chemicals, or other hazardous materials are discovered during the course of the work other than asbestos debris, the Contractor shall cease work in affected area and immediately assess the area. Take appropriate actions to clean and properly dispose of identified waste.

- The Contractor shall assume full responsibility and liability for the compliance with all applicable federal, state and local regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site. It is the abatement Contractor's responsibility to fulfill all Occupational Safety and Health Administration (OSHA) requirements under CFR 1926.1101 and all other safety requirements that may be required by the work site. The Contractor shall hold the Owner, Architect, and Engineer/Air Monitoring Firm harmless for failure to comply with any applicable work, hauling, disposal, safety, health or other regulation on the part of himself, his employees, or his subcontractors.

- Contractor must furnish all labor, material, supplies, insurance, tools, equipment, and notifications in accordance with Environmental Protection Agency (EPA), OSHA, State, and all other applicable agencies to complete removal of asbestos containing materials from the structures. It is the Contractors' responsibility to be aware of and obtain all permits necessary to complete the scope of work.

- During abatement activities, the Contractor shall take appropriate continuous measures, as necessary, to protect the public from the potential hazard of exposure to airborne asbestos.

- The Contractor shall keep the premises and building free from accumulations of waste materials caused by the Contractor's employees or employees of the subcontractor.

2.2 Submittals

The Abatement Contractor shall secure the necessary permits and certifications for the work in conjunction with asbestos removal, hauling and disposal. All permits and certifications shall be maintained onsite for review. Additionally, the abatement contractor shall submit permits and certifications to the Owner for recordkeeping. Final payment will be held until all submittals are received by the Owner.

- Notification: Notify the Owner's Representative, and SCDHEC Asbestos Section 10 working days prior to the start of asbestos work. Obtain and post the asbestos removal permit onsite. The Contractor shall notify SCDHEC by telephone and follow up in writing as soon as possible, but not later than, the following working day when a project has been canceled. Notification is also required for any changes in work schedule. Submit notification and permit copies to the Owner.

- Hazard Communication Program: The Contractor will submit evidence, if requested, of a written Hazard Communication Program as required by 29 CFR 1910.1200.

- Respirator Program: Establish and implement a respirator program as required by ANSI Z88.2, 29 CFR 1910.134, and 29 CFR 1926.1101.

- Training: Submit to the Owner documentation that the required EPA, OSHA and State training has been conducted.

- Logs: Copy of daily sign in/out log for each regulated asbestos abatement area to include the date, names, and times of each person entering and exiting the regulated area.

- Landfill Receipts: Submit to the Owner all waste manifests from the landfill to include detailed delivery tickets, prepared signed, and dated by an agent of the landfill, certifying the amount of asbestos materials delivered to the landfill.

2.3 Daily Reports

The Contractor shall maintain daily logs and reports of job-site activities and personnel exposure monitoring at the site and shall provide copies to the Owner for review if requested.

- Reporting Unusual Events: When an event of unusual and significant nature occurs at site (examples: failure of pressure differential system, rupture of temporary enclosures, equipment or power failure, high airborne fiber reading), prepare and submit a special report listing chain of events, persons participating, response by Contractor's personnel, evaluation of results or effects, and similar pertinent information.

- Accident Reporting: Notify Consultant verbally if any accident or other medical emergency occurs requiring treatment and/or removal of a worker from the work site.

3. PRODUCTS

3.1 Materials

Encapsulant: Product shall be rated as acceptable for use intended when field tested in accordance with ASTM Proposed Specification P-189 "Specification for Encapsulants for Friable Asbestos Containing Building Materials". Use only materials that have a flame spread index of 25 or less when dry, when tested in accordance with ASTM E-84.

Impermeable Waste-Disposal Containers: Suitable to receive and retain any asbestos-containing or contaminated material until disposal at an approved site. The containers shall be labeled in accordance with OSHA Regulation 29 CFR 1910.1001 and 29 CFR 1926.1101. Containers must be both water-tight and air- tight.

Plastic Sheeting: Polyethylene plastic sheeting material typically 6-mil thickness for covering floors and walls, providing air locks, and sealing doors and windows; supply in appropriate widths to minimize seams.

Surfactant (Wetting Agent): 50% polyoxyethylene ester and 50% polyoxyethylene ether, or approved equal, shall be mixed with water to provide a concentration of 2 ml surfactant to 1 liters of water, or manufacturer's recommended concentration.

Tape: Glass fiber or other tape capable of sealing joints of adjacent sheets of plastic sheeting and for attachment of plastic sheets to finished or unfinished surfaces of dissimilar materials under both dry and wet conditions, including use of amended water.

Caution Signs, Tape, and Labels: Provide caution signs printed in English and Spanish at all entrances to the Regulated Area. Barrier tap must be used to establish the Regulated Area. Delineate the area with 3-inch wide polyethylene ribbon printed with the warning "CAUTION ASBESTOS REMOVAL". Provide caution labels printed in English. Affix labels to asbestos materials, scrap, waste, debris, sealed impermeable bags, asbestos waste drums, and other asbestos-contaminated products.

1. Caution Signs: 29 CFR 1910.145, paragraph (d)(4), vertical format, minimum 20 by 14 inches, with the legend:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD

AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING
ARE REQUIRED IN THIS AREA

2. Caution Labels: Provide label with sufficient print size to be clearly legible with bold print on a contrasting background, displaying the following legend:

DANGER CONTAINS ASBESTOS
FIBERS AVOID CREATING DUST
CANCER AND LUNG DISEASE
HAZARD

3.2 Equipment

The Contractor shall make available three complete sets of personal protective equipment daily, as required herein, for entry to and inspection of the asbestos control area by the Owner's Representative or other authorized personnel. The personal protective equipment furnished shall include disposable protective whole body covering with head covers, gloves, foot coverings, eye protection.

- Respirators: Select respirators approved by the National Institute for Occupational Safety and Health (NIOSH), Department of Health and Human Services, for use in atmospheres containing asbestos fibers. Respirator selection shall be in accordance with OSHA Regulation 29 CRF 1910.134. Workers shall wear properly fitted respirators to provide an effective seal. Respirators shall be used in the following circumstances:

    - Class I asbestos work.
    - Class II work where the ACM is not removed in a substantially intact state.
    - All Class II and III asbestos work where the employer does not produce a "negative exposure assessment".
    - During all Class III jobs where TSI or surfacing ACM or PACM is being disturbed.
    - During all Class IV work performed within the regulated areas where employees performing other work are required to wear respirators.
    - During all work where employees are exposed above the TWA (0.1 f/cc) or excursion limit (1.0 f/cc).

- Eye Protection: Furnish eye protection for personnel engaged in asbestos operations when not using a full face respirator.

- Protective Clothing: Provide disposable full-body coveralls with head covers, and require that they be worn by all workers in the Regulated Area. Secure sleeves at the wrists and secure foot coverings at the ankles with duct tape. Cloth or nylon undergarments may be worn under the disposable protective coveralls. Hoods, associated with disposable garments, shall be worn on the outside of the respirator.

- Boots: Provide work boots with non-skid soles, and where required by OSHA, for protection for all workers.

- Decontamination Systems: Provide a personnel 5-stage decontamination staging area and an equipment decontamination staging area as described herein. Personnel entry/exit procedures shall be located adjacent to the regulated area as described in 29 CFR 1926.1101. Wastewater shall be disposed of as asbestos waste or shall be filtered through a filter of at least 0.5 micron particle size collection capability before disposal into the sanitary sewer system. Handle and dispose of filters as asbestos contaminated waste. Soap, shampoo, disposable towels, etc., shall be provided by the Contractor.

- Tools and Exhaust Systems: Provide the local exhaust in accordance with ANSI Z9.2 and as specified herein. Filters on vacuums and exhaust equipment shall be absolute HEPA filters and UL 586 labeled. Replace filters as required to maintain the efficiency of the system.

4. EXECUTION

4.1 Construction of Decontamination Systems

A roaming decontamination unit should be utilized during demolition of the house. An adequate decontamination area consists of an arrangement of connected rooms/spaces and shall be placed adjacent to the work area. All persons shall pass through this decontamination area during entry to and exit from the work area for any purpose except in case of emergencies. The decontamination unit shall be built as required by SCDHEC Regulation 61-86.1. If the decontamination unit becomes contaminated or its integrity diminished through use, no employee shall use the unit until corrective steps are taken.

- The Contractor shall construct a worker/equipment decontamination enclosure consisting of at least a clean room, a shower room, and an equipment room, each separated by air locks as described below.

- All rooms shall be constructed of non-porous materials than can be easily cleaned and decontaminated.

- Provide GFCI protection for all electrical equipment.

- Provide temporary lighting inside the decontamination enclosure facility.

The Equipment Room shall have two airlocks, one adjacent to the abatement work area and one adjacent to the shower room. The room shall be of sufficient size so as to accommodate at least one worker to change clothes, and temporarily house any equipment which the contractor wishes to store when not in use. Within this room, workers shall completely disrobe with the exception of

respirators. The area shall have facilities for decontaminating material and equipment, and a container lined with 0.15 mm polyethylene bag for collection of disposable coveralls and foot coverings. All boots, shoes, etc. shall remain in the equipment room until the project is completed when they will be bagged and moved to the next asbestos removal project as contaminated equipment or disposed of as asbestos waste.

Shower Room: This is a separate room used for transit by cleanly dressed workers entering the job from the clean room or by workers showering after undressing in the equipment room. Under the shower, respirators shall be rinsed thoroughly then removed and cleaned. Used filters shall be placed in suitable plastic bags on the contaminated side of the shower, sealed, and labeled for disposal.

The shower stall shall have two open sides and be set up to allow a single pass through between the clean room and equipment room and be built with rigid sides and top. Shower water shall be filtered. No leakage of shower water to the outside of the shower is allowed. Shower drain water shall be filtered with a 5 micron filter. Any leakage to the outside is to be considered contaminated. This room shall be separated from the clean room and equipment room by an airlock using by poly barriers (Z flaps). The shower room shall provide hot and cold running water and soap and towels.

The shower stall shall consists of a leak tight shower enclosure unit with integrated drain pan fabricated from fiberglass or other durable waterproof material. Equip with hose bibs for hot and cold water. Arrange water shut off and drain pump operation controls so that a single individual can shower without assistance from either inside or outside of the abatement work area. Provide splash proof entrances. Provide back flow prevention device and vacuum breaker, where required. Connect drain to a reservoir, pump water from reservoir through filters to a drain. Mount filters inside shower stall in manner that allows for access for filters to be changed from inside the shower. Change filters daily or more often if necessary. Locate filters inside shower unit so that water lost during filter changes is caught by shower pan. Hot and cold water shall be available at a minimum of 3 gallons of water per minute per worker. There shall be 1 shower for every 10 workers. Hot and cold water shall be available and controlled within the shower. This assembly is to be setup as a permanent fixture for the duration of the project.

Filtered Waste Water Drainage: Provide cascaded disposable HEPA filter units on drain lines from showers or any other fluid source carrying ACM. Connect so that discharged water passes primary filter and output of primary (particles 20 microns and smaller) filter passes through secondary (particles 5 microns and smaller) filter. Filtered water shall be discharged into a sanitary sewer.

Clean Room: In this room the workers shall leave all street clothes and put on clean working clothes to include all personal protective equipment. Respiratory protection equipment shall be kept in this area. No asbestos contaminated items shall enter this room. Workers enter this room either from outside the structure dressed in street clothes or directly from the showers. This room shall be reasonably heated or cooled. This room shall be separated from the outside by poly barriers (Z flaps) or a door (lockable, if located outside the building).

4.2 Asbestos Work Area Preparation

Access to the Regulated Area shall be limited to persons authorized in accordance with OSHA and SCDHEC. Eating, drinking, smoking, and chewing of gum or tobacco shall not be permitted in the work area, equipment room, or shower area.

- A regulated area must be established. Post Warning signs and barrier tape in and around the work area as required by all applicable regulatory agencies, and restrict access to the work area to personnel approved by Contractor or Consultant.

- If applicable - The Contractor shall implement an electrical practice protocol that includes, but is not limited to, lockout and GFCI shutdown as described in OSHA Construction Standard 29 CFR 1926.417. All electrical powered equipment utilized during the project shall have ground-fault protection as described in OSHA Construction Standards. All equipment and wiring shall be in compliance with National Fire Protection Association Standard 70, and the National Electrical Code.

- A remote decontamination unit should be constructed as identified in section 4.1 of this report.

- No water may be left standing in the work area at the end of the work day.

- The Contractor shall set up the work areas, load-out areas and decontamination areas.

- The Contractor shall establish and mark emergency and fire exits from the work area. Emergency procedures shall have priority over established decontamination entry and exit procedures. Install portable fire extinguishers in compliance with National Fire Protection Association, Standard No. 10, portable extinguishers. A minimum of one (1) ABC dry chemical rated fire extinguisher shall be in the clean room plus one for every 3000 square feet in the work area.

4.3 Asbestos Removal

Prior to asbestos removal, the Contractors equipment and work area will be reviewed by the Contractor's Onsite Supervisor to ensure compliance with regulations. Needed corrections shall be made prior to resuming asbestos removal activities. The following applicable steps shall be taken:

- The debris piles and contaminated surface debris areas shall be sprayed with water prior to executing removal and during loading operations. The materials shall be kept sufficiently saturated to prevent emissions of airborne asbestos fibers. The materials shall be sufficiently saturated to meet the NESHAP requirements referenced in these specifications and to prevent emission of airborne asbestos fibers in excess of the exposure limits prescribed in the OSHA 29 CFR 1926.1101 Standard referenced in the specifications.

- The debris piles should be removed down to where no visible debris remains. *There should not be any visible emissions during abatement procedures*.

- All workers, to include the heavy equipment operators, must be properly licensed and shall wear all appropriate protective equipment as outlined in section 3.2 of this plan.

4.4 Clean Up

- All plastic sheeting, tape, cleaning material, clothing, and all other disposable material or items used in the work area shall be packed into sealable plastic bags (6-mil minimum). Each bag shall be individually sealed and placed in containers, at a minimum, a second bag, suitable for transport to the landfill.

- If needed - any waste materials generated are to be contained in one of the following: (1) Two 6-mil disposal bags, twist and fold over gooseneck style, and seal both bags with duct tape: (2) Two 6-mil disposal bags, using the same procedures as above, and a fiberboard or steel drum; (3) One 6-mil disposal bag using the same procedures as above, and a fiberboard or steel drum to be buried with the waste. The bags and/or containers shall be marked with the OSHA label prescribed by the OSHA 29 CFR 1926.1101 Standard referenced in these specifications. In addition to the OSHA labeling requirements, all containers shall be labeled with the name of the waste generator and the location at which the waste was generated. Dispose of as specified elsewhere.

- All excess water (except shower water) shall be either combined with removed material or other absorptive material and properly disposed of as per EPA regulations, or filtered, using a 5-micron final filter, and disposed of properly. Contractor shall not place water in storm drains, onto lawns, or into ditches, creeks, streams, rivers or other areas.

- The Contractor shall be responsible for any asbestos fiber contamination of adjoining areas and/or properties, which may occur as a result of the asbestos abatement activities.

4.5 Decontamination of Work Areas

After the completion of gross removal, decontaminate all equipment and machinery used for work.

- The work area shall be free of any debris or remnant materials left behind from the demolition.

- Equipment shall be cleaned and all contaminated materials removed. If the Owners representative finds that the work area has not been adequately decontaminated, cleaning.

4.6 Disposal of Asbestos Material and Contaminated Debris

- Due to the large amount of asbestos contaminated debris, heavy equipment shall be utilized to load vehicles.

- Due to the quantity of asbestos contaminated debris to include irregular shaped building materials and weight of the debris, open-top dump trucks will most likely be used to haul the material to an EPA approved landfill. However, open-top trucks are typically not acceptable for transport of asbestos containing materials. Therefore, a variance must be requested for use of the open-top trucks.

- All trucks used to haul the contaminated debris should be lined with one layer of 6-mil poly sheeting to include a flap to fold over the top of the debris to create a leak tight type bag.

- Entrances and exists to the site should be monitored for any debris that may leave the site. This includes any possible contaminated soil.

- The Contractor shall use the Waste Shipment Record for disposal records as per 40 CFR 61.150 and distribute a copy of all waste shipment records to the Owner after the completion of the project.

4.7 Air Monitoring

The air monitor firm performing air monitoring to meet SCDHEC Regulation 61-86.1 shall have a current South Carolina license for asbestos air monitoring. The Contractor is responsible for OSHA monitoring. The air monitoring firm shall also offer expertise to the designer and contractor, but is not directly responsible for the performance of the job. The air monitoring firm will not supervise, direct, control or have authority over or be responsible for Contractor or Subcontractors means, methods, techniques, sequences or procedures. The air monitoring firm will not issue any "stop-work" notifications to the Contractor or Subcontractors and is not in a position to direct or control the work of the Contractor or Subcontractor. The Contractor remains responsible for handling asbestos-containing materials and their health and safety programs in accordance with applicable local, state, and federal regulations.

Monitoring During Asbestos Work: Prior to abatement, background air sampling will be conducted in the general area of *the work area*. During abatement activities, area air monitoring will be conducted for a minimum of two and one-half hours for every four-hour shift at the following locations: downwind of the containment, areas where public may be present, and areas surrounding the work area. Additional samples may be collected at the discretion of the Air Monitor.

Analytical Methods: Background and daily air samples, during asbestos work, will be analyzed by Phase Contrast Microscopy (PCM) using the NIOSH 7400 Method. If monitoring outside the asbestos control area shows airborne concentrations have reached 0.01 fibers per cubic centimeter (f/cc) of air or background quantity whichever is greater, the Contractor shall stop work, correct the condition, and notify the Owner's Representative immediately.

Clearance Monitoring After Final Cleanup of Regulated Materials: F inal clearance air sampling will not be feasible due to the nature of the project. The Owners representative shall perform a visual observation of the work area to determine that the final clean-up is acceptable.

References

- U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA), including but not limited to:
    1. Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite: Final Rules Title 29, Part 1910, Section 1001 and Part 1926, Section 1101, of the Code of Federal Regulations.
    2. Respiratory Protection: Title 29, Part 1910, Section 134 and Title 29, Part 1926, Section 103 of the Code of Federal Regulations.
    3. Construction Industry: Title 29, Part 1926, of the Code of Federal Regulations.
    4. Access of Employee Exposure and Medical Records: Title 29, Part 1910, Section 20 and Title 29, Part 1926, Section 33 of the Code of Federal Regulations.
    5. Specifications for Accident Prevention Signs and Tags: Title 29, Part 1910, Section 145 of the Code of Federal Regulations.
    6. Personal Protective Equipment: Title 29, Part 1910, Section 132 and Title 29, Part 1926, Sections 95 through 107 of the Code of Federal Regulations.
    7. Hazard Communication: Title 29, Part 1910, Section 1200 and Title 29, Part 1926, Section 59 of the Code of Federal Regulations.
    8. Lead in Construction; Title 29, Part 1926, Section 62.

- U.S. Environmental Protection Agency (EPA) including but not limited to:
    1. Asbestos Abatement Project Rule: 40 CFR Part 763 Subpart G; as of July 1, 1991.
    2. Regulations for Asbestos: Title 40, Part 61, Subpart A of the Code of Federal Regulations.
    3. National Emissions Standard for Asbestos: Title 40, Part 61, Subpart M (Revised Subpart B); Code of Federal Regulations.
    4. Hazardous Wastes: Title 40, Part 260-265.

- American National Standards Institute (ANSI):
    1. ASTM D1331 - 1989: Surface and Interfacial Tension of Solution of Surface-Active Agents.
    2. American National Standard for Respiratory Protection - Respirator Use-Physical Qualifications for Personnel, Publication Z88.6-1984
    3. Practices for Respiratory Protection - Publication Z88.2-1992

- American Society for Testing and Materials (ASTM):
    1. ASTM D-1331 - 1989: Surface and Interfacial Tension of Solution of Surface Active Agents.

- South Carolina Dept. of Health and Environmental Control (SCDHEC)
    1. Regulation 61-86.1 Standards of Performance for Asbestos Projects.

Terminology

Airlock: A chamber which permits entrance and exit with minimum air movement between a contaminated area and an uncontaminated area

Air Pressure Monitoring: The process of measuring the air pressure differential between the containment barrier and the surrounding area using inches of water unit.

Amended Water: Water containing a wetting agent or surfactant.

Area Monitoring: Sampling of asbestos fiber concentrations within the asbestos control area and outside the asbestos control area which is representative of the airborne concentrations of asbestos fibers that may reach the breathing zone.

Asbestos: A group of naturally occurring minerals that separate into fibers. There are six asbestos minerals used commercially: chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite.

Asbestos Control Area: An area where asbestos removal operations are performed which is isolated by physical boundaries to prevent unauthorized entry of personnel and to prevent the spread of asbestos dust, fibers, or debris.

Asbestos-Containing Material (ACM): Any material containing more than 1% asbestos by volume of any type or mixture of types.

Asbestos Fibers: Asbestos fibers having a length to diameter ratio of at least 3:1 and is 5 micrometers long or longer, as analyzed by Phase Contrast Microscopy utilizing NIOSH Method 7400.

Asbestos Permissible Exposure Limit: An airborne concentration of asbestos in excess of 0.1 fibers per cubic centimeter of air as an 8-hour time weighted average as determined by Appendix A of 29 CFR 1926.1101.

Competent Person: One who is capable of identifying existing asbestos hazards in the work place and who has the authority to take prompt corrective measures to eliminate them.

Critical Barrier: Those portions of the containment barrier which represent the minimum structural components necessary to maintain the asbestos removal area in airtight isolation from the surrounding areas. Critical barriers (minimum 6-mil thickness, two layers polyethylene sheeting) shall be placed at floors, windows, ventilation louvers and other openings as necessary to achieve abatement work area isolation before putting up the double-layer plastic sheeting containment

enclosure within which abatement work is performed. If a temporary plastic sheeting/stud wall must be erected, it shall be treated as a critical barrier. The double-layer plastic sheeting containment enclosure shall then be erected on that wall. Wrappings on lights, control boxes, etc., do not constitute part of the critical barrier.

Equipment Decontamination and Waste Load Out System**:** A decontamination area for waste materials and equipment, typically consisting of a designated area of work area for HEPA vacuuming and wet wiping.

Friable Asbestos Material: Material that contains more than one percent asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763 Section 1, Polarized Light Microscopy, that when dry can be crumbled, pulverized, or reduced to powder by hand pressure.

GFCI (Ground Fault Circuit Interrupter): A type of ground fault protection in areas where personnel are at high risk of receiving electrical shocks (for example, in damp locations); makes use of a device designed to trip at a ground current in the milliampere range, i.e., very much below currents that are normally harmful.

Gooseneck: Process for sealing the outer bag by twisting the opening of the bag, folding twisted portion of bag over, and creating a loop. Adequately secure the opening of the bag to the base of the twist, using duct tape.

HEPA Vacuum Equipment: High efficiency particulate air (HEPA) filtered vacuuming equipment capable of collecting and retaining asbestos fibers.
HEPA Filter: A high efficiency particulate air filter that will capture particles with an aerodynamic diameter of 0.3 micrometers with a minimum efficiency of 99.97 percent.

Impermeable Waste-Disposal Containers: Suitable to receive and retain any asbestos-containing or contaminated material until disposal at an approved site. The containers shall be labeled in accordance with OSHA Regulation 29 CFR 1910.1001 and 29 CFR 1926.1101. Containers must be both water-tight and air- tight.

Lockdown: Lockdown is the procedure of applying a protective coating or sealant to a surface from which asbestos-containing material has been removed. Its primary function is to control and minimize airborne asbestos fiber generation that might result from any asbestos-containing residue on the substrate.

Negative Pressure System: A system in which static pressure in an enclosed control area is lower than that of the environment outside the control area, as specified herein.

NIOSH: National Institute for Occupation Safety and Health.

Non-friable Asbestos Material**:** Material that contains more than one percent asbestos as determined by the method specified in Appendix A, Subpart F, 40 CFR Part 763 Section 1, in which the fibers have been locked in by a bonding agent, coating, binder, or other material so that the asbestos is well bound and may not release fibers in excess of the asbestos permissible exposure limit during any appropriate use, handling, storing, transporting, or processing. Non-friable asbestos material may be hazardous and rendered friable during removal and disposal procedures. Cutting, crushing, grinding and sanding will render non-friable materials into a friable state.

Personnel Decontamination Unit System**:** A decontamination unit consisting of a clean room, shower room, and equipment room separated by airlocks, thus making a 5-stage system. This unit is attached to the regulated area.

Personal Monitoring: Sampling of asbestos fiber concentrations within the breathing zone of an employee to determine the 8-hour time weighted average in accordance with Appendix A of 29 CFR 1926.1101. The samples shall be representative of the employee's work tasks. The breathing zone shall be considered an area within 12 inches of the nose or mouth of an employee.

Regulated Area: An area established to demarcate areas where airborne concentrations of asbestos, can be expected to exceed the permissible exposure limits. The regulated area may take the form of an enclosed control area or an area demarcated to prohibit occupants from the vicinity of the area and prevent potential exposure to asbestos.

Surfactant (Wetting Agent): A chemical wetting agent added to water to improve penetration. The surfactant shall be a 50/50 mixture of polyoxyethylene ether and polyoxyethylene ester, or equivalent, mixed in a proportion of one fluid ounce to 5 gallons of water or as specified by the manufacturer. An equivalent surfactant shall be understood to mean a material with a surface tension of 29 dynes/cm as tested in accordance with ASTM D 1331.

Time Weighted Average (TWA): The TWA is an 8-hour time weighted average of airborne concentration of fibers (5 micrometers or longer) per cubic centimeter of air which represents the employee's 8-hour workday exposure as determined by Appendix A of 29 CFR 1926.1101.

[redacted]

SCDHEC ISSUED

Asbestos ID Card

Dawn Schoolcraft

		Expiration Date:
AIRSAMPLER	AS-00418	06/15/19
CONSULTMP	MP-00245	06/13/19
CONSULTBI	BI-00738	06/13/19
CONSULTPD	PD-00157	06/14/19

COLLETON COUNTY
FOUNDED 1682
Planning & Development Department
31 Klein Street - Walterboro, South Carolina 29488 – (843)549-1709

May 20, 2019

Lowcountry Council of Governments
Attn: Kimberly Mullinax - Community & Economic Development Specialist
PO Box 98 / 634 Campground Road
Yemassee, SC 29945

RE: Verification of Unsafe and Condemned Building located at 205 Gadsden Loop, Colleton County, SC

Dear Ms. Mullinax:

This letter serves as notification of the unsafe building located at the above stated address.

Due to a previous fire in this structure, which burnt out the supporting structures for the roof and walls, and numerous years of property maintenance neglect since the fire, this building has been condemned by the Chief Building Official for Colleton County, where it has been determined that this structure is unsafe to enter except by qualified personnel in its current condition and in its extensive state of dilapidation and disrepair.

The only safe method of dealing with this structure is a complete demolition of what remains of this gutted-out building and removal of all of the ensuing demolition debris by a Licensed Contractor with experience in demolition of residential structures which may include asbestos and/or other elements that may be harmful to humans and/or the environment.

Should you have any questions or require additional information, please feel free to contact me at your convenience through my contact information provided below.

Sincerely,

Zachary P. Montgomery
Planning & Development Director
zmontgomery@colletoncounty.org
(843) 549-1709 Ext. 1250

Cc: file

Asbestos Inspections, LLC

May 22, 2019

SCDHEC
Asbestos Section
Mr. Ryan Collins
2600 Bull Street
Columbia, South Carolina 29201

Subject: Asbestos Abatement Variance
205 Gadsden Loop
Walterboro, South Carolina
Asbestos Inspections, LLC Project # 2019-01-137

Dear Mr. Collins:

The above referenced facility is scheduled for abatement and then complete demolition. Based on our asbestos inspection dated May 16, 2019 the following ACMs were identified:

- DW1 – Cream joint compound on associated white drywall ceilings throughout to include drywall walls in bathroom and utility closet – Approximately 1,696 sf total (includes ceilings and select walls).

Due to significant fire damage, removing the above identified ACMs via typical methods will be unsafe. At this time, we are requesting a variance for removal of the entire structure as asbestos contaminated. Attached is documentation from County officials deeming the residence as structurally unsafe for entrance. Wet methods will be used during abatement/demolition activities and all workers, to include the heavy equipment operator, will be properly licensed asbestos workers and/or supervisors.

We are also requesting a variance for use of open top trucks for transport of the wall materials only. The truck floors and walls will be lined with polyethylene sheeting and once the truck is loaded the top will be lined with sheeting to create a "burrito" type wrap.

Should you have any questions concerning this information, please contact me at (843) 397-7008 or (843) 995-5197.

Sincerely,

Dawn Schoolcraft

Dawn Schoolcraft
SCDHEC Asbestos Designer #PD-00157

ASBESTOS INSPECTION REPORT
178 JARED STREET
Walterboro, South Carolina
Asbestos Inspections, LLC Project # 2019-01-137
Performed in general accordance with SCDHEC regulation 61-86.1
along with OSHA regulation 29 CFR 1926

Assessment Completed by:

Asbestos Inspections, LLC
4686 Pee Dee Highway
Conway, South Carolina 29527
(843) 397-7008

Dawn Schoolcraft
SCDHEC ID# BI-00738

Assessment Completed For:

Capital Projects & Purchasing Department
Ms. Kaye Syfrett
113 Mable T. Willis Boulevard
Walterboro, South Carolina 29488

Inspection Completed On – May 1, 2019
Report Prepared On – May 16, 2019

TABLE OF CONTENTS

1.0 SIGNATURE PAGE

This report has been performed at the request of Ms. Kaye Syfrett with Colleton County. The inspection was conducted by Mrs. Dawn Schoolcraft with Asbestos Inspections, LLC on May 1, 2019. The report was prepared and reviewed by the undersigned inspector.

Inspection Performed by:	SCDEHC #	Expires	Signature	Date
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/1/19
Report Prepared by:				
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/16/19
Report Reviewed by:				
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/16/19

Asbestos Inspections, LLC

2.0 COVER LETTER

May 16, 2019

Capital Projects & Purchasing Department
Ms. Kaye Syfrett
113 Mable T. Willis Boulevard
Walterboro, South Carolina 29488

Subject: Asbestos Inspection Report
178 Jared Street
Walterboro, South Carolina
Asbestos Inspections, LLC Project # 2019-01-137

Dear Ms. Syfrett,

Asbestos Inspections, LLC has completed an Asbestos Inspection for the vacant residence located at 178 Jared Street, in Walterboro, South Carolina. The inspection was completed on May 1, 2019 by a South Carolina Department of Health and Environmental Control (SCDHEC) building inspector.

The following report summarizes the project background, assessment procedures, results, and conclusions. The results presented in this report are indicative of conditions during the time of the inspection and of the specific areas outlined. The information provided in this report should not be used as a bidding document and field conditions should be verified. Should suspect building materials, not included within this report, be identified or impacted during the destructive activities, bulk samples must be collected and analyzed for asbestos content.

I appreciate this opportunity to provide my services. Should you have any questions concerning this report, please contact me at (843) 397-7008 or (843) 995-5197.

Sincerely,

Dawn Schoolcraft

Dawn Schoolcraft
Asbestos Building Inspector (SCDHEC #BI-00738)

3.0 EXECUTIVE SUMMARY

3.1 Scope and Purpose

Ms. Kaye Syfrett, with Colleton County, requested this inspection for the vacant residence located at 178 Jared Street, in Walterboro, South Carolina. It is our understanding that the structure is scheduled for demolition. The purpose of this assessment is to identify asbestos containing materials (ACMs) prior to the scheduled demolition.

The inspection was completed in accordance with procedures specified in SCDHEC regulation 61.86.1 along with Occupational Safety and Health Administration (OSHA) regulation 29 Code of the Federal Regulations (CFR) 1926. The representative bulk samples collected were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory which is administered by the National Institute of Standards and Technology (NIST). This report has been prepared in accordance with Environmental Protection Agency (EPA) 40 CFR, 763.85(a)(4).

3.2 Facility Conditions

The vacant structure is an approximately 1,200 square-feet home, constructed on a crawlspace foundation, with a sheet metal roof. The exterior consists of CMU block walls and metal framed windows. The interior consists of drywall walls, texture ceiling, and vinyl sheet flooring. No flooring was identified in the kitchen area during our inspection, as there is no floor in the kitchen. It appears that renovations began to the walls inside the home, but were stopped and not completed.

Suspect materials sampled and analyzed during this inspection drywall ceiling with associated joint compound, texture ceiling, and vinyl sheet flooring.

The possibility exists that suspect materials were undetected in inaccessible areas to enter, including but not limited to: locked rooms, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during renovation, bulk samples should be collected and analyzed for asbestos content.

3.3 Findings and Conclusions

The EPA and SCDHEC define materials as asbestos containing if an asbestos content >1% is identified in a representative sample. **No asbestos >1% was detected** in the following materials sampled and analyzed:

- TC1 – White textured ceiling throughout most of home excluding the front right bedroom – Approximately 1,080 sf.

The above identified ACM should be removed by a properly licensed asbestos abatement contractor. Asbestos air monitoring will be required during abatement. A copy of this report along with an abatement and demolition application should be submitted to SCDHEC at least 10 working days prior to any abatement and/or demolition

activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The results presented in this report are indicative of conditions during the time of the assessment. The information provided in this report should not be used as a bidding document and field conditions and quantities should be verified.

4.0 ASBESTOS ASSESSMENT DATA

The assessment was performed by observing and sampling suspect ACMs in the structure prior to the scheduled demolition. Representative bulk samples were then extracted, recorded on a chain of custody, and submitted to CEI Labs of Cary, North Carolina for laboratory analysis. The samples were tested via Polarized Light Microscopy (PLM); however, SCDHEC requires a Transmission Electron Microscopy (TEM) test be performed for all non-friable organically bound material found negative via PLM.

The following table exhibits the suspect material sampled, location, quantity of material sampled, condition of material, potential for future disturbance, laboratory test method, and laboratory result for each sample collected.

Sample #	Material	Location	Cat./# Samples	Qty.	Asbestos Type	%	Cond.	Pot. Dist.	Haz. Assess.	Test Method
F1-01	Beige Sheet Floor	Throughout Except Bath	M/3	1,150 sf	ND	0	G/NF	PSD	3	PLM
	Tan Mastic				ND	0	G/NF	PSD	3	PLM
F1-02	Beige Sheet Floor				ND	0	G/NF	PSD	3	PLM
	Tan Mastic				ND	0	G/NF	PSD	3	PLM
F1-03	Beige Sheet Floor				ND	0	G/NF	PSD	3	TEM
	Tan Mastic				ND	0	G/NF	PSD	3	TEM
F2-01	White, Black Sheet Floor	Bath	M/3	50 sf	ND	0	G/NF	PSD	3	PLM
F2-02	White, Black Sheet Floor				ND	0	G/NF	PSD	3	PLM
F2-03	White, Black Sheet Floor				ND	0	G/NF	PSD	3	TEM
DW1-01	White Drywall	Throughout	S/5	2,700 sf	ND	0	G/F	PSD	3	PLM
	White Joint Compound				ND	0	G/F	PSD	3	PLM
DW1-02	White Drywall				ND	0	G/F	PSD	3	PLM
	White Joint Compound				ND	0	G/F	PSD	3	PLM
DW1-03	White Drywall				ND	0	G/F	PSD	3	PLM
	White Joint Compound				ND	0	G/F	PSD	3	PLM
DW1-04	White Drywall				ND	0	G/F	PSD	3	PLM
	White Joint Compound				ND	0	G/F	PSD	3	PLM
DW1-05	White Drywall				ND	0	G/F	PSD	3	PLM
	White Joint Compound				ND	0	G/F	PSD	3	PLM
TC1-01	**White Textured Ceiling**	**Ceilings Throughout – Excluding Front Right Bedroom**	**S/5**	**1,080 sf**	**Chrysotile**	**2**	**G/F**	**PSD**	**3**	**PLM**
TC1-02	**White Textured Ceiling**				-	-	-	-	-	-
TC1-03	**White Textured Ceiling**				-	-	-	-	-	-

Sample #	Material	Location	Cat./# Samples	Qty.	Asbestos Type	%	Cond.	Pot. Dist.	Haz. Assess.	Test Method
TC1-04	White Textured Ceiling				-	-	-	-	-	-
TC1-05	White Textured Ceiling				-	-	-	-	-	-

Abbreviations and Hazard Assessment Key

Category and Sampling #'s

Miscellaneous (M) = 3 samples required
Surfacing (S) = <1,000 sf = 3 samples required; 1,000-5,000 sf = 5 samples; >5,000 sf = 7 samples
Thermal System Insulation (TSI) = < 6 sf = 1 sample required; > 6 sf = 3 samples

Present Condition

F = Friable G = Good (very localized limited damage)
NF = Non-friable D = Damaged (Damage of less than 10% distributed and less than 25% localized)
SD = Significantly Damaged (Damage equal to or greater than 10% distributed/25% localized)

Potential for Future Disturbance

LPD = Low potential for disturbance (Contact, vibration, and air erosion all of low concern)
PD = Potential for damage (Contact, vibration, or air erosion of moderate concern)
PSD = Potential for significant damage (Contact, vibration, or air erosion of high concern)

Hazard Assessment – *Present Condition Versus Potential for Future Disturbance*

Good	*Damaged*	*Significantly Damaged* = 7
LPD = 1	LPD = 4	
PD = 2	PD = 5	
PSD = 3	PSD = 6	

Test Method

PLM = Polarized Light Microscopy
TEM = Transmission Electron Microscopy (required by SCDHEC for confirmation of negative results for non-friable organically bound materials)
-- = Sample not analyzed due to positive PLM results.

Misc.

sf = Square Feet lf = Linear Feet
ND = None Detected
EPA, SCDHEC, and OSHA define a material as asbestos containing if an asbestos content greater than 1% is detected.

Please understand that quantities are estimated and should not be used for bidding purposes. Field conditions should be verified prior to bidding.

Site location and sample locations are identified as Figures 1 thru 2 of Appendix 1 of this report, photographs are in Appendix 2, laboratory results are in Appendix 3, and license is in Appendix 4.

5.0 CONCLUSIONS

The EPA and SCDHEC define materials as asbestos containing if an asbestos content >1% is detected in a representative sample. **Asbestos >1 % was detected** in the following materials sampled and analyzed for the vacant residence located at 178 Jared Street, in Walterboro, South Carolina:

- TC1 – White textured ceiling throughout most of home excluding the front right bedroom – Approximately 1,080 sf.

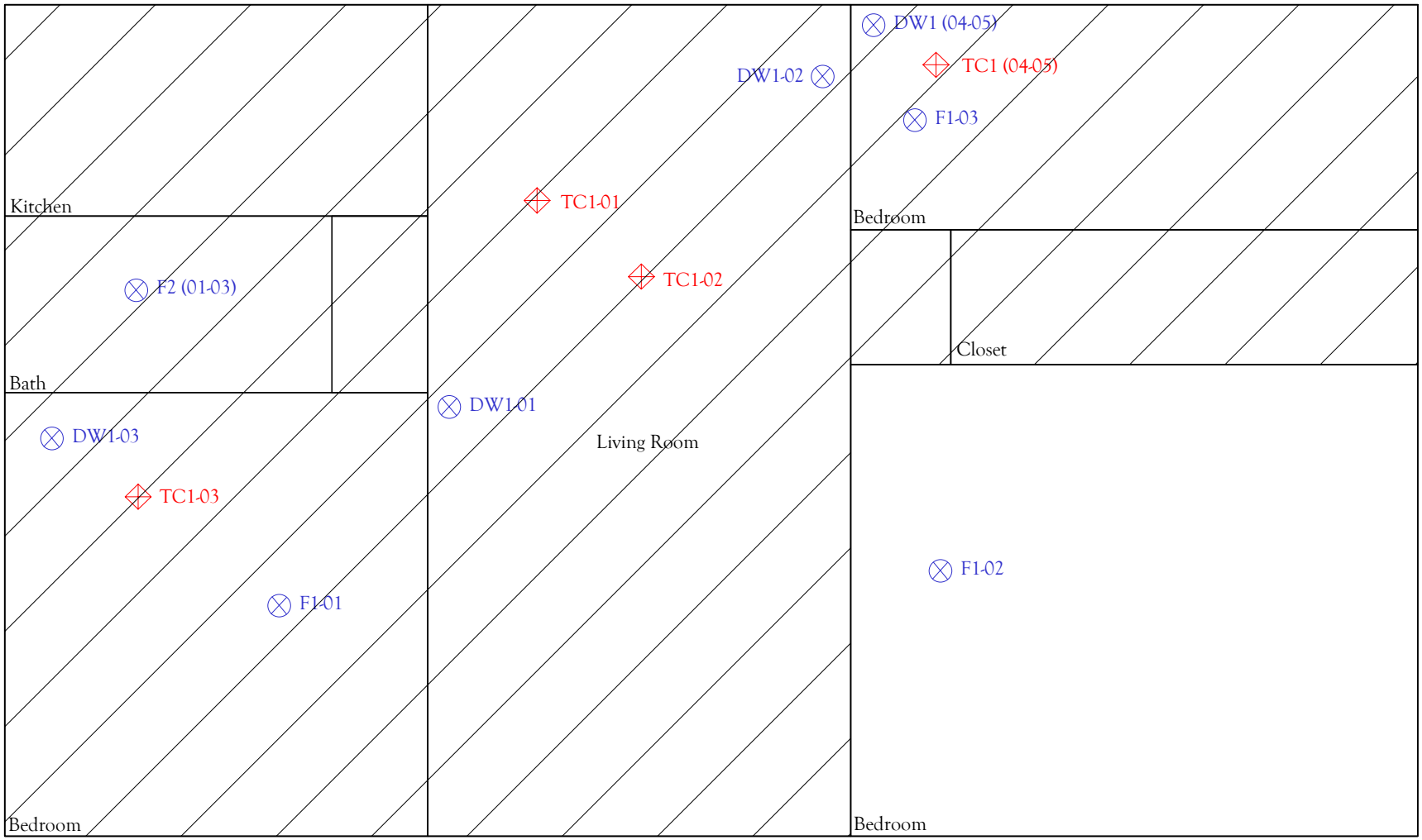
The above identified ACM should be removed by a properly licensed asbestos abatement contractor. Asbestos air monitoring will be required during abatement. A copy of this report along with an abatement and demolition application should be submitted to SCDHEC at least 10 working days prior to any abatement and/or demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, locked rooms, behind exterior veneer, pipe chases, below the wood roof decking, or wall voids. If additional suspect materials not included in this report are discovered during demolition, bulk samples should be collected and analyzed for asbestos content.

APPENDIX 1

Site Location Plan and Sample Location Plan (Figures 1 thru 2)

Asbestos Inspections, LLC	Site Location Plan 178 Jared Street Walterboro, SC Project # - 2019-01-137	Scale: Not to Scale Reviewed By: DS Date: 5/16/2019 Source: N/A	**Figure 1**



LEGEND

- Sample Location
- Asbestos Containing Sample Location
- Asbestos containing texture ceiling - Approx. 1,080 sf

Asbestos Inspections, LLC

Sample Location Plan
178 Jared Street
Walterboro, SC
Project # - 2019-01-137

Scale: Not to Scale
Reviewed By: DS
Date: 5/16/2019
Source: N/A

Figure 2

APPENDIX 2

Photographs

ASBESTOS INSPECTION REPORT
178 JARED STREET
Project Number – 2019-01-137
May 16, 2019

Asbestos Testing Notification

Block Home

Doorway

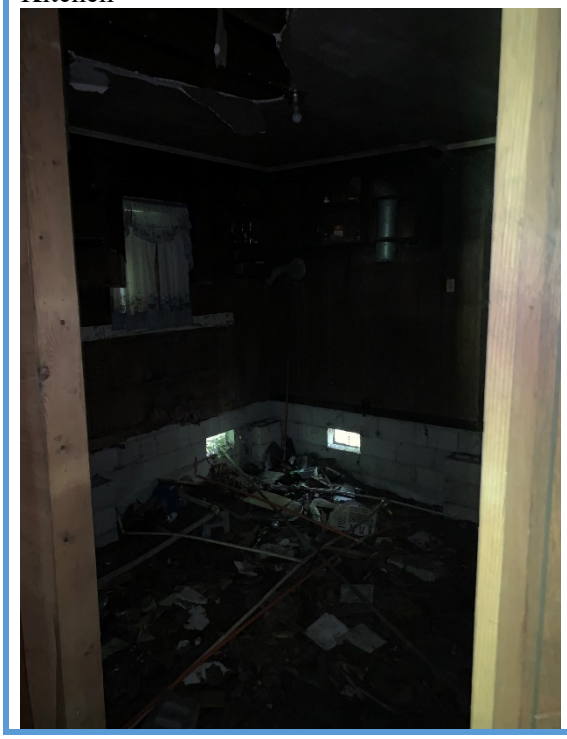
Exterior of Home

ASBESTOS INSPECTION REPORT
178 JARED STREET
Project Number – 2019-01-137
May 16, 2019

Bedroom

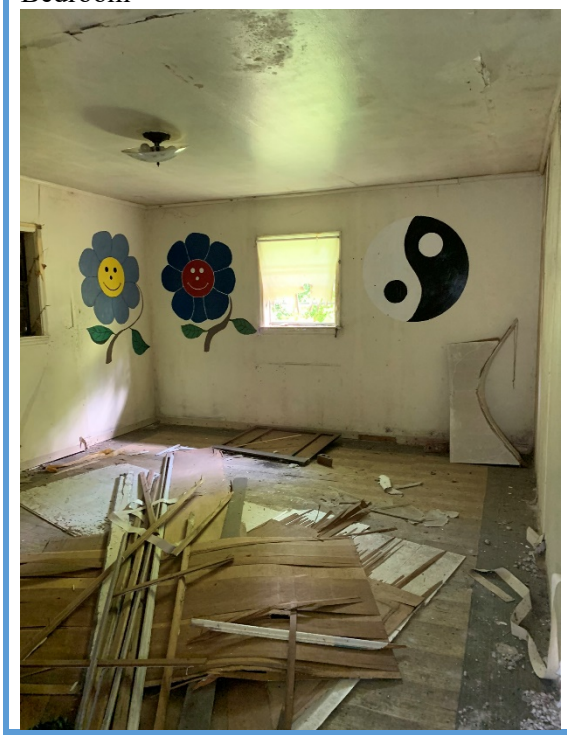
Dining

Kitchen



Bathroom

Bedroom



Bedroom

APPENDIX 3

Asbestos Laboratory Results

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May 9, 2019

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: 178 Jared Road
CEI LAB CODE: A199489

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on May 2, 2019. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

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ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: 178 Jared Road

LAB CODE: A199489

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/09/19

TOTAL SAMPLES ANALYZED: 10

SAMPLES >1% ASBESTOS: 1

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 178 Jared Road **LAB CODE:** A199489

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
F1 01		A132936A	Beige	Sheet Floor	None Detected
		A132936B	Tan	Mastic	None Detected
F1 02		A132937A	Beige	Sheet Floor	None Detected
		A132937B	Tan	Mastic	None Detected
F1 03		A132938A		Sample Submitted for TEM Analysis	
		A132938B		Sample Submitted for TEM Analysis	
F2 01		A132939	White,Black	Sheet Floor	None Detected
F2 02		A132940	White,Black	Sheet Floor	None Detected
F2 03		A132941		Sample Submitted for TEM Analysis	
DW1 01	Layer 1	A132942	White	Drywall	None Detected
	Layer 2	A132942	White	Joint Compound	None Detected
DW1 02	Layer 1	A132943	White	Drywall	None Detected
	Layer 2	A132943	White	Joint Compound	None Detected
DW1 03	Layer 1	A132944	White	Drywall	None Detected
	Layer 2	A132944	White	Joint Compound	None Detected
DW1 04	Layer 1	A132945	White	Drywall	None Detected
	Layer 2	A132945	White	Joint Compound	None Detected
DW1 05	Layer 1	A132946	White	Drywall	None Detected
	Layer 2	A132946	White	Joint Compound	None Detected
TC1 01		A132947	White	Textured Ceiling	Chrysotile 2%
TC1 02		A132948		Sample Not Analyzed per COC	
TC1 03		A132949		Sample Not Analyzed per COC	
TC1 04		A132950		Sample Not Analyzed per COC	
TC1 05		A132951		Sample Not Analyzed per COC	

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A199489
Date Received: 05-02-19
Date Analyzed: 05-09-19
Date Reported: 05-09-19

Project: 178 Jared Road

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
F1 01 A132936A	Sheet Floor	Heterogeneous Beige Fibrous Bound	<1%	Cellulose	100%	Vinyl	None Detected
A132936B	Mastic	Heterogeneous Tan Fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
F1 02 A132937A	Sheet Floor	Heterogeneous Beige Fibrous Bound	<1%	Cellulose	100%	Vinyl	None Detected
A132937B	Mastic	Heterogeneous Tan Fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
F1 03 A132938A	Sample Submitted for TEM Analysis						
A132938B	Sample Submitted for TEM Analysis						
F2 01 A132939	Sheet Floor	Heterogeneous White,Black Fibrous Bound	25%	Cellulose	75%	Vinyl	None Detected
F2 02 A132940	Sheet Floor	Heterogeneous White,Black Fibrous Bound	25%	Cellulose	75%	Vinyl	None Detected
F2 03 A132941	Sample Submitted for TEM Analysis						

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A199489
Date Received: 05-02-19
Date Analyzed: 05-09-19
Date Reported: 05-09-19

Project: 178 Jared Road

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DW1 01 Layer 1 A132942	Drywall	Heterogeneous White Fibrous Bound	25%	Cellulose	75%	Gypsum	None Detected
Layer 2 A132942	Joint Compound	Heterogeneous White Fibrous Bound	<1%	Cellulose	65% 35%	Silicates Calc Carb	None Detected
DW1 02 Layer 1 A132943	Drywall	Heterogeneous White Fibrous Bound	25%	Cellulose	75%	Gypsum	None Detected
Layer 2 A132943	Joint Compound	Heterogeneous White Fibrous Bound	<1%	Cellulose	65% 35%	Silicates Calc Carb	None Detected
DW1 03 Layer 1 A132944	Drywall	Heterogeneous White Fibrous Bound	25%	Cellulose	75%	Gypsum	None Detected
Layer 2 A132944	Joint Compound	Heterogeneous White Fibrous Bound	<1%	Cellulose	65% 35%	Silicates Calc Carb	None Detected
DW1 04 Layer 1 A132945	Drywall	Heterogeneous White Fibrous Bound	25%	Cellulose	75%	Gypsum	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A199489
Date Received: 05-02-19
Date Analyzed: 05-09-19
Date Reported: 05-09-19

Project: 178 Jared Road

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 2 A132945	Joint Compound	Heterogeneous White Fibrous Bound	<1%	Cellulose	65% 35%	Silicates Calc Carb	None Detected
DW1 05 Layer 1 A132946	Drywall	Heterogeneous White Fibrous Bound	25%	Cellulose	75%	Gypsum	None Detected
Layer 2 A132946	Joint Compound	Heterogeneous White Fibrous Bound	<1%	Cellulose	65% 35%	Silicates Calc Carb	None Detected
TC1 01 A132947	Textured Ceiling	Heterogeneous White Fibrous Bound	5%	Cellulose	3% 62% 28%	Paint Silicates Calc Carb	**2% Chrysotile**
TC1 02 A132948	Sample Not Analyzed per COC						
TC1 03 A132949	Sample Not Analyzed per COC						
TC1 04 A132950	Sample Not Analyzed per COC						
TC1 05 A132951	Sample Not Analyzed per COC						

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LEGEND:
Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Saithya Painkal

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

A199489
A132936-
A132951

16

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CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
ECEI Lab Code:
ECEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name:178 Jared Road
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN:

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	■
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS: Please analyze TEM following negative PLM.

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	5/2/2019 8:30	NR	5-2-19 10:00

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

A199459

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: 178 Jared Road	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
F1 (01-03)	Bamboo Pattern Sheet Floor		PLM ■	TEM ■
F2 (01-03)	White Black Checkered Sheet Floor		PLM ■	TEM ■
DW1 (01-05)	Drywall/Joint Compound		PLM ■	TEM ☐
TC1 (01-05)	Texture Ceiling		PLM ■	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
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			PLM ☐	TEM ☐
			PLM ☐	TEM ☐

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May 15, 2019

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: 178 Jared Road
LAB CODE: T191703

Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on May 9, 2019. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield Method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

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ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: 178 Jared Road

LAB CODE: T191703

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116

REPORT DATE: 05/15/19

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Project: 178 Jared Road

Lab Code: T191703
Date Received: 05-09-19
Date Analyzed: 05-13-19
Date Reported: 05-15-19

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
F1-03 T99826	Sheet Floor	0.876	56.2	26.7	17.1	**None Detected**
F1-03 T99827	Mastic	0.08	53.8	15	31.2	**None Detected**
F2-03 T99828	Sheet Floor	0.179	81	6.7	12.3	**None Detected**

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LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. *Estimated measurement of uncertainty is available on request.* Samples were received in acceptable condition unless otherwise noted.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Amanda Rucinski

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

T91703
T99826-28
(3)

AH99486
A132936-
A132951)

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CHAIN OF CUSTODY

16

LAB USE ONLY:
ECEI Lab Code:
ECEI Lab I.D. Range:

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name:178 Jared Road
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN:

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600	■	☐	☐	☐	☐	☐
PLM BULK	CARB 435	■	☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD	■	☐	☐	☐	☐	■
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16	■	■	☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD	■	■	☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD	■	☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS: Please analyze TEM following negative PLM.

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	5/2/2019 8:30	NR	5-2-19 10:00

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

SP 05/09/19 12:33pm

7191703 A199459

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: 178 Jared Road	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
F1 (01-03)	Bamboo Pattern Sheet Floor		PLM ■	TEM ■
F2 (01-03)	White Black Checkered Sheet Floor		PLM ■	TEM ■
DW1 (01-05)	Drywall/Joint Compound		PLM ■	TEM ☐
TC1 (01-05)	Texture Ceiling		PLM ■	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
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			PLM ☐	TEM ☐
			PLM ☐	TEM ☐

Page _______ of _______

APPENDIX 4

License

[redacted]

SCDHEC ISSUED

Asbestos ID Card

Dawn Schoolcraft

		Expiration Date:
AIRSAMPLER	AS-00418	06/15/19
CONSULTMP	MP-00245	06/13/19
CONSULTBI	BI-00738	06/13/19
CONSULTPD	PD-00157	06/14/19

ASBESTOS INSPECTION REPORT

167 RED COMET ROAD
Walterboro, South Carolina
Asbestos Inspections, LLC Project # 2019-01-137
Performed in general accordance with SCDHEC regulation 61-86.1 along with OSHA regulation 29 CFR 1926

Assessment Completed by:

Asbestos Inspections, LLC
4686 Pee Dee Highway
Conway, South Carolina 29527
(843) 397-7008

Dawn Schoolcraft
SCDHEC ID# BI-00738

Assessment Completed For:

Capital Projects & Purchasing Department
Ms. Kaye Syfrett
113 Mable T. Willis Boulevard
Walterboro, South Carolina 29488

Inspection Completed On – May 1, 2019
Report Prepared On – May 15, 2019

TABLE OF CONTENTS

1.0 SIGNATURE PAGE

This report has been performed at the request of Ms. Kaye Syfrett with Colleton County. The inspection was conducted by Mrs. Dawn Schoolcraft with Asbestos Inspections, LLC on May 1, 2019. The report was prepared and reviewed by the undersigned inspector.

Inspection Performed by:	**SCDEHC #**	**Expires**	**Signature**	**Date**
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/1/19
Report Prepared by:				
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/15/19
Report Reviewed by:				
Dawn Schoolcraft	BI-00738	6/13/19	Dawn Schoolcraft	5/15/19

Asbestos Inspections, LLC

2.0 COVER LETTER

May 15, 2019

Capital Projects & Purchasing Department
Ms. Kaye Syfrett
113 Mable T. Willis Boulevard
Walterboro, South Carolina 29488

Subject: Asbestos Inspection Report
167 Red Comet Road
Walterboro, South Carolina
Asbestos Inspections, LLC Project # 2019-01-137

Dear Ms. Syfrett,

Asbestos Inspections, LLC has completed an Asbestos Inspection for the vacant residence located at 167 Red Comet Road, in Walterboro, South Carolina. The inspection was completed on May 1, 2019 by a South Carolina Department of Health and Environmental Control (SCDHEC) building inspector.

The following report summarizes the project background, assessment procedures, results, and conclusions. The results presented in this report are indicative of conditions during the time of the inspection and of the specific areas outlined. The information provided in this report should not be used as a bidding document and field conditions should be verified. Should suspect building materials, not included within this report, be identified or impacted during the destructive activities, bulk samples must be collected and analyzed for asbestos content.

I appreciate this opportunity to provide my services. Should you have any questions concerning this report, please contact me at (843) 397-7008 or (843) 995-5197.

Sincerely,

Dawn Schoolcraft

Dawn Schoolcraft
Asbestos Building Inspector (SCDHEC #BI-00738)

3.0 EXECUTIVE SUMMARY

3.1 Scope and Purpose

Ms. Kaye Syfrett, with Colleton County, requested this inspection for the vacant residence located at 167 Red Comet Road, in Walterboro, South Carolina. It is our understanding that the structure is scheduled for demolition. The purpose of this assessment is to identify asbestos containing materials (ACMs) prior to the scheduled demolition.

The inspection was completed in accordance with procedures specified in SCDHEC regulation 61.86.1 along with Occupational Safety and Health Administration (OSHA) regulation 29 Code of the Federal Regulations (CFR) 1926. The representative bulk samples collected were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory which is administered by the National Institute of Standards and Technology (NIST). This report has been prepared in accordance with Environmental Protection Agency (EPA) 40 CFR, 763.85(a)(4).

3.2 Facility Conditions

The vacant structure has sustained significant structural damage with only approximately 15-20% of the structure left standing. The standing wall consists of wood siding and wood-framed window with identified window glazing. During our inspection, unfinished drywall and roofing material were sampled on the ground around the structure. No flooring was identified during our inspection. The home appears to have been approximately 690 square-feet in size.

Suspect materials sampled and analyzed during this inspection unfinished drywall, window glazing, and roofing material.

The possibility exists that suspect materials were undetected in inaccessible areas to enter, including but not limited to: locked rooms, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during renovation, bulk samples should be collected and analyzed for asbestos content.

3.3 Findings and Conclusions

The EPA and SCDHEC define materials as asbestos containing if an asbestos content >1% is identified in a representative sample. **Asbestos >1% was detected** in the following materials sampled and analyzed:

- WG – Window glaze – approximately 100 lf. Please know that there were only a few windows identified during our inspection due to structure collapse.

The above identified ACM should be removed by a properly licensed asbestos abatement contractor. A copy of this report along with an application for abatement must be submitted to SCDHEC at least 4 working days

prior to abatement and 10 working days prior to any demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The results presented in this report are indicative of conditions during the time of the assessment. The information provided in this report should not be used as a bidding document and field conditions and quantities should be verified.

4.0 ASBESTOS ASSESSMENT DATA

The assessment was performed by observing and sampling suspect ACMs in the structure prior to the scheduled demolition. Representative bulk samples were then extracted, recorded on a chain of custody, and submitted to CEI Labs of Cary, North Carolina for laboratory analysis. The samples were tested via Polarized Light Microscopy (PLM); however, SCDHEC requires a Transmission Electron Microscopy (TEM) test be performed for all non-friable organically bound material found negative via PLM.

The following table exhibits the suspect material sampled, location, quantity of material sampled, condition of material, potential for future disturbance, laboratory test method, and laboratory result for each sample collected.

Sample #	Material	Location	Cat./# Samples	Qty.	Asbestos Type	%	Cond.	Pot. Dist.	Haz. Assess.	Test Method
DW1-01	Gray Drywall	Identified on Ground	S/3	8 sf	ND	0	SD/F	PSD	7	PLM
DW1-02	Gray Drywall				ND	0	SD/F	PSD	7	PLM
DW1-03	Gray Drywall				ND	0	SD/F	PSD	7	PLM
WG-01	Gray, Tan Window Glazing	**Windows**	**M/3**	**100 lf**	Chrysotile	<1	SD/NF	PSD	7	PLM
WG-02	Gray, Tan Window Glazing				Chrysotile	<1	SD/NF	PSD	7	PLM
WG-03	**Gray, Tan Window Glazing**				**Chrysotile**	**1.8**	**SD/NF**	**PSD**	**7**	**TEM**
R1-01	Black, Gray Shingle	Roof	M/3	690 sf	ND	0	SD/NF	PSD	6	PLM
	Black Tarpaper				ND	0	SD/NF	PSD	6	PLM
R1-02	Black, Gray Shingle				ND	0	SD/NF	PSD	6	PLM
	Black Tarpaper				ND	0	SD/NF	PSD	6	PLM
R1-03	Black, Gray Shingle				ND	0	SD/NF	PSD	6	TEM
	Black Tarpaper				ND	0	SD/NF	PSD	6	TEM

Abbreviations and Hazard Assessment Key

Category and Sampling #'s

Miscellaneous (M) = 3 samples required
Surfacing (S) = <1,000 sf = 3 samples required; 1,000-5,000 sf = 5 samples; >5,000 sf = 7 samples
Thermal System Insulation (TSI) = < 6 sf = 1 sample required; > 6 sf = 3 samples

Present Condition

F = Friable G = Good (very localized limited damage)
NF = Non-friable D = Damaged (Damage of less than 10% distributed and less than 25% localized)
SD = Significantly Damaged (Damage equal to or greater than 10% distributed/25% localized)

Potential for Future Disturbance

LPD = Low potential for disturbance (Contact, vibration, and air erosion all of low concern)
PD = Potential for damage (Contact, vibration, or air erosion of moderate concern)

PSD = Potential for significant damage (Contact, vibration, or air erosion of high concern)		
Hazard Assessment – *Present Condition Versus Potential for Future Disturbance*		
Good	*Damaged*	*Significantly Damaged* = 7
LPD = 1	LPD = 4	
PD = 2	PD = 5	
PSD = 3	PSD = 6	
Test Method		
PLM = Polarized Light Microscopy		
TEM = Transmission Electron Microscopy (required by SCDHEC for confirmation of negative results for non-friable organically bound materials)		
-- = Sample not analyzed due to positive PLM results.		
Misc.		
sf = Square Feet	lf = Linear Feet	
ND = None Detected		
EPA, SCDHEC, and OSHA define a material as asbestos containing if an asbestos content greater than 1% is detected.		

Please understand that quantities are estimated and should not be used for bidding purposes. Field conditions should be verified prior to bidding.

Site location and sample locations are identified as Figures 1 thru 2 of Appendix 1 of this report, photographs are in Appendix 2, laboratory results are in Appendix 3, and license is in Appendix 4.

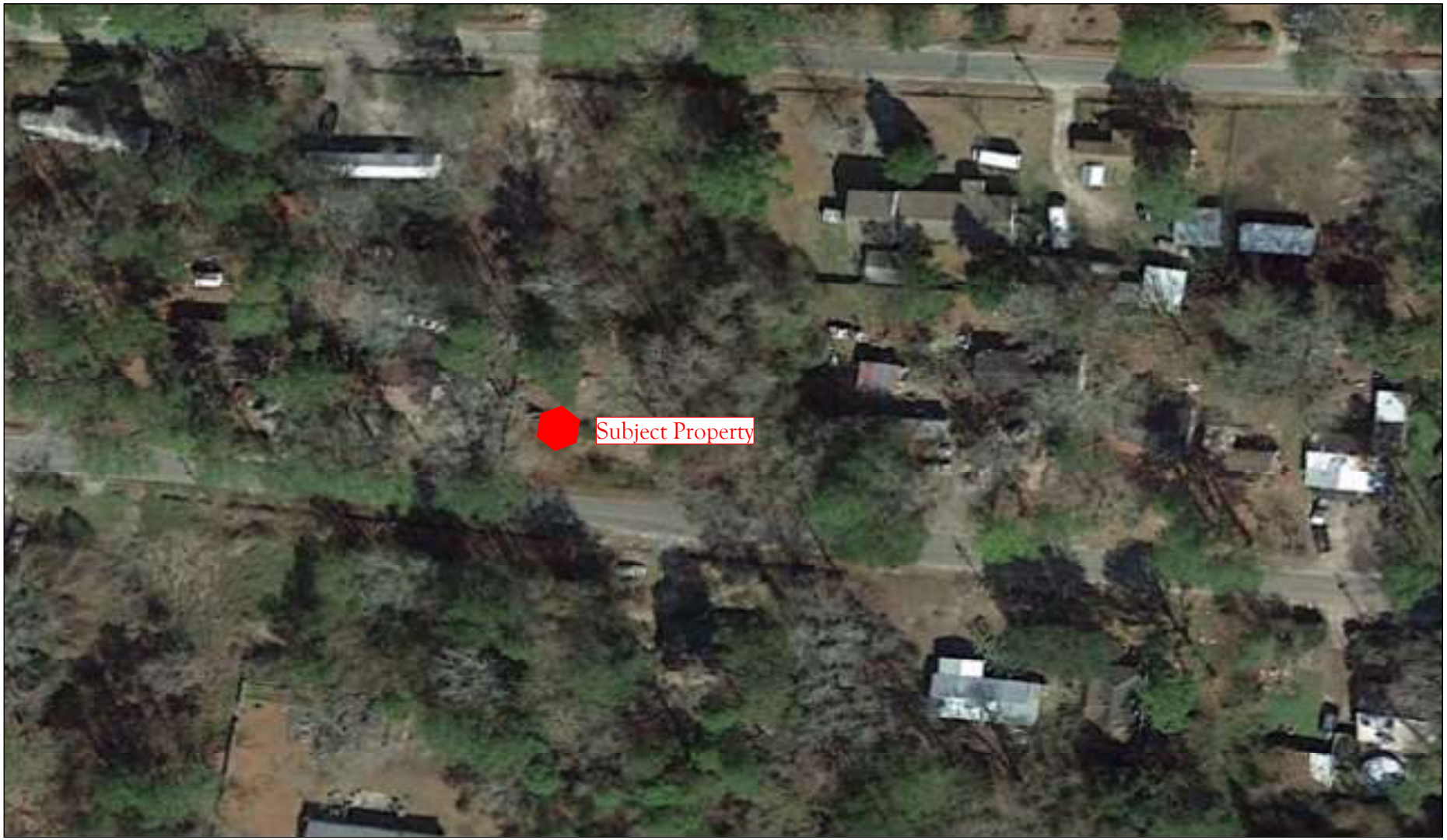
5.0 CONCLUSIONS

The EPA and SCDHEC define materials as asbestos containing if an asbestos content >1% is detected in a representative sample. **Asbestos >1 % was detected** in the following materials sampled and analyzed for the vacant residence located at 167 Red Comet Road, in Walterboro, South Carolina:

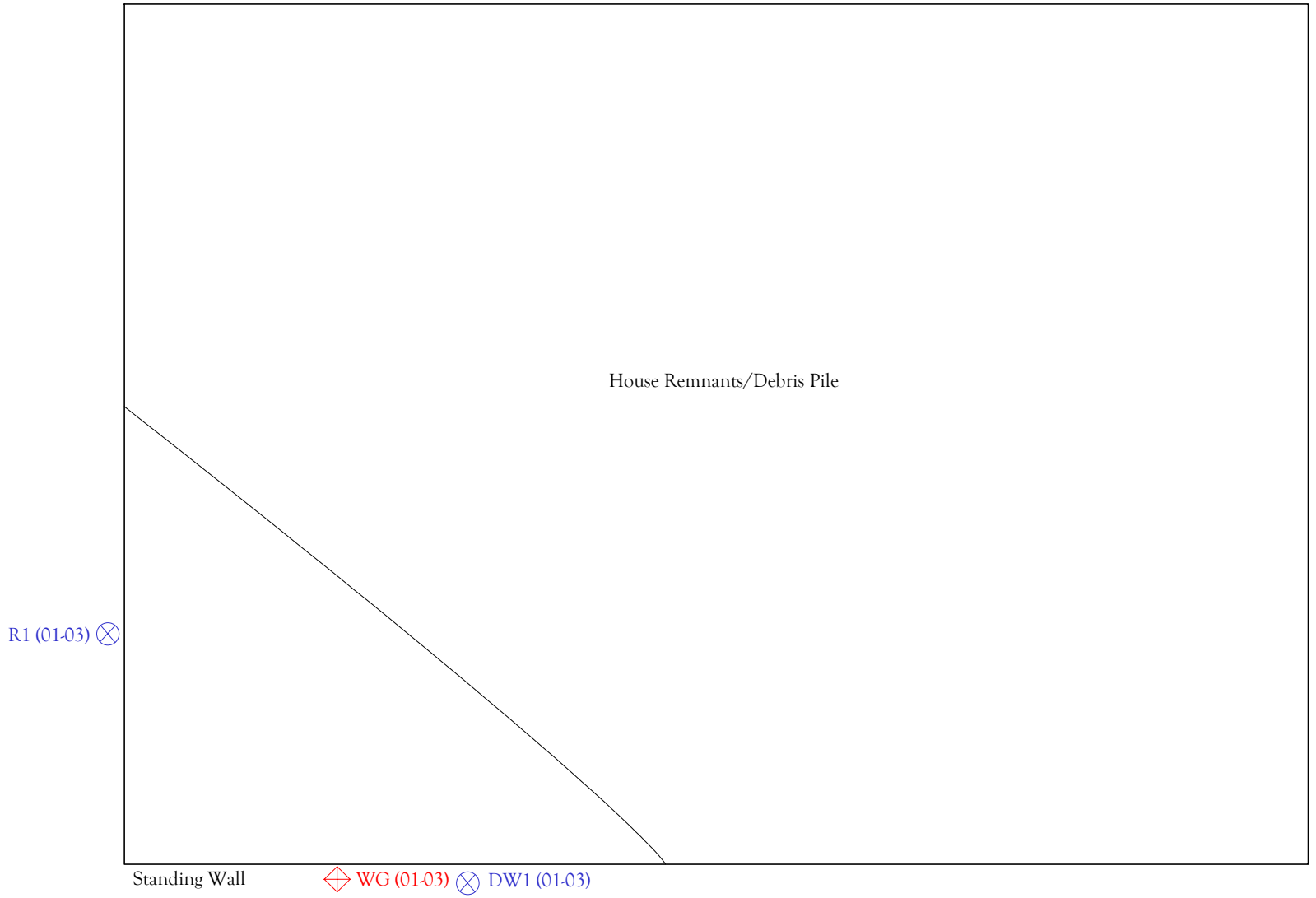
The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, locked rooms, behind exterior veneer, pipe chases, below the wood roof decking, or wall voids. If additional suspect materials not included in this report are discovered during demolition, bulk samples should be collected and analyzed for asbestos content.

APPENDIX 1

Site Location Plan and Sample Location Plan (Figures 1 thru 2)



Asbestos Inspections, LLC	Site Location Plan 167 Red Comet Road Walterboro, SC Project # - 2019-01-137	Scale: Not to Scale Reviewed By: DS Date: 5/15/2019 Source: N/A	**Figure 1**



Asbestos Inspections, LLC

Sample Location Plan
167 Red Comet Road
Walterboro, SC
Project # - 2019-01-137

Scale: Not to Scale
Reviewed By: DS
Date: 5/15/2019
Source: N/A

Figure 2

LEGEND

⊗ Sample Location

◈ Asbestos Containing Sample Location

Note: Asbestos containing window glaze was found on the accessible windows - Approx. 100 lf

APPENDIX 2

Photographs

ASBESTOS INSPECTION REPORT
167 RED COMET ROAD
Project Number – 2019-01-137
May 15, 2019

Standing Structure

Standing Structure

Structural Material

Structural Material on Ground

Structural Material on Ground

Structural Material on Ground

Visible Drywall on Ground

APPENDIX 3

Asbestos Laboratory Results

eurofins | CEI

May 9, 2019

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: 167 Red Comet Road
CEI LAB CODE: A199484

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on May 2, 2019. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

eurofins | CEI

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: 167 Red Comet Road

LAB CODE: A199484

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/09/19

TOTAL SAMPLES ANALYZED: 7

SAMPLES >1% ASBESTOS:

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 167 Red Comet Road **LAB CODE:** A199484

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DW1-01		A132869	Gray	Drywall	None Detected
DW1-02		A132870	Gray	Drywall	None Detected
DW1-03		A132871	Gray	Drywall	None Detected
WG-01		A132872	Gray,Tan	Window Glazing	Chrysotile <1%
WG-02		A132873	Gray,Tan	Window Glazing	Chrysotile <1%
WG-03		A132874		Sample Submitted for TEM Analysis	
R1-01	Layer 1	A132875	Black,Gray	Shingle	None Detected
	Layer 2	A132875	Black	Tarpaper	None Detected
R1-02	Layer 1	A132876	Black,Gray	Shingle	None Detected
	Layer 2	A132876	Black	Tarpaper	None Detected
R1-03		A132877		Sample Submitted for TEM Analysis	
		A132877		Sample Submitted for TEM Analysis	

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A199484
Date Received: 05-02-19
Date Analyzed: 05-08-19
Date Reported: 05-09-19

Project: 167 Red Comet Road

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DW1-01 A132869	Drywall	Heterogeneous Gray Fibrous Tightly Bound	10%	Cellulose	<1% 65% 25%	Paint Gypsum Binder	None Detected
DW1-02 A132870	Drywall	Heterogeneous Gray Fibrous Tightly Bound	10%	Cellulose	<1% 65% 25%	Paint Gypsum Binder	None Detected
DW1-03 A132871	Drywall	Heterogeneous Gray Fibrous Tightly Bound	10%	Cellulose	<1% 65% 25%	Paint Gypsum Binder	None Detected
WG-01 A132872	Window Glazing	Heterogeneous Gray,Tan Non-fibrous Tightly Bound	10%	Talc	2% 53% 35%	Paint Binder Calc Carb	<1% Chrysotile
WG-02 A132873	Window Glazing	Heterogeneous Gray,Tan Non-fibrous Tightly Bound	10%	Talc	2% 53% 35%	Paint Binder Calc Carb	<1% Chrysotile
WG-03 A132874	Sample Submitted for TEM Analysis						
R1-01 Layer 1 A132875	Shingle	Heterogeneous Black,Gray Fibrous Tightly Bound	15%	Fiberglass	65% 20%	Tar Gravel	None Detected
Layer 2 A132875	Tarpaper	Heterogeneous Black Fibrous Tightly Bound	55%	Cellulose	45%	Tar	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A199484
Date Received: 05-02-19
Date Analyzed: 05-08-19
Date Reported: 05-09-19

Project: 167 Red Comet Road

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
R1-02 Layer 1 A132876	Shingle	Heterogeneous Black,Gray Fibrous Tightly Bound	15%	Fiberglass	65% 20%	Tar Gravel	None Detected
Layer 2 A132876	Tarpaper	Heterogeneous Black Fibrous Tightly Bound	55%	Cellulose	45%	Tar	None Detected
R1-03 A132877	Sample Submitted for TEM Analysis						
A132877	Sample Submitted for TEM Analysis						

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LEGEND:
Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

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Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Justin Shu

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

A1994464

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CHAIN OF CUSTODY A1328669-A1328677

(9)

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
ECEI Lab Code:
ECEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: 167 Red Comet Road
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN:

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	■
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS: Please analyze TEM following negative PLM.	☒ NA Accept Samples ☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	5/2/2019 8:30	NA	5-2-19 10:00

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

A199484

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: 167 Red Comet Road	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
DW1 (01-03)	Unfinished Drywall		PLM [X]	TEM [ ]
WG (01-03)	Window Glaze		PLM [X]	TEM [X]
R1 (01-03)	Shinge/Tarpaper		PLM [X]	TEM [X]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
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			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]

Version: CCOC.07.18.2/2.LD

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May 14, 2019

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: 167 Red Comet Road
LAB CODE: T191692

Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on May 8, 2019. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield Method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

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ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: 167 Red Comet Road

LAB CODE: T191692

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116

REPORT DATE: 05/14/19

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Project: 167 Red Comet Road

Lab Code: T191692
Date Received: 05-08-19
Date Analyzed: 05-14-19
Date Reported: 05-14-19

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
WG-03 T99771	Window Glazing	0.449	5.8	80.8	13.4	**1.8% Chrysotile**
R1-03 T99772	Shingle	0.593	20.9	36.4	42.7	**None Detected**
R1-03 T99773	Tarpaper	0.593	97.8	0	2.2	**None Detected**

LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

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Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Jennifer Turner

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

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T91692
T99778-73
③

CHAIN OF CUSTODY

A199464
A132869-
A132877

LAB USE ONLY:
ECEI Lab Code:
ECEI Lab I.D. Range:

⑨

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: 167 Red Comet Road
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN:

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	■
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

***Blanks should be taken from the same sample lot as field samples.**

REMARKS / SPECIAL INSTRUCTIONS: Please analyze TEM following negative PLM.	NR ☐ Accept Samples ☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	5/2/2019 8:30	NR	5-2-19 10:00
[signature]	5/8/19 2:40		

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

Page _______ ***of*** _______

Version: CCOC.07.18.1/2.LD

7191692

A199484

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: 167 Red Comet Road	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
DW1 (01-03)	Unfinished Drywall		PLM ■	TEM ☐
WG (01-03)	Window Glaze		PLM ■	TEM ■
R1 (01-03)	Shinge/Tarpaper		PLM ■	TEM ■
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
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			PLM ☐	TEM ☐
			PLM ☐	TEM ☐

APPENDIX 4

License

[redacted]

SCDHEC ISSUED

Asbestos ID Card

Dawn Schoolcraft

		Expiration Date:
AIRSAMPLER	AS-00418	06/15/19
CONSULTMP	MP-00245	06/13/19
CONSULTBI	BI-00738	06/13/19
CONSULTPD	PD-00157	06/14/19

COLLETON COUNTY
SOUTH CAROLINA

BID: PD-24 GADSDEN LOOP
DEMOLITION and DISPOSAL PROJECT

BID FORM

Note: The County will accept the lowest responsible Base Bid based on budgetary constraints.
The unit costs that are requested are to be used only for the purpose of establishing cost reasonableness in the event that a change order becomes necessary.

Company Name:

Contact Person:

Address:

City/State/Zip

Phone Number:

Cell Phone Number:

E-mail Address:

Signature:

Contractor's License No:

Property List				*Property*					
#		*Street*	*TMS#*	*Description*	*Services*	*Unit Price*	*Units*		*Total Price*
1	*200*	*Cleveland Street*	*180-01-00-088*	*Wood Shed and House*					
					Asbestos Removal	***Not Applicable***		sy	***Not Applicable***
					Demolition			cy	$
					Fill Dirt			cy	$
					Debris Removal			sy	$
					Vegetative Removal			sy	$
					Grassing			sy	$
					Total Permit Fees			ls	$
					Total Landfill Costs			ls	$
****Do NOT demo pump station building****					**Total Bid on 200 Cleveland Street**				$
2	*107*	*Colson Street*	*164-13-00-006*	*Wood House*					
					Asbestos Removal			sy	$
					Demolition			cy	$
					Fill Dirt			cy	$
					Debris Removal			sy	$
					Vegetative Removal			sy	$
					Grassing			sy	$
					Total Permit Fees			ls	$
					Total Landfill Costs			ls	$
					Total Bid on 107 Colson Street				$

3	***1018***	***Gadsden Loop***	***180-01-00-113***	***Concrete Porch, pad & 2 brick columns***					
					Asbestos Removal	***Not Applicable***		sy	***Not Applicable***
					Demolition			cy	$
					Fill Dirt			cy	$
					Debris Removal			sy	$
					Vegetative Removal			sy	$
					Grassing			sy	$
					Total Permit Fees			ls	$
					Total Landfill Costs			ls	$
					Total Bid on 1018 Gadsden Loop				$

4	***205***	***Gadsden Loop***	***179-12-00-109***	***Brick House***					
					Asbestos Removal			sy	$
					Demolition			cy	$
					Fill Dirt			cy	$
					Debris Removal			sy	$
					Vegetative Removal			sy	$
					Grassing			sy	$
					Total Permit Fees			ls	$
					Total Landfill Costs			ls	$
****Abatement Plan attached****					**Total Bid on 205 Gadsden Loop**				$

5	***178***	***Jared Street***	***179-04-00-042***	***Wood House***					
					Asbestos Removal			sy	$
					Demolition			cy	$
					Fill Dirt			cy	$
					Debris Removal			sy	$
					Vegetative Removal			sy	$
					Grassing			sy	$
					Total Permit Fees			ls	$
					Total Landfill Costs			ls	$
					Total Bid on 178 Jared Street				$

6	***167***	***Red Comet Road***	***179-04-00-044***	***Wood House***					
					Asbestos Removal			sy	$
					Demolition			cy	$
					Fill Dirt			cy	$
					Debris Removal			sy	$
					Vegetative Removal			sy	$
					Grassing			sy	$
					Total Permit Fees			ls	$
					Total Landfill Costs			ls	$
					Total Bid on 167 Red Comet Road				$

TOTAL BASE BID	**$**