



AHERA/NESHAP ASBESTOS PROJECT DESIGN

CLIENT:

Sylvia Frierson
City of Sumter
13 E Canal Street
Sumter, SC 29150

LOCATION:

*18 Brent Street
Sumter, SC*

DATE OF DESIGN:

January 20, 2021

PREPARED BY:

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SC DHEC AHERA Asbestos Project Designer No. PD-00215
Expiration Date: September 8, 2021
SC DHEC AHERA Asbestos Inspector No. BI-01566
SC DHEC AHERA Asbestos Management Planner No. MP-00276
SC DHEC AHERA Asbestos Air Sampler No. AS-00542
SC DHEC AHERA Asbestos Supervisor No. SA-03051

SUMMIT Engineering, Laboratory & Testing, PC (SUMMIT)
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SUMMIT Job No. 5563.E0005

AHERA/NESHAP ASBESTOS PROJECT DESIGN

*18 Brent Street
Sumter, SC*

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1.0 DOCUMENT INTENT

This document represents the Asbestos Abatement Specifications for the abatement of Asbestos Containing Materials (ACMs) for the City of Sumter at 18 Brent Street, Sumter, South Carolina. The CONTRACTOR shall be responsible for adhering to the Specifications contained in the Asbestos Abatement Specifications.

The Summary of Work is intended to limit the scope and locations of items of the Work included therein. It is not intended to limit the Scope of Work should plans, schedules or notes indicate an increased scope. Inadvertent omission of an item from its proper section of the Specifications and its inclusion in another section shall not relieve the CONTRACTOR of responsibilities for the item specified.

Project:

18 Brent Street, Sumter, SC

Consultant: SUMMIT Engineering Laboratory & Testing, PC

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Fort Mill, SC 29715

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The CONTRACTOR shall assume full responsibility and liability for 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.

The CONTRACTOR shall be responsible for inspecting the site prior to commencing work to confirm the scope of work. Any quantities listed by the designer in the plans, specifications or survey are so as approximations. The calculation and verification of actual quantities of materials to be encountered is the responsibility of the CONTRACTOR.

The CONTRACTOR has and assumes the responsibility of proceeding in such a manner that they offer their employees, the OWNER's representative, the CONSULTANT and any other authorized visitors, a workplace free of recognized hazards causing or likely to cause death or serious injury.

The CONTRACTOR will be responsible for all costs associated with employee monitoring to meet the OSHA requirements.

2.0 SCOPE OF WORK

Project Location

All of the work described within this report will be conducted at the following location:

Location:

18 Brent Street, Sumter, SC

Project Type: Asbestos Abatement Specifications for the removal of the following materials prior to demolition. Estimated quantities of ACM to be abated include:

- **Approximately 60 square feet of damaged window glazing.**

The project involves the removal and disposal of the above noted items.

Ambient daily air monitoring and clearance shall be conducted.

The CONTRACTOR will be responsible for complete removal of the asbestos containing materials listed above in accordance with the project design.

Minimum respiratory protection will be half-face air-purifying respirators equipped with HEPA cartridges. The CONTRACTOR is responsible for selecting the appropriate respiratory protection for each work task and expected exposure to each employee.

The CONTRACTOR shall provide the following utility services for proper completion of the project: potable water and 110-volt electricity. The CONTRACTOR shall coordinate the location and availability of utilities through the OWNER. The CONTRACTOR shall ensure that all electrical cords are connected to GFI devices. Hoses and cords not suspended shall be taped to the floor utilizing caution tape in high traffic areas. The CONTRACTOR shall allow the CONSULTANT the use of the power and water as necessary to complete the air monitoring during the entire course of the project.

3.0 SUMMARY OF WORK

- A. Furnish all labor, materials, services, employee training and testing, permits, insurance (pertaining to asbestos abatement activity), tools and equipment necessary for safe completion of all work in accordance with all federal, state, local laws and regulations. The CONTRACTOR shall have complete understanding of all contract documents as supplied by CONSULTANT (SUMMIT). Work shall include abatement activities defined below and as represented by the accompanying drawings. The CONTRACTOR is responsible for securing the job site and is solely responsible for their materials and equipment.
- B. Abatement Work
1. **Location:**
18 Brent Street, Sumter, SC

Project Type: Asbestos Abatement Specifications for the removal of the following materials. Estimated quantities of ACM to be abated include:

Project Type: Class II (Friable, Exterior) - RACM

- **Approximately 60 square feet of damaged window glazing.**

Qualifications

The CONTRACTOR shall be licensed by the South Carolina Department of Health and Environmental Control (SC DHEC) to abate asbestos containing materials in the state of South Carolina. CONTRACTOR's employees shall be licensed by SC DHEC in their respective job/worker category.

4.0 DEFINITIONS

1. "Abatement" - Procedures to control fiber release from regulated asbestos-containing materials. This includes removal, enclosure, encapsulation, repair, and any associated preparation, clean up and disposal activities having the potential to disturb regulated asbestos-containing material.
2. "Adequately wet" - To sufficiently mix or penetrate with liquid to prevent the potential release of particulates. The absence of visible emissions is not sufficient evidence of being adequately wet.
3. "Aggressive clearance sampling" - A method of sampling which uses electric fan(s), electric leaf blower(s), and other devices to simulate vigorous activity in the abated area while air samples are being collected.
4. "AHERA" - Regulations developed pursuant to the Asbestos Hazard Emergency Response Act, 40 CFR Part 763, Asbestos Containing Materials in Schools (December 20, 1987).
5. "AIHA" - American Industrial Hygiene Association.
6. "Airlock" - A chamber which permits entrance and exit with minimum air movement between a contaminated area and an uncontaminated area, consisting of two doorways protected by two overlapping polyethylene sheets and separated by a sufficient distance such that one passes through one doorway into the chamber, allowing the doorway sheeting to overlap and close off the opening before proceeding through the second doorway. The airlock maintains a pressure differential between the contaminated and uncontaminated areas, thereby minimizing flow-through contamination further.
7. "Air sampler" - A person licensed by SC DHEC to implement air-monitoring plans and analysis schemes during abatement.
8. "Air sampling" - A method such as NIOSH 7400 for PCM, the OSHA Reference Method, 40 CFR 763 Appendix A for TEM, or an equivalent method accepted by SC DHEC used to determine the fiber content of a known volume of air during a specified period of time.
9. "Amended water" - Water to which a surfactant (for example, a non-sudsing detergent) has been added.
10. "Area air sampling" - Any form of air sampling whereby the sampling device is placed at a stationary location either inside or outside the regulated work area.
11. "Asbestos" - The asbestiform varieties of Serpentine (chrysotile), Riebeckite (crocidolite), Cummingtonite-Grunerite (amosite), Anthophyllite, and Actinolite-Tremolite.
12. "Asbestos Containing Material (ACM)" - Material containing asbestos of any type, either alone or mixed with other materials, in an amount greater than one percent (1%) as determined by using the method specified in 40 CFR Part 763, Appendix A, Subpart F, Section 1, as amended, or an accepted equivalent. (NOTE: "Appendix A to Subpart F" has been redesignated as, and shall hereinafter be referred to as, "Appendix E to Subpart E" - 60 FR 31917, June 19, 1995.)
13. "Asbestos containing waste materials" - As applied to demolition and renovation operations, this term includes regulated asbestos-containing waste materials and materials contaminated with asbestos, including disposable equipment and clothing.
14. "Asbestos project" - Any activity associated with abatement including inspection, design, air monitoring, in-place management, encapsulation, enclosure, renovation, repair, removal, any disturbance of regulated asbestos containing materials (RACM), and demolition of a facility.

15. "Asbestos project design" - A written or graphic plan prepared by an accredited project designer specifying how an asbestos abatement project will be performed that includes, but is not limited to, scope of work and technical specifications.
16. "ASHARA" - Regulations developed pursuant to 40 CFR Part 763, Subpart E, Appendix C Model Accreditation Plan, Asbestos School Hazard Abatement Reauthorization Act (November 28, 1992).
17. "Background monitoring" - Area sampling performed prior to abatement to obtain an index of existing airborne fiber levels under typical activity.
18. "Category I nonfriable asbestos containing material (ACM)" - Nonfriable asbestos or nonfriable asbestos-containing packing, gaskets, and resilient floor covering; and asphalt roofing products containing greater than one percent (1%) asbestos as determined using the method specified in 40 CFR Part 763, Appendix E, Subpart E, or an accepted equivalent.
19. "Category II nonfriable ACM" - Any material that cannot, when dry, be crumbled, pulverized, or reduced to powder by the forces expected to act upon it in the course of demolition or renovation operations, excluding Category I nonfriable ACM and containing greater than one percent (1%) asbestos as determined using the methods specified in 40 CFR Part 763, Appendix E, Subpart E, or an accepted equivalent.
20. "Clean room" - An uncontaminated area or room that is part of the decontamination enclosure system and that has provisions for storage of street clothing and protective equipment.
21. "Clearance monitoring" - Area air sampling performed using SC DHEC accepted aggressive clearance sampling techniques to determine the airborne concentrations of residual fibers upon conclusion of asbestos abatement.
22. "Contractor" - Any individual, partnership, corporation or other business concern that performs asbestos abatement but is not a permanent employee of the facility owner.
23. "Control measure" - Use of amended water, negative pressure differential equipment, encapsulant, high efficiency particulate air filtration device, glove bag or other state-of-the-art equipment designed to prevent fiber release into the air.
24. "Critical barrier" - At minimum, two independent layers of 6-mil plastic sheeting applied to any opening into a work area in a manner that creates a leak-tight seal within the work area to isolate vents, windows, doors, switches, outlets, and any other cavity or opening to the contaminated work area.
25. "Cut" - To penetrate with a sharp-edged instrument. This includes sawing, but may not include shearing, slicing, or punching.
26. "Decontamination enclosure system" - An enclosed area adjacent and connected to the regulated work area consisting of an equipment room, shower area, and clean room, each separated by airlocks, that is used for the decontamination of employees, materials, and equipment that are contaminated with asbestos.
27. "Demolition" - Wrecking or taking out any load-supporting structural member of a facility together with any related handling operations, the burning of any facility, or moving of a structure.
28. "SC DHEC" - The South Carolina Department of Health and Environmental Control.
29. "Encapsulation" - A form of abatement involving the treatment of regulated asbestos-containing material (RACM) with a liquid that covers the surface with a protective coating

- (bridging) or embeds fibers in an adhesive matrix (penetrating) to prevent the release of asbestos fibers.
30. "Enclosure" - A form of abatement involving placement of a leak-tight, impermeable, permanent barrier to prevent access to regulated asbestos-containing material and to prevent the release of asbestos fibers.
 31. "EPA" - United States Environmental Protection Agency.
 32. "Equipment room" - A contaminated area or room that is part of the decontamination enclosure system and that has provisions for the storage of contaminated clothing and equipment.
 33. "F/cc" - Fibers per cubic centimeter.
 34. "Friable" - Refers to ACM, which may, when dry, be crumbled, pulverized, or reduced to powder by the forces expected to act upon it in the course of demolition or renovation operations. This also refers to previously non-friable ACM after such material becomes damaged to the extent that when dry, can be or has been crumbled, pulverized, or reduced to powder.
 35. "Friable asbestos containing material" - Any material that, when dry, can be or has been crumbled, pulverized, or reduced to powder and contains greater than one percent (1%) asbestos as determined using the method specified in 40 CFR Part 763, Appendix E, Subpart E, as amended, or an accepted equivalent.
 36. "Goose neck" - 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.
 37. "Glovebag" - A sealed compartment with attached inner gloves used for the handling of asbestos containing materials. Information on glovebag installation, equipment and supplies, and work practices is contained in the Occupational Safety and Health Administration's (OSHA's) final rules on occupational exposure to asbestos, 29 CFR 1926.1101 (August 10, 1994), as amended, and any subsequent amendments or editions.
 38. "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.
 39. "Homogeneous area" - Area of surfacing material, thermal system insulation material, or a miscellaneous material that is uniform in color or texture.
 40. "HVAC" - Heating, ventilation, and air conditioning.
 41. "In poor condition" - Refers to any ACM where the binding of the material is losing its integrity as indicated by peeling, cracking, or crumbling of the material.
 42. "Installation" - Any building or structure or any group of buildings or structures at a single demolition or renovation site that are under the control of a single owner or operator (or of owners or operators under common control).
 43. "Leak-tight" - Dust, solids, or liquids cannot escape or spill out.
 44. "License" - A document issued by SC DHEC that allows an asbestos abatement contractor, building inspector, project designer, management planner, air sampler, supervisor, worker, or other to engage in asbestos projects.
 45. "Manometer" - Instrument for the measurement of gas pressure whose units are represented in inches of water column.
 46. "Minor project" - A project where 25 or fewer square or linear feet of regulated asbestos-containing material (RACM) are removed, or where 10 or fewer cubic feet of RACM off a facility component are cleaned up.

47. "Movable object" - A structure within the work area that can be moved (e.g., chair, desk, etc.).
48. "Negative pressure differential equipment" - A portable exhaust system equipped with a HEPA filter.
49. "NESHAP" - National Emission Standards for Hazardous Air Pollutants, 40 CFR 61, Subpart M, February 3, 1994, as amended, and any subsequent amendments or editions.
50. "NESHAP project" - An asbestos project which involves at least 160 square feet or 260 linear feet of regulated asbestos containing material (RACM), or 35 or more cubic feet of RACM off a facility component such that the area or length could not be measured prior to abatement. If several contemporaneous projects in the same area within the same building being performed by the same contractor are smaller than 160 square or 260 linear feet individually but add up to that amount, then the combination of the smaller projects shall be considered one NESHAP project.
51. "NIOSH" - National Institute for Occupational Safety and Health.
52. "OSHA" - Occupational Safety and Health Administration.
53. "Owner/operator" - Any person or contractor who owns, leases, operates, controls, or supervises a facility being demolished or renovated, or any person who operates, controls, or supervises the demolition or renovation operation, or both.
54. "Owner's representative" - A licensed supervisor, management planner, project designer, or air sampler designated by the facility owner to manage the asbestos project, and who serves to ensure that abatement work is completed according to specification and in compliance with all relevant statutes and regulations.
55. "Personal air sampling" - A method used to obtain an index of an employee's exposure to airborne fibers. Samples are collected outside the respirator in the worker's breathing zone.
56. "Project designer" - A person licensed by SC DHEC who is directly responsible for planning all phases of an asbestos abatement project design from project site preparation through complete disassembly of all abatement area barriers.
57. "Regulated area" - An area established by the owner/operator of an asbestos project to demarcate areas where asbestos abatement activities are conducted; any adjoining area where debris and waste from such asbestos work is stored; and any work area within which airborne concentrations of asbestos exceed, or there is a reasonable possibility they may exceed, the permissible exposure limit.
58. "Regulated asbestos-containing material (RACM)" - (a) Friable asbestos-containing material; (b) Category I nonfriable ACM that has become friable; (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, drilling, or abrading; or (d) Category II nonfriable ACM that is likely to become or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.
59. "Removal" - Taking out RACM or facility components that contain or are covered with RACM from any facility.
60. "Renovation" - Altering a facility or one or more facility components in any way, including the stripping or removal of RACM from a facility component. Operations in which load-supporting structural members are wrecked or taken out are demolitions.
61. "Repair" - Returning damaged asbestos-containing material to an undamaged condition or to an intact state so as to prevent fiber release.

62. "Shower room" - A room located between the clean room and the equipment room in the decontamination enclosure system containing a shower with hot and cold or warm running water controllable at the tap.
63. "Start date" - The date printed on SC DHEC-issued asbestos abatement project license, which indicates when asbestos renovation or demolition operations, including any abatement activity having the potential to disturb RACM, will begin.
64. "Strip" - To remove RACM from any part of a facility or facility component.
65. "Structures per square millimeter" - Reporting measure for Transmission Electron Microscopy (TEM) Analysis. TEM clearance requires fewer than 70 structures per square millimeter (70s/mm²).
66. "Supervisor" - A person licensed by SC DHEC and designated as the contractor's representative to provide direct on-site supervision and guidance to workers engaged in abatement of RACM.
67. "Surfactant" - A chemical wetting agent added to water to improve penetration, such as a non-sudsing detergent.
68. "Variance" - Written SC DHEC approval for the use of alternative work practices at an asbestos project.
69. "Visible emissions" - Any emissions that are visually detectable without the aid of instruments that originate from RACM or asbestos-containing waste material or a regulated work area.
70. "Waste shipment record" - The shipping document, required to be originated, prepared, and signed by the waste generator, used to track and substantiate the disposition of asbestos-containing waste material.
71. "Wet cleaning" - The process of removing asbestos contamination from facility surfaces and objects by using cloths, mops, or other cleaning tools that have been dampened with amended water.
72. "Work area" - Designated rooms, spaces, or areas in which asbestos abatement activities are to be undertaken, or that may be contaminated as a result of such abatement activities.
73. "Worker" - A person licensed by SC DHEC to perform asbestos abatement under the direct guidance of an accredited and licensed supervisor.
74. "Working day" - Monday through Friday, including holidays that fall on any of the days Monday through Friday.

5.0 PROJECT COORDINATION

5.1 Action Plan

- A. Coordinate with OWNER/CONSULTANT to determine availability of facilities.
- B. Schedule abatement operations in the sequence required to obtain the best results where execution of one part of the Work depends on execution of other components, before or after its own execution.
- C. Where necessary, prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as SC DHEC notifications, surveys, notices, reports, CONTRACTOR lists, work schedules, and attendance at meetings.
- D. Prepare a plan of the procedures proposed for use in complying with the requirements of this specification. Include in the plan the location and layout of decontamination areas, the sequencing of asbestos work, and methods used to assure the safety of workers and visitors to the site. A disposal plan should include the location of the approved disposal site, a detailed description of the methods to be employed to control pollution, methods of removal to prohibit visible emissions, and packaging of removed asbestos debris.

5.2 Project Directory

- A. Develop and post a directory of all entities involved in the project. Include the CONTRACTOR'S principal staff assignments, including the Superintendent and other personnel in attendance at the site. Identify individuals, their duties and responsibilities. List business name, contact person, normal business and emergency telephone, pager and fax numbers, and addresses of:
 - 1. CONTRACTOR'S general superintendent, supervisory personnel, and CONTRACTOR'S home office
 - 2. Emergency services including but not limited to fire, ambulance, doctor, hospital, police, power company, telephone company, water company
 - 3. Local, state, and federal agencies with jurisdiction over the project.

5.2 Miscellaneous

- A. Workers are to dress appropriately when out of the construction area and in view of the public (e.g. street clothing unless involved in asbestos abatement activities). Workers are to decon and change into street clothes prior to exiting the sight barriers. Respirators shall remain in bags when not in use.
- B. No flames or flammable materials are to be used or brought into buildings. Solvents for the removal of resilient floor covering cutback adhesives must have a flashpoint greater than 140 degrees Fahrenheit.
- C. All electrical equipment shall utilize ground fault circuit interrupters (GFCI).
- D. The CONTRACTOR shall ensure an adequate number of fire extinguishers are on-site. A minimum of one fire extinguisher with a National Fire Protection Association rating of 10BC (dry chemical) shall be placed in each per 3000 square feet of containment space or fraction thereof, of containment area. Each fire extinguisher shall be maintained in a fully charged and operable condition.
- E. SC DHEC licenses and accreditations, current fit test certification, current training/refresher certificates and medical surveillance documentation for each worker involved in the abatement work must be on-site and made available for review to the CONSULTANT and SC DHEC upon request.

6.0 SUBMITTALS

- A. Have a complete bound set of pre-job submittals prior to the start of work. Work is prohibited until submittal package has been reviewed and approved by the PROJECT DESIGNER or their Designee. A copy of the approved submittals shall be kept in a 3-ring binder (project log) by the CONTRACTOR at the project site in the Clean Room or in the on-site office of the CONTRACTOR.
1. Notifications: Where applicable, provide copies of the Asbestos Permit application and the notification for Demolition/Renovation, which provide written notice to all required agencies, including SC DHEC.
 2. Employee List: Provide copies of lists of Supervisors and Workers, along with their accreditation/license numbers.
 3. Medicals: Provide copies of current medical information indicating the employee has been medically cleared to wear respirator and perform the work outlined herein.
 4. Respirator Training: Copies of the most recent fit testing records, individually signed for each worker to be utilized on the project.
 5. Project schedule: Time schedule for the project, outlining the proposed start date, working hours and expected completion date.
 6. Initial Exposure Assessment: As required by the OSHA construction asbestos standard 29 CFR 1926.1101.
- B. Submit the following to the CONSULTANT upon the completion of the project:
1. All asbestos waste manifests within five (5) days of receipt from the landfill if not previously submitted.
 2. Copy of all notes, logs and reports maintained or prepared by the CONTRACTOR'S security personnel within five (5) days of project completion if not previously submitted.
- C. Emergency telephone numbers for the local fire department, police department, and emergency medical services shall be posted at the entrance to the Clean Room.

7.0 AIR MONITORING AND TEST LABORATORY SERVICES

A. QUALITY ASSURANCE

1. All environmental baseline and daily air monitoring will be performed in accordance with the procedures outlined in the latest edition of the National Institute for Occupational Safety and Health (NIOSH) 7400 Method and guidelines issued by Environmental Protection Agency regarding detection limits.

B. The OWNER has contracted **SUMMIT** to perform all required perimeter and area air monitoring during the abatement process.

C. Samples shall be collected during abatement according to the following schedule: Background samples in the abatement area shall be collected prior to the CONTRACTOR starting. Daily air samples shall be collected during each 8-hour work shift. The daily air samples shall be collected a minimum 2.5-hours of every 4-hours worked, and not to exceed 4-hour intervals. Clearance samples shall only be collected after the area has passed final visual inspection by the Air sampler.

D. The CONTRACTOR shall be responsible for personnel monitoring of his employees as regulated by OSHA 1926.1101 and must be conducted by SC DHEC licensed personnel.

E. PHASE CONTRAST MICROSCOPY (PCM)

1. Exterior

PCM air samples both outside of the work area will be obtained daily throughout the duration of the abatement to ensure public air space meets SC DHEC criteria.

The number and volume of air samples taken, and analytical methods used by SUMMIT for sampling will generally be as follows:

Location Sampled	Scheduled Number of Samples	Minimum Volume (Liters)	Filter Media
Outside Work Area (Daily)	4	1,200	Mixed Cellulose Ester

The air monitoring shall be performed of the outside ambient air on each corner of the construction site (north, east, south and west).

Analysis: Asbestos fibers on each 0.8-micron filter will be measured using analysis per NIOSH 7400 counting rules A.

Fiber concentrations must be maintained below 0.1 f/cc at the edge of the regulated area.

8.0 REGULATED AREAS

Securing Work Area

- A. Secure work area from access by non-authorized personnel. Accomplish this, where possible, by constructing temporary barriers with signs and warning tape.

Demarcation of Regulated Area (Refer to Section 4.0)

Demarcate the Regulated Area with signs and barrier tape. Configure the Regulated Area to minimize the number of persons within the area and to protect persons outside the area from exposure to airborne concentrations of asbestos. Establish sight barriers utilizing black plastic sheeting inside the Regulated Area and post the Asbestos Signs so that they are out of public view.

- A. SIGNS
 1. Signs must be posted (in both English and Spanish) at all entrances to the Regulated Area, at least 20" x 14", with the legend:

DANGER
ASBESTOS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING
ARE REQUIRED IN THIS AREA
- B. Post warning signs at each side of the building.
- C. Barrier tape must be used to establish the Regulated Area. Delineate the area with 3-inch wide polyethylene ribbon printed with the warning "CAUTION ASBESTOS REMOVAL". Install at a height of between three and four feet above the floor or ground level. The controlled access points shall be clearly marked with the signs required as noted above.
- D. General procedures
 1. Management of the Regulated Area is to be under the supervision of an OSHA Competent Person as described in Project Coordination.
 2. Do not allow eating, drinking, smoking, chewing tobacco or gum, or applying cosmetics in the Regulated Area.
 3. Before start of work, comply with requirements for worker protection in Respiratory Protection Section.

9.0 RESPIRATORY PROTECTION

General Requirements

Instruct and train each worker involved in asbestos abatement/demolition in proper respirator use and require that each worker always wear a respirator, properly fitted on the face in the Regulated Area from the start of any operation which may cause airborne asbestos fibers until the Regulated Area is completely decontaminated. Use respiratory protection appropriate for the fiber level encountered in the workplace or as required for other toxic or oxygen-deficient situations encountered. Respiratory protection will not be required during preparation of the Negative Pressure Enclosures and Regulated Areas. Minimum respiratory protection will be half-face air-purifying respirators equipped with HEPA cartridges.

Standards

Except to the extent that more stringent requirements are written directly into the Contract Documents, the following regulations and standards have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly into the Contract Documents, or as if published copies were bound herewith. Where there is a conflict in the regulations and standards, the more stringent requirement must be met.

1. SC DHEC- REGULATION 61-86.1, STANDARDS OF PERFORMANCE FOR ASBESTOS PROJECTS
2. OSHA - U.S. Department of Labor Occupational Safety and Health Administration, Safety and Health Standards 29 CFR 1910, Section 1001 and Section 134 and 29 CFR 1926.1101.
3. ANSI - American National Standard Practices for Respiratory Protection, ANSI Z88.2-1990.
4. NIOSH - National Institute for Occupational Safety and Health

Non-permitted respirators - Do not use single use, disposable or quarter face respirators.

10.0 MATERIALS AND EQUIPMENT

Utilities

- A. The CONTRACTOR shall supply electricity (110V) and potable water.
- B. The CONTRACTOR shall supply GFCI for all electrical circuits.

Tools and Equipment

- A. Respirators
 - 1. Respiratory protection will not be required during preparation of NPE's or Regulated Areas.
 - 2. Minimum respiratory protection will be half-face air-purifying respirators equipped with HEPA cartridges.
 - 3. All respirators must be NIOSH approved.
- B. Protective clothing shall meet or exceed minimum protective clothing requirements of Title 29 CFR 1926.1101 and include full body disposable coveralls, disposable hood (separate or integral to coverall) and foot coverings (reusable footwear, 18-inch high boot type disposable foot coverings or foot coverings integral to coverall).
- C. Decontamination system for non-friable removals shall be 6-mil poly on the floor outside the enclosure (regulated area). Decontamination system for friable removals shall consist of a "clean room", a "shower room", and an "equipment room". Each room shall be separated from each other and the work area by a "Z" flap airlock (or non-friable materials that are rendered friable).
- D. Filtration systems for drain lines from showers or other water sources carrying asbestos contaminated water shall have disposable type primary and secondary filters and, if necessary, sump pump. Primary filter shall pass particles 20 microns and smaller; secondary filters, 5 microns and smaller.
- E. Miscellaneous Equipment
 - 1. Low pressure sprayer for amended water applications.
 - 2. First Aid Kit must be on-site and available at the clean room.

Materials

- A. For wetting prior to disturbance of Asbestos-Containing Materials, use either amended water or a removal encapsulant.
 - 1. Amended water must result in the retardation of fiber release equal to or greater than that provided by the use of one ounce of a surfactant consisting of 50% polyoxethylene ester and 50% polyoxyethylene ether mixed with five gallons of water.
 - 2. Encapsulant shall be penetrating or bridging type designed to provide the same retardation of fiber release as the amended water in the above.
- B. Polyethylene sheeting shall be 'true' 6-mil OR with a dart impact of 270 grams, tear resistance of 512 grams, and transverse direction of 2067 grams (check manufacturer's specifications). Wall polyethylene sheeting must be 'true' 4 mil OR the equivalent dart impact. Width of sheeting must be the largest size possible to minimize seams, clear, frosted or black, as indicated. Disposal bags must meet the

- 'true' 6-mil requirement for disposal of ACM. Manufacturer's specifications must be on-site for any other thickness that 'true' 6-mil poly.
- C. Duct tape in 2" or 3" widths and spray cement formulated to stick aggressively to polyethylene sheeting.

11.0 WORK AREA CLEAN UP AND VERIFICATION

- A. Provide general clean-up of work area concurrent with the removal of all asbestos-containing materials. Do not permit accumulation of debris.

11.1 REMOVAL OF ASBESTOS-CONTAINING MATERIAL

Removal

Remove and properly dispose of all asbestos containing materials as specified in the Contact Documents in accordance with the methods and procedures outlined in the OSHA 29 CFR 1926.1101, 40 CFR Part 763, and 40 CFR 61, Subpart M, February 3, 1994, as amended, and any subsequent amendments or editions.

Maintain exposure levels below 0.1 fibers per cubic centimeter (f/cc) regardless of respiratory protection provided. The CONSULTANT'S PROJECT MANAGER reserves the right to order a cease in abatement activity should fiber counts exceed the PEL or visible emissions are observed until control measures are implemented to reduce fiber levels below the PEL and/or eliminate visible emissions.

A. Removal of window glazing (Class II Work, Exterior):

The CONTRACTOR shall remove the ACM in a non-friable manner. All ACM once removed in shall be: thoroughly wet during stripping or removal and shall remain wet until disposed of, carefully lowered to the ground or floor, not dropped or thrown, and at no time shall the ACM to accumulate or become dry.

Ambient daily air monitoring during abatement shall be conducted.

Clearance shall consist of visual observation only.

12.0 DISPOSAL OF ASBESTOS-CONTAINING WASTE MATERIAL

- A. Dispose of ACM and used plastic sheeting, tape, cleaning materials and disposable protective clothing as asbestos waste materials.
- B. Waste must be loaded, stored and transported in a 6 mil, poly-lined, rigid top truck or dumpster which can be locked or guarded from unauthorized access. Dumpster will remain closed and locked when not in use.
- D. Prepare for each load a SC DHEC Asbestos Waste Manifest and obtain signature on the waste manifest from the CONSULTANT'S PROJECT MANAGER prior to transporting waste.
- E. Dispose of asbestos waste in landfills approved by the EPA and/or the state as authorized disposal facilities for asbestos and operating in compliance with Title 40 CFR 61.156 at the time of disposal.
- F. Transport waste, accompanied by manifest, to an approved waste site for disposal as asbestos waste and provide the CONSULTANT'S PROJECT MANAGER a copy of manifest signed by the waste disposal facility representative.

Asbestos Inspections



AHERA/NESHAP ASBESTOS INSPECTION REPORT

CLIENT:

Sylvia Frierson
City of Sumter
13 E Canal Street
Sumter, SC 29150

LOCATION:

18 Brent Street
Sumter, SC

DATE OF INSPECTION:

November 30, 2020

DATE OF REPORT:

January 4, 2021

PREPARED BY:

Allyson Bowen, MPH
SC DHEC AHERA Asbestos Building Inspector No. BI-01566
SC DHEC Asbestos Supervisor No. SA-03051
SC DHEC Asbestos Air Sampler No. AS-00542
SC DHEC Asbestos Project Designer No. PD-00215
Expiration Date: September 8, 2021

SUMMIT Engineering, Laboratory & Testing, P.C. (**SUMMIT**)
3575 Centre Circle
Fort Mill, SC 29715
704-504-1717

SUMMIT Job No. 5563.E0005

AHERA/NESHAP ASBESTOS INSPECTION REPORT
18 Brent Street
Sumter, SC

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FIGURES

1.0 Site Location Map

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B Asbestos Inspector’s License
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1.0 REPORT CERTIFICATION

SUMMIT is pleased to provide environmental consulting services for Sylvia Frierson with the City of Sumter. Please contact this office at 704-504-1717 with any questions or comments regarding the findings submitted in this report.

This document, entitled *AHERA/NESHAP Asbestos Inspection Report*, was prepared for Sylvia Frierson with the City of Sumter, and the South Carolina Department of Health and Environmental Control with sound practices and procedures and in accordance with Asbestos Hazard Emergency Response Act (AHERA), Title II of the Toxic Substance Control Act (TSCA), SCDHEC Regulation 61-86.1, 40 CFR 61, and 40 CFR 763 for Asbestos Containing Materials (ACM) guidance. The results obtained by the work documented in this report fulfill the requirements of federal, state, and local regulations regarding Asbestos Containing Materials.



January 4,
2021

Allyson Bowen, MPH
SC DHEC Asbestos Inspector No. BI-01566
Expiration Date: September 10, 2021
SC DHEC AHERA Supervisor No. SA-03051
Expiration Date: September 9, 2021
SC DHEC Asbestos Air Sampler No. AS-00542
Expiration Date: September 9, 2021
SC DHEC Asbestos Project Designer No. PD-00215
Expiration Date: September 8, 2021

Date

2.0 EXECUTIVE SUMMARY

On November 30, 2020, SUMMIT Engineering, Laboratory & Testing, P.C. (**SUMMIT**) performed an AHERA/NESHAP Asbestos Inspection for Sylvia Frierson with the City of Sumter at a residential structure located at 18 Brent Street in Sumter, SC. The structure is currently vacant and will be demolished. The structure is approximately 660 square feet in size. The sample areas featured remnant roofing materials and window glaze.

The purpose of this inspection was to investigate available records for the specification of asbestos containing material (ACM), inspect for suspect materials, sample and analyze suspect materials to test for asbestos, and assess the condition and location of the ACM and other characteristics of the structure. Materials were sampled by a licensed asbestos inspectors, Allyson Bowen and Belinda Campbell, of **SUMMIT** Engineering.

A homogeneous material is a material that appears to be uniform when properties such as age, color, and texture are compared. Two (2) homogeneous areas were sampled. The homogeneous areas are described in detail in section 3.0 of this report.

One (1) asbestos containing material was identified within the structure.

WG-01-01- through 03

The window glaze was sampled from the windows. The results indicated that this material is classified as an Asbestos Containing Material (ACM), with 1.1% Chrysotile asbestos. The material is classified as a friable, miscellaneous material and is in significantly damaged condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

3.0 SUSPECT MATERIALS

3.1 Window Glaze

WG-01-01- through 03

The window glaze was sampled from the windows. The results indicated that this material is classified as an Asbestos Containing Material (ACM), with 1.1% Chrysotile asbestos. The material is classified as a friable, miscellaneous material and is in significantly damaged condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

3.2 Roofing Systems

RS-01-01- through 03

The roofing systems were sampled from the roof. The results indicated that these materials are not classified as Asbestos Containing Materials (ACM). The materials are classified as non-friable, miscellaneous materials and are in good condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

4.0 CONCLUSIONS AND RECOMMENDATIONS

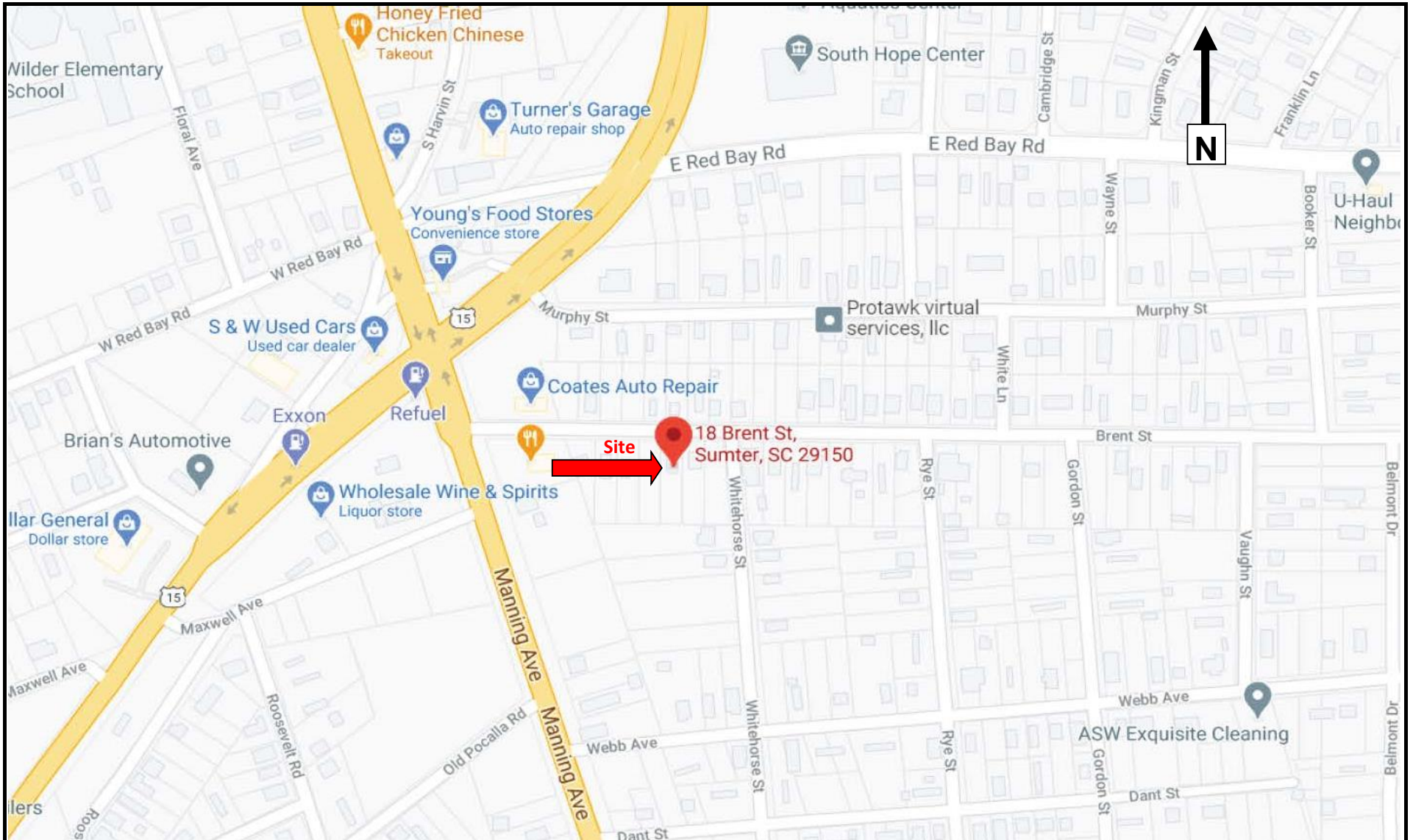
On November 30, 2020, SUMMIT Engineering, Laboratory & Testing, P.C. (**SUMMIT**) performed an AHERA/NESHAP asbestos inspection at 18 Brent Street, Sumter SC.

SUSPECT MATERIAL	ACM (Y/N)	FRIABLE (Y/N)	AMOUNT (Square feet)
Window Glaze (WG-01)	Y	Y	60
Roofing Systems (RS-01)	N	N	150

If the structure is to be renovated or demolished, a copy of this report and a notification of demolition or renovation forms must be submitted to The South Carolina Department of Health and Environmental Control (SCDHEC) at least ten working days prior to these activities taking place.

Bidders are responsible for their own calculations and estimates of quantities. Actual quantities may be more or less than indicated. Though every effort was made to examine wall cavities and other areas for pipe insulation, spray-applied or trowel applied miscellaneous material or other miscellaneous materials and other Presumed Asbestos Containing Material (PACM), this survey and report only deals with accessible areas of the building. There may be additional inaccessible areas above ceiling, behind walls and below floors that become evident during demolition or renovation activities. If suspect materials are found, additional asbestos testing may be required.

FIGURES



Source: Base Map provided by Online sources

	<p align="center">Site Location Map</p> <p align="center">18 Brent Street Sumter, SC</p>	<p align="center">Chris Hilditch City of Sumter</p>	<p>Prepared By\Date: AB/1/21 Checked By\Date: PL/1/21 Scale</p> <p align="center">Not to Scale</p> <p align="right">Figure 1</p>
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APPENDIX A

ANALYTICAL RESULTS



CHAIN OF CUSTODY

LAB USE ONLY:
 Summit Order Number: 2021-1-13-SSUBS.E0005

3575 Centre Circle, Fort Mill, SC 29715
 Tel: 704-504-1717; Fax: 704-504-1125

COMPANY CONTACT INFORMATION	
Company: Summit ELT	Job Contact: A. Bowen
Address: 3575 Centre Circle Fort Mill, SC 29715	Email: abowen@summit-companies.com
	Tel: 803.391.1863
	Fax:
Project Name: 18 Brent Street	State Collected In: SC
Project ID #: 5563.E0005	

ASBESTOS	METHOD	TURN AROUND TIME						
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY	2 Week
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
POSITIVE STOP ANALYSIS: <input checked="" type="checkbox"/>								

COMMENTS: TEM's by Friday 1/15		<input checked="" type="checkbox"/>	Accept Samples
		<input type="checkbox"/>	Reject Samples
Relinquished By:	Date/Time	Received By:	Date/Time
A. Bowen	1/12/2021	<i>Chin Estro</i>	1/13/21

Samples will be disposed of 60 days after analysis

Asbestos Laboratory Report

Prepared for

Summit ELT, P.C.

Project: 18 Brent Street

Summit #: 2021-1-13-5563.E0005

Date Analyzed: 1/15/2021

Date Reported: 1/15/2021

Total Samples Analyzed: 4

Samples >1% Asbestos: 0

Method of Analysis: EPA 600 / R93 / 116



Summit Laboratories

3575 Centre Circle, Fort Mill, SC 29715 Summit Order: 2021-1-13-5563.E0005
 Phone: (704) 504-1717

Summit ELT, P.C.
3575 Centre Circle
Fort Mill, SC 29715

Date Received: 1/13/2021
 Date Analyzed: 1/15/2021
 Date Reported: 1/15/2021

Project : 18 Brent St.

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

Sample ID	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous (other)	% Asbestos
WG 1-1 2021-1-13-5563.E0005-1	Window Glaze	White Non-fibrous Homogeneous		100% Non-fibrous (other)	None Detected
WG 1-2 2021-1-13-5563.E0005-2	Window Glaze	White Non-fibrous Homogeneous		100% Non-fibrous (other)	None Detected
RS 1-1 2021-1-13-5563.E0005-3	Roof Systems	Tan,Brown Fibrous Homogenous	5% Glass	95% Non-fibrous (other)	None Detected
RS 1-2 2021-1-13-5563.E0005-4	Roof Systems	Tan,Brown Fibrous Homogenous	5% Glass	95% Non-fibrous (other)	None Detected



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (lab use only):

412100303

PHONE:
FAX:

Company Name : Summit ELT, P.C.		EMSL Customer ID:	
Street: 3575 Centre Circle		City: Fort Mill	State or Province: SC
Zip/Postal Code: 29715	Country: US	Telephone #:	Fax #:
Report To (Name): Ally Bowen		Please Provide Results via: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
email Address: abowen@summit-companies.com		Purchase Order Number:	
Client Project ID: 18 Brent Street / 5563.E0005		EMSL Project ID (internal use only):	
State or Province Collected:		CT only <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt <input type="checkbox"/>	
EMSL-Bill to: <input type="checkbox"/> Same <input type="checkbox"/> Different - <i>If bill to is different note instructions in comment. Third party billing requires written authorization from third party</i>			
Turnaround Time (TAT) Options Please Check			
<input type="checkbox"/> 3 Hr ¹	<input type="checkbox"/> 4-4.5Hr ¹ <small>AHERA Only</small>	<input type="checkbox"/> 6 Hr ¹	<input checked="" type="checkbox"/> 24 Hr
		<input type="checkbox"/> 32 Hr ²	<input type="checkbox"/> 48 Hr
		<input type="checkbox"/> 72 Hr	<input type="checkbox"/> 96 Hr
		<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
<small>¹Premium Service Charge applies for 3 Hour TEM AHERA or EPA Level II TAT - you will be asked to sign an authorization form. TEM Air 3-6 Hour, please call ahead to schedule ²32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.</small>			
PCM - Air		TEM - Air¹	
<input type="checkbox"/> NIOSH 7400		<input type="checkbox"/> AHERA 40 CFR, Part 763	
<input type="checkbox"/> w/ OSHA 8hr. TWA		<input type="checkbox"/> NIOSH 7402	
PLM - Bulk (reporting limit)		<input type="checkbox"/> EPA Level II	
<input type="checkbox"/> PLM EPA 600/R-93/116 (<1%)		<input type="checkbox"/> ISO 10312	
<input type="checkbox"/> PLM EPA NOB (<1%)		TEM - Bulk	
Point Count		<input checked="" type="checkbox"/> TEM EPA NOB	
<input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> NYS NOB 198.4 (non-friable-NY)	
Point Count w/Gravimetric		<input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%) [*]	
<input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		TEM - Water: EPA 100.2	
<input type="checkbox"/> NYS 198.1 (friable - NY)		Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
<input type="checkbox"/> NYS 198.6 NOB (non-friable-NY)		All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
<input type="checkbox"/> NYS 198.8 SOF-V			
<input type="checkbox"/> NIOSH 9002 (<1%)			
		TEM- Settled Dust	
		<input type="checkbox"/> Microvac - ASTM D 5755	
		<input type="checkbox"/> Wipe - ASTM D6480	
		<input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)	
		Soil - Rock - Vermiculite (reporting limit)	
		<input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%)	
		<input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%) [*]	
		<input type="checkbox"/> TEM Qualitative via Filtration Prep	
		<input type="checkbox"/> TEM Qualitative via Drop Mount Prep	
		<input type="checkbox"/> Cincinnati Method EPA 600/R-04/004 - PLM/TEM	
		<small>[*]Lower reporting limits available on request</small>	
		Other test (please specify):	
<input type="checkbox"/> Stop At First Positive (clearly identify homogenous areas below)		Filter Pore Size (Air Samples): <input type="checkbox"/> 0.8µm <input type="checkbox"/> 0.45µm	
Sampler's Name:		Sampler's Signature:	
Sample #	Sample Description/Location	Volume, Area or Homogenous Area	Date/Time Sampled
WG-01-03	Window Glaze		
RS-01-03	Roof Shingle		
Client Sample # (s): -		Total # of Samples:	
Relinquished by (Client): Christopher Estes		Date: 1/13/2021	Time: 730
Received by (Lab): <i>[Signature]</i>		Date: 1/14/21	Time: 7:15am
Comments/Special Instructions:		DB	



EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

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

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

EMSL Order: 412100303

Customer ID: SECS21A

Customer PO:

Project ID:

Attention: Ally Bowen
Summit Engineering & Construct. Services
3575 Centre Circle
Fort Mill, SC 29715

Phone: (803) 547-8107

Fax:

Received Date: 01/14/2021 7:15 AM

Analysis Date: 01/14/2021

Collected Date:

Project: 18 Brent Street/ 5563.E0005

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

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
WG-01-03 412100303-0001	Window Glaze	Gray/White Non-Fibrous Homogeneous	98.9 Other	None	1.1% Chrysotile
RS-01-03 412100303-0002	Roof Shingle	Brown/Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Derrick Young (2)

Lee Plumley, Laboratory Manager
or other approved signatory

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

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 01/14/2021 15:25:40

APPENDIX B

INSPECTOR'S LICENSES

SCDHEC ISSUED

Asbestos ID Card

Allyson Bowen



		Expiration Date:
AIRSAMPLER	AS-00542	09/09/21
CONSULTBI	BI-01566	09/10/21
CONSULTMP	MP-00276	09/10/21
CONSULTPD	PD-00215	09/08/21
SUPERAHERA	SA-03051	09/09/21

APPENDIX C

SUMMIT DOCUMENTATION

SITE PHOTOGRAPHS



This photo depicts the front of the residence.



This photo depicts the inside of the residence.



This photo depicts remnant roofing material inside the residence.



This photo depicts a bathroom at the back of the residence.



This photo depicts the window glaze sampled from the windows.



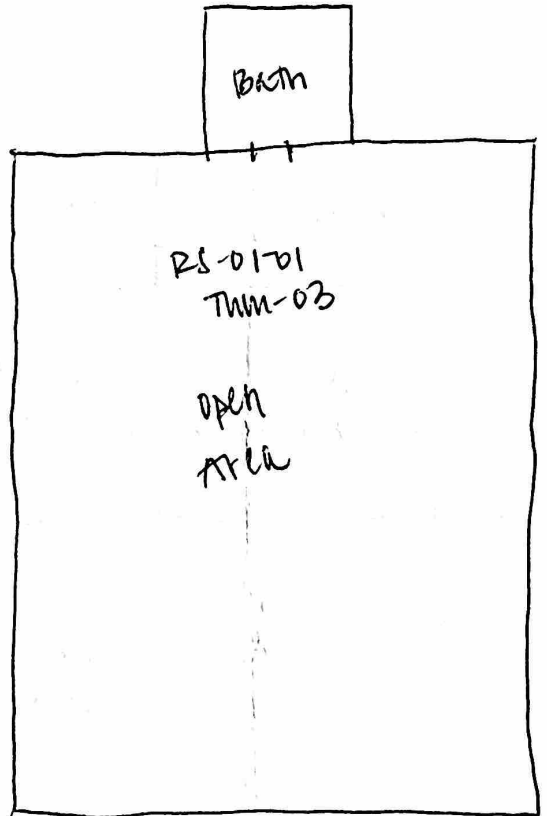
This photo depicts another view of a window.

18 Brent Street

20x33

7 Windows

Roof Shingle
Window Glass.



BATH

RS-0101
THM-03

Open
Area

WE-0101
THM-03.