DICKENSON COUNTY PUBLIC SCHOOLS
DICKENSON COUNTY, VIRGINIA

INVITATION FOR BID

DEMOLITION AND REMOVAL OF DEBRIS: SANDLICK ELEMENTARY SCHOOL

July 18, 2023

MANDATORY PREBID CONFERENCE: Tuesday, August 1, 2023, at 1:30 PM.

LOCATION FOR PREBID CONFERENCE:

Sandlick Elementary School
186 Anderson Lane
Birchleaf, VA 24220

RECEIPT DATE: August 17, 2023, no later than 2:00 p.m. local time.

OPENING DATE: August 17, 2023 at 2:00 p.m. local time

BIDS SHALL BE DELIVERED TO:

Dickson County School Board
309 Volunteer Avenue
P.O. Box 1127
Clintwood, VA 24228

For overnight deliveries, please send to the post office box noted above.

PROJECT CONTACT: **For all questions related to the bidding process, please contact:**
Brandon Taylor, Owner's Representative
(540) 200-7874
curtis.elswick@skanska.com

To coordinate site visits during the bidding period, please contact:
Burl Mooney
Office: (276) 926-6511
Cell: (276) 393-6454

QUESTIONS: Questions must be submitted in writing to Brandon Taylor by 5:00 pm on August 11, 2023. An electronic message may be submitted to brandon.taylor@skanska.com. If necessary, an addendum will be issued and posted on the Dickenson County Public Schools website and eVa at https://eva.virginia.gov/index.htm. **It is the responsibility of the bidder to download any addenda.**

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Date: July 18, 2023

Sealed bids are invited for the demolition of Sandlick Elementary School and associated structures to include fieldhouse, wood structure and pump station, field goal posts, ticket booth, picnic shelter, and outbuilding. Scope includes abatement of hazardous materials.

All bids must be submitted in a sealed envelope or package clearly marked **"Bid for Demolition of Sandlick Elementary School."** All bids shall be received in the School Board Office, on or before 2:00 p.m., August 17, 2023 and delivered to the address below. Overnight deliveries are acceptable but not encouraged.

Dickenson County School Board
Attn: Haydee Robinson, Division Superintendent
309 Volunteer Avenue
Clintwood, VA 24228

Bids shall be publicly opened and read aloud at the above stated date, time and location. Any bid received after the time designated above will be returned unopened.

A **mandatory** Pre-Bid Conference will be held on August 1, 2023 at 1:30 p.m. at Sandlick Elementary School Located at 186 Anderson Lane in Birchleaf, VA.

Must be licensed as a Class A contractor in the State of Virginia. A bid bond in the amount of 5% is required. Procedures for submitting a bid, claiming an error, withdrawal of bids, and other pertinent information are contained in the contract documents. The procedure for withdrawal of bids shall be in accordance with the Instructions to Bidders and Section 2.2-4330, Code of Virginia. Bidders shall be required to comply with the provisions of Section 2.2-4311, Code of Virginia, in regard to nondiscrimination in employment. The owner reserves the right to reject any or all bids.

The Invitation for Bids for the above project, including the specifications and other information necessary for bidding, may be obtained online at no charge by visiting the Dickenson County Public Schools website at https://www.dcps.k12.va.us/ or eVa at: https://eva.virginia.gov/index.htm.

END OF INVITATION TO BID

GENERAL SPECIFICATIONS

A. The Contractor shall furnish all labor, materials, and equipment necessary to demolish:

Base Bid:

Sandlick Elementary School: All above-ground structures identified in Exhibit A including Sandlick Elementary School, fieldhouse, wood structure and pump station, field goal posts, ticket booth, picnic shelter, and outbuilding. Scope includes abatement of hazardous materials. Structures not identified to be removed per Exhibit A are to remain. This includes the complete removal of all building and demolition materials from the site including foundations and the restoration of the site by rough grading and permanent seeding **within 90 calendar days of Notice to Proceed**. All materials removed from the site must be taken to a qualified landfill except inert debris which can be ground up and left on site such as concrete and brick material. The contractor must take precautions to minimize dust debris and keep roads clean.

B. All labor equipment necessary to demolish the structures and properly grade the lot, per the following specifications:

1. Contractor shall provide all material, labor, fabrication, scaffolding, equipment, machinery, tools, transportation, supervision and installation necessary to achieve a turn-key scope in accordance with these Specifications.

2. Permits for all demolition work will be acquired by the Contractor from the local building official. Contractor to include all costs to obtain all town, county, and state licenses necessary to perform the Work;

3. Contractor shall include all Virginia Sales and Use taxes;

4. Contractor shall provide performance and payment bonds on AIA Document A312-2010;

5. Contractor will receive, unload, hoist, and protect, etc. the work of this scope of work. Hoisting of materials to required levels is by this Contractor for the work of this contract. Any scaffolding required for this scope of work is by this Contractor;

6. Contractor shall be responsible for damage to existing structures to remain or adjacent properties including, but not limited to, pavements, sidewalks and buildings caused by their employees' vehicles or delivery of materials. Repairs of damaged paving, parking blocks, landscaping, or any other items shall be paid for by the responsible Contractor. Any complaints for damage to properties shall be resolved within ten (10) calendar days;

7. Contractor will have their project manager or general superintendent attend all progress meeting to properly discuss and plan upcoming Work;

8. Contractor shall comply with all requirements of local, State and Federal authorities regarding loading of trucks, covering of transported material and cleaning of adjacent public ways. No offsite debris will be allowed to be brought onto the site during the execution of the work;

9. Contractor shall survey and evaluate all areas to be demolished prior to demolition and confirms the scope and limits of work are in accordance with the contract documents and/or the pre-bid walk through;

10. Contractor should engage a licensed engineer as may be needed to ascertain means and methods for removal. Owner will not be held liable for contractor's techniques, methods or equipment used to complete the Work;

11. Provide all temporary protection as needed to cover the Work;

12. Salvageable materials are not an item. Dispose of all scheduled items in a legal manner off site;

13. Contractor will have the responsibility for damage to streets, adjacent premises and utilities;

14. Contractor shall include, pest control (extermination) and provide barricades, wash rack, street cleaning and dust control as required during the performance of the work;

15. Contractor shall include any and all temporary utilities to include but not limited to; power, electrical and safety protection;

16. Any and all material price escalation must be accounted for in the agreed price;

17. Temporary bracing and shoring of all walls and slabs as necessary in accordance with OSHA and ANSI standards;

18. Contractor must coordinate with Authority Having Jurisdiction and any independent testing lab for all State and Third Party Inspections directly related to Work as outlined in this Contract;

19. Contractor shall provide fire extinguishers; power cords including GFCI's; security and lock-up of stored materials; protection of work; removal and replacement of temporary handrails, barricades, fences, and erosion control; safety tools and equipment including all required personal protective equipment; flagmen and traffic control for delivery of materials and execution of the work; and trench boxes and confined space equipment;

20. Contractor to coordinate and seek approval from Owner for Contractor parking, storage, and laydown needs;

21. The Contractor shall obtain all necessary approvals for disconnect and capping of utilities (gas, electric, water, sewer-septic) and have documentation signed by a representative of each respective utility company to indicate verification of subject disconnection and forward signed certificate to the local building official and Owner;

22. The Contractor shall be responsible for the disconnection of all utilities (gas, electric, water and sewer-septic) prior to the demolition of the structure;

23. The Contractor shall be responsible for capping of existing sewer lines after demolition and call for an inspection of same;

24. All work shall be in accordance with local codes and ordinances;

25. Hazardous materials are expected to be found in the buildings. See HAZMAT survey reports included in Exhibit B. If any suspect materials are encountered during the performance of the work that are not identified in the reports included in Exhibit B, notify the Owner immediately, but no later than 24 hours from the time of the encounter. All hazardous materials must be removed and disposed of in accordance with all applicable local, state and federal regulations. These materials may include but not be limited to: lead paint, asbestos, mercury, PVBS, CFCS, pesticide, or other hazardous materials. The contractor must follow proper procedures in the handling and disposal of hazardous materials and wastes. Copies of the HAZMAT surveys are included within the Contract Documents for informational purposes only.

26. Contractor shall inform Building Official of his designated debris disposal sites. Debris must be disposed of in accordance with 9VAC20-81-95 C.7 and VAC20-81-95 D-11. Construction debris meeting the requirements of these Code sections may be disposed of locally. Remaining debris must be salvaged or disposed of in an approved landfill. Contractor understands that concrete and concrete products with a minimum of painted surface and no protruding reinforcement bars is considered suitable for local disposal.

27. The cleared lot shall be inspected by the Building Official and Owner for proper clearance rough grading and seeding prior to payment;

28. Demolition equipment used by the contractor shall not be left on vacant lot more than 24 hours after completion of demolition activities. NOTE: The Owner is not responsible for equipment left unattended on the lot.

29. The Contractor must provide a phone number where he can be reached in case of an emergency; and

30. The Contractor must advise the Building Official when he will commence demolition activities.

C. MANDATORY PRE-BID CONFERENCE AND SITE VISIT

1. The Mandatory Pre-Bid Conference and Site Visit will take place on August 1, at 1:30 p.m. at Sandlick Elementary School located at 186 Anderson Lane in Birchleaf, VA.
2. The purpose of the Pre-Bid Conference and Site Visit is for contractors to become familiar with the site, the surroundings, materials remaining within the buildings and to address all contractor questions regarding the facilities, the services, and the bid process. Participation in the pre-bid meeting is a requirement for submission of a bid.
3. Answers to questions during the Pre-Bid Conference and Site Visit will not be considered official unless included within a follow up addendum. Contractors are encouraged to submit all questions in writing. All written questions will be answered and published, added to the bid documents by way of addendum.
4. All Pre-Bid Questions must be submitted in writing and emailed to brandon.taylor@skanska.com no later than 5:00 p.m. on August 11, 2023.

SECTION 02 82 13
ASBESTOS ABATEMENT

PART 1 – GENERAL

1.01 DESCRIPTION OF WORK:

The work includes the removal and disposal of friable and/or non-friable materials containing asbestos indicated and specified herein and the incidental procedures and equipment required to protect workers from contact with airborne asbestos fibers. The Contractor shall furnish all labor, materials, services, insurance and equipment required for the removal and disposal of asbestos-containing materials in accordance with the guidelines or regulations of the responsible state agency, the local agency, EPA or OSHA. The work includes, but is not necessarily limited to the following:

A. All preparation of the work areas and areas outside the work areas prior to beginning asbestos removal work.

B. Removal and disposal of all asbestos materials and waste materials contaminated with asbestos during the process of the work and any other debris generated by this project. Asbestos containing or contaminated material at **the old Sandlick Elementary School, Birchleaf, VA,** includes but may not be limited to the following:

- **Floor Tile and/or Black Mastic – Throughout Original Structure**
  (Includes 12”x12” Blue–Located in several rooms throughout original structure, 12”x12” White/Maroon–Library Storage, 12”x12” White/Tan–Break Room Area, 9”x9”–Tan – Second Floor)
- **Mastic Discs – Blackboards - ASSUMED**
- **Interior and Exterior Window Framing Caulk– Original Structure**
- **Exterior Cementitious Fascia Panels**
- **Asphalt Built-Up Roof Components**
  (These materials were observed and sampled under existing EPDM ballasted roof sections, but may also exist in other locations, such as under the original large roof area currently a fully adhered EPDM. To be verified by Contractor)
- **Ceiling Tile – 2x4 – Original Side of Structure - <1% ACM**
  (To be removed during abatement portion of the project but may be disposed of as NON-ACM construction debris)

DRAWING IS FOR INFORMATIONAL PURPOSES ONLY. LOCATIONS OF ACM ARE APPROXIMATE. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BID.

C. Complete cleaning and decontamination of all work areas and contents thereof.

1.02 TERMINOLOGY:

A. *Amended Water:* Water containing a wetting agent of surfactant.

B. *Asbestos Control Area:* An area where asbestos removal operations are performed which is isolated by physical boundaries to prevent the release of asbestos dust, fibers, or debris.

C. *Authorized Visitor:* The Owner's representative, or a representative of any regulatory or other agency having jurisdiction over the project.

D. *Friable Asbestos Material:* Material when dry, may be crumbled, pulverized or reduced to powder by hand pressure and includes previously non-friable material after such previously non-friable material becomes damaged to the extent that when dry may be crumbled, pulverized, or reduced to powder by hand pressure.

E. *HEPA Filter Equipment:* High-efficiency particulate air filtered vacuuming equipment with a filter system capable of collecting and retaining asbestos fibers. Filters shall be of 99.97 percent efficiency for retaining fibers of 0.3 microns or larger.

F. *Negative Pressure:* A local exhaust system capable of maintaining a minimum pressure differential of minus 0.02 inch of water column relative to adjacent unsealed areas.

G. *Non-friable Asbestos Material:* Material that contains asbestos 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 will not release fibers during any appropriate use, handling, demolition, storage, transportation, processing or disposal.

H. *Owner's Representative:* Person designated in the contract as authorized individual (or his designee) to represent and mediate for the Owner in administration of the Contract.

I. *Project Monitor:* One or more individuals employed by the Owner to inspect the Work and/or to act as clerk of the works to the extent required by the Owner. The Owner shall notify the Contractor in writing of the appointment of such Project Monitor(s).

J. *Surfactant:* A chemical wetting agent added to water to improve penetration, thus reducing the quality of water required for a given operation or area.

K. *Wet Cleaning:* The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning tools which have been dampened with water, and by afterwards disposing of these cleaning tools as asbestos-contaminated waste.

1.03 CONFORMANCE TO REGULATORY REQUIREMENTS:

A. In addition to detailed requirements of this specification, the contractor shall comply with laws, ordinances, rules, and regulations of federal, state, regional, and local authorities regarding handling, storing, transporting and disposing of asbestos waste materials. Comply with the applicable requirements of the current issue of the following regulatory agencies:

1. Title 29, Code of Federal Regulations, Section 1926.1101 (OSHA) Occupational Safety and Health Administration, U.S. Department of Labor and the Virginia Occupational Safety and Health Standards for Industry, Department of Labor and Industry Construction.
2. Title 40, Part 61, Subparts A and B. Regional National Emissions Standards for Hazardous Air Pollutants. (EPA) U.S. Environmental Protection Agency.
3. 40 CFR Part 763 Subpart E, Appendix D.

B. Submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting the work. Where the requirements of this specification and referenced documents vary, the most stringent requirement shall apply.

C. If required for Friable materials or materials that may become Friable, written notification shall be made to:

1. Department of Labor and Industry
Attn: Accounting/Finance
Main Street Centre, 600 East Main Street, Suite 207
Richmond, Virginia 23219

2. Asbestos Coordinator
USEPA Region III
Mail Code 3LC62, 1650 Arch Street
Philadelphia, PA 19103-2029

3. Notification shall be sent not later than 20 days prior to commencement of the work with a copy sent for the Owner's Representative. Notification shall be on a Form provided by the Commonwealth of Virginia, Department of Labor and Industry.

1.04 BUILDING PROTECTION:

The asbestos control area shall be maintained under negative pressure at all times of a minimum of .02 inches of water column relative to adjacent unsealed area. A minimum of 4 air changes per hour is required.

1.05 SUBMITTALS:

Submittals shall be made in accordance with procedures set forth in Section "Submittals."

A. Notification to Regulatory Agencies: Submit a copy of the notification of the proposed asbestos work as required under paragraph "Conformance to Regulatory Requirements."

B. Asbestos Plan: Submit a detailed plan of the work procedures to be used in the removal and demolition of materials containing asbestos. Such plan shall include interface of trades involved in the construction, sequencing of asbestos related work, disposal plan, type of wetting agent to be used, air monitoring, and a detailed description of the method to be employed in order to control pollution. Plan shall be approved prior to start of the work.

C. Testing Laboratory: Submit the name, address, telephone number, and copy of the VA Asbestos Laboratory License of the testing laboratory selected for the monitoring of the airborne concentrations of asbestos fibers along with certification that persons counting the samples have been judged proficient by successful participation in the National Institute for Occupational Safety and Health (NIOSH) Proficiency Analytical Testing (PAT) Program.

D. Disposal: Must comply with 40 CFR Part 763 Subpart E Appendix D

1. Submit evidence that all required permits for transport disposal of asbestos containing or contaminate materials, supplies, and the like have been obtained.

2. Submit certified copies from the operator of the asbestos disposal site that the asbestos has been received, within 30 days of removal, specifying quantities and dates of delivery.

E. Employee Qualification, Virginia Licensure Requirements:

1. Submit documentation indicating that all employees have had instruction on the hazards of asbestos exposure, on use and fitting of respirators, on protective dress, on use of showers, on entry and exit from work areas, and on all aspects of work procedures and protective measures, in accordance with OSHA and the EPA.

2. Submit documentation of each employee's asbestos medical examination.

F. Respirator Program: Submit a copy of the company's written respirator program in compliance with OSHA regulations. The Contractor shall have a copy of his written respirator program available on the job site at all times. Start job with appropriate respiratory protection based on a Negative Exposure Assessment (NEA) and ensure that fiber concentration inside mask does not exceed .01 fibers/cc. Use historic or objective data, documenting expected fiber count levels, to prove the proposed respiratory protection is adequate or an OSHA required Negative Exposure Assessment.

G. Submit a written Assured Equipment Grounding Program and a Lock Out and Tag Out Program. Provide proof that programs are in effect and being enforced.

H. Equipment: Submit manufacturer's certification that vacuums, ventilation equipment, and other equipment required to contain airborne fibers conform to ANSI 29.2-79.

I. Submit proof of valid Virginia asbestos licenses for contractor, supervisor and workers.

1.06 PERSONNEL PROTECTION:

A. Provide workers with personally issued and marked respiratory equipment in accordance with Paragraph "Equipment." Where respirators with disposable filters are employed, provide sufficient filters for replacement as required by the worker or applicable regulation.

B. Provide workers with sufficient sets of protective full-body clothing. Such clothing shall consist of full-body overalls and headgear, gloves and foot coverings. Provide hard hats as required by applicable safety regulations. Non-disposable-type protective clothing and footwear shall be left in the contaminated equipment room until the end of the abatement work, at which time such items shall be disposed of as asbestos waste, bagged and removed as asbestos-contaminated or shall be

thoroughly cleaned of all asbestos or asbestos-containing material. Disposable-type protective clothing, headgear, gloves and footwear will be provided.

C. Provide authorized visitors with suitable protective clothing, headgear, gloves, eye protection and footwear, as described herein, whenever they are required to enter the work area.

PART 2 – PRODUCTS

2.01 MATERIALS:

A. Sheeting: Polyethylene sheet, minimum 6 mils thick unless otherwise specified, in sizes to minimize the frequency of joints.

B. Tape: Glass fibers or other type capable of sealing joints of adjacent sheets of polyethylene sheets and for attachment of polyethylene sheet to finished or unfinished surfaces of dissimilar materials under both dry and wet conditions, including use of amended water.

C. Surfactant (Wetting Agent): Shall consist of 50-percent polyoxylethylene ether and 50 percent of polyoxylethylene or polyglycol ester, or equivalent and shall be mixed with water to provide a concentration of 1 ounce surfactant to 5 gallons of water.

D. Impermeable Containers: Containers shall be suitable to receive and retain any asbestos-containing or contaminated materials until disposable at an approved site. They may be in the form of polyethylene bags, sealed cardboard containers, or fiber drums. The containers shall be labeled in accordance with OSHA Regulation 29 CFR 1926.58, NESHAP 40 CFR Part 61, and DOT Regulations. Containers shall be both airtight and watertight.

2.02 EQUIPMENT:

A. Air-Handling Equipment: Equipment shall be a high-efficiency particulate air (HEPA) filtration system, equipped with filtration equipment in compliance with ANSI 29.2-79, and a monitoring device, known as a manometer, to continuously gauge and record negative pressure conditions. Manometer tape to be retained by Contractor for future reference by Owner if necessary. No air-movement system or air equipment shall discharge asbestos fibers outside the work area. Pressure shall be maintained at a minimum of -.02 inches of water column relative to adjacent unsealed areas. A minimum of 1 air change every 15 minutes will be required.

PART 3 – EXECUTION

3.01 PREPARATION OF WORK AREAS:

A. Provide temporary power sources and equipment per applicable electrical code requirements and provide 24-volt safety lighting and ground-fault interrupter circuits as power source for electrical equipment.

B. Seal off all openings considered to be “Critical Barriers”, including, but not limited to, corridors, doorways, skylights, ducts, grilles, diffusers, and any other penetrations of the work areas, with minimum 6 mil plastic sheeting sealed with tape. Doorways and corridors which will not be used for passage during work must be sealed with barriers as described in Paragraph "Decontamination Enclosure Systems."

C. Cover surfaces that aren’t being removed, with plastic sheeting sealed with tape. Using a layer of minimum 6-mil plastic sheeting. Cover floors in areas of ceiling tile removal where tile and mastic are not being removed. Exterior ACM, such as window framing, fascia panels and roof membranes, are to be removed using barrier tape on the building exterior a minimum of 10' from work area and ground cover. Workers are to don personal protective clothing and respiratory protection.

D. Maintain emergency and fire exits from the work areas, or establish alternative exits satisfactory to the applicable fire officials.

E. Provide 5.0-micron filters on all shower drains. Asbestos-contaminated waste water is to be placed in a sanitary sewer system after filtration through the 5.0 micron filter.

F. After preparation of the work areas and decontamination enclosure systems, remove Asbestos Containing Building Material as required.

3.02 DECONTAMINATION ENCLOSURE SYSTEMS:

A. Worker Decontamination Enclosure System: When necessary for removal of Friable materials, construct a worker decontamination enclosure system contiguous to the work area consisting of three, but in no case less than one, totally enclosed chambers and air locks as follows:

1. An equipment room with two curtained doors, one to the work area and one to the air lock.

2. Air lock with two curtained doors, one to equipment room and one to shower room.

3. A shower room with two curtained doorways, one to the air lock on work room side and one to the air lock on the clean room side. The shower room shall contain at least one shower with hot and cold or warm water. Careful attention shall be paid to the shower enclosure to ensure against leaking of any kind. Ensure a supply of liquid soap at all times in the shower room.

4. Air lock with two curtained doors, one to shower room and one to clean room.

5. A clean room with two curtained doors, one to the air lock on the shower side and one to the exterior. Clean room shall be constructed to meet or exceed requirements of OSHA Regulations.

6. Separation of Work Areas from Occupied Areas: Separate parts of the building required to remain in use from parts of the building that will undergo asbestos abatement by means of airtight barriers.

B. Maintenance of Enclosure Systems:

1. Ensure that barriers and plastic linings are effectively sealed and taped. Repair damaged barriers and remedy defects immediately upon discovery.

2. Visually inspect enclosures at the beginning of each work period.

3. Use smoke methods to test effectiveness of barriers when directed by the Project Monitor.

3.03 AIR MONITORING:

A. General Requirements:

1. Provide daily air monitoring both in and outside the work area throughout all asbestos stripping, removal and cleaning. Outside monitoring samples shall be taken by the Project Monitor.

2. Samples shall be collected by calibrated pumps whose flow rates can be determined to an accuracy of plus or minus 5%. Calibrate pumps with a representative filter in line.

3. Personal air monitoring shall be in compliance with 1926.1101 of the OSHA standards.

4. Analysis of samples shall be done in compliance with OSHA standards 1926.1101 by a competent trained person or laboratory.

5. The sampling schedule shall be posted outside of the containment area showing sample frequency, duration of the sample, and pump flow rates.

6. Results of all samples shall be posted outside of the containment area within 24 hours of collection, and maintained there until the job has been concluded. This data shall include the results of 8-hour TWA determinations. Posted results should include a synopsis of work activities of which the results are representative.

B. Air Monitoring by Contractor:

1. Throughout the removal and cleaning operations, personal air monitoring shall be conducted by a Testing Laboratory employed by the Contractor or by the Contractor's personnel. Air monitoring shall be performed to provide the following samples:

   a. work area environmental,
   b. personal breathing 8-hour TWA and excursion,

   Samples for air monitoring shall be collected by a competent person in accordance with methods prescribed in the Federal OSHA Industrial Hygiene Field Operations Manual or by equivalent.

2. The Contractor shall be responsible for personnel and environmental air monitoring samples taken inside the work compartment and all costs in connection with testing and air sampling shall be borne by the Contractor.

3. The Contractor shall determine the release of asbestos from any work or waste storage area is not taking place at concentrations higher than .01 actual fibers/cc.

4. All analytical results shall be presented as signed "Certificates of Analysis." Form shall state:

   a. date and time sampling began
   b. flow rate of samples

c. sampling time elapsed
d. concentration in fibers/cc
e. site/individual sampled
f. synopsis of work activities which sample was taken
g. name and signature of analysts

5. Two copies of analytical results shall be delivered in writing to the job site within 24 hours of sample collection (excluding non-working days). A copy of the results shall be submitted to the Project Monitor when received by the Contractor.

6. Analytical results indicating potential for a hazard higher than limits set forth in this section shall be reported immediately, by the most expeditious means possible, either telephone or carrier, to the Owner.

7. The Project Monitor shall inform the contractor immediately of any area samples outside the containment with results in excess of .01 fibers/cc actual.

8. Operations shall be discontinued immediately any time emissions are observed emanating from the work area.

9. Contractor will provide a written plan to the Owner stating steps to be undertaken to assure compliance with all regulations, including but not limited to the following:
   a. qualifications of personnel taking and analyzing samples
   b. containment procedures
   c. respirator program
   d. sampling strategy

3.04 ASBESTOS ABATEMENT:

A. Spray asbestos material with amended water, using spray equipment capable of providing a "mist" application to reduce the release of fibers. Saturate the material sufficiently to wet it to the substrate without causing excess dripping or delamination of the material. Spray the asbestos material repeatedly during work process to maintain wet condition and to minimize asbestos fiber dispersion.

B. Remove the saturated asbestos material in small sections. As it is removed, pack the material in sealable plastic bags of 6-mil minimum thickness and place in labeled containers or a second plastic bag of 6-mil minimum thickness for transport. If the Contractor chooses plastic bags for transport, the double-bag method of

containment will be used. Material shall not be allowed to dry out prior to insertion into the original sealable, plastic bag.

C. Seal filled containers. Place danger labels on containers in accordance with OSHA regulation 29 CFR 1926.58. Additional labeling indicating the name of the waste generator and the location where the waste was generated shall be affixed to each container in accordance with NESHAP regulation 40 CFR Part 61. Clean external surfaces of containers thoroughly by wet sponging in the designated area of the work area which is part of the equipment decontamination enclosure system. Move containers to washroom, wet clean each container thoroughly, and move to holding area pending removal by workers who have entered from uncontaminated areas dressed in clean coveralls. Ensure that workers do not enter from uncontaminated areas into the washroom or the work area; ensure that contaminated workers do not exit the work area through the equipment decontamination enclosure system.

D. After completion of stripping work, all surfaces from which asbestos has been removed or contaminated shall be wire brushed and/or wet sponged or cleaned by an equivalent method to remove all visible material. During this work, the surfaces being cleaned shall be kept wet.

3.05 GLOVE BAG REMOVAL:

A. All glove bag work will be performed within a controlled area. The controlled area is established by installing critical barriers of minimum 6-mil poly over any doors or other openings as needed. Negative air is to be maintained in this controlled area at all times from initial disturbance of material until final clearance is certified. The use of a negative air glove bag will not preclude this requirement.

B. Attach glove bag to pipe with ends and top seam securely taped. Leave enough slack in bag so that bag can be lifted at least 3 inches above pipe at center of attached length.

C. Have all tools needed for removal inside bag, prior to attachment of bag.

D. Insert and seal hoses for HEPA vac and amended water sprayer.

E. One person sprays amended water and controls HEPA vac hose while other person removes insulation and cleans pipe.

F. Place tools into glove, pull to outside, and double-tie glove for tool removal. Cut between ties.

G. After all insulation is removed and pipe cleaning is finished, continue to ventilate the bag for 3 minutes. Adjust airflow to allow full bag venting.

H. Remove the HEPA vac and water hoses and seal openings.

I. While vacuuming along the top seal of the bag, remove the bag, twist the top and seal with tape with the top doubled down.

J. Place sealed glove bag into labeled asbestos disposal bag and seal.

K. Plastic floor drop cloth and wall poly may be moved as needed, provided that no visible contamination has accumulated. If any contamination exists or job is completed, this poly is to be properly double-bagged and disposed of as asbestos waste.

3.06 CLEANUP:

A. Remove visible accumulations of asbestos material and debris. Wet clean all surfaces within the work area.

B. The windows and doors shall remain sealed and any HEPA-filtered negative air pressure systems, air filtration, and decontamination enclosure systems shall remain in service until final clearance is certified.

C. Clean all surfaces in the work area and any other contaminated areas with water and/or with HEPA-filtered vacuum equipment all surfaces in the work area. After completion of the second cleaning operation, perform a complete visual inspection of the work area to ensure that the work area is free of visible asbestos debris.

D. Sealed drums and all equipment used in the work area shall be included in the cleanup and shall be removed from work areas, via the equipment decontamination enclosure system, at an appropriate time in the cleaning sequence. The transport vehicle shall be lined with two layers of minimum 6-mil. polyethylene sheeting.

E. If the Project Monitor, within 24 hours, finds visible accumulations of asbestos debris in the work area, the Contractor shall repeat the wet cleaning until the work area is in compliance, at the Contractor's expense.

F. Final air samples will be taken by the Virginia Licensed Project Monitor and certify not to exceed .01 f/cc using the NIOSH 7400 PCM method of analysis. If the final air samples do not meet acceptable standards, the Contractor shall be held responsible for the cost of subsequent air samples. Aggressive air sampling will be

required on this project. All exits, vents, and critical barriers shall remain sealed and negative air machines will remain on until final clearance is certified. A visual inspection will be performed by the Project Monitor at completion of exterior ACM being abated.

G. Contractor shall provide necessary electrical outlets for air clearance equipment.

3.07 DISPOSAL:

Comply with 40 CFR PART 763 SUBPART E APPENDIX D, NESHAPS, the Virginia Department of Environmental Quality, the Virginia Department of Waste Management and the Virginia Department of Transportation.

A. Disposal of Asbestos-Containing Materials and Asbestos-Contaminated Waste: As the work progresses and to prevent exceeding available storage capacity on site, remove sealed and labeled containers of asbestos waste and dispose of such containers at an authorized disposal site in accordance with the requirements of disposal authority. Submit documentation regarding disposal to Owner within 30 days of removal.

B. Procedure for hauling and disposal shall comply with 40 CFR 61 (Sub-part B), state, regional, and local standards. If drums are chosen as the container for the disposal bags, the bags will be removed by hand from drums into the burial site unless the bags have been broken or damaged. Damaged bags shall remain in the drum and the entire contaminated drum shall be buried. Uncontaminated drums may be recycled. If the double bag method of containment was used, the entire waste package shall be hand placed into the burial site. Workers shall wear appropriate respirators and personal protective equipment when handling asbestos materials at the jobsite and at the disposal site.

END OF SECTION 02 82 13

BID FORM

Project Identification: **DEMOLITION AND REMOVAL OF DEBRIS: SANDLICK ELEMENTARY SCHOOL**

General Project Scope:

Demolition of demolition of Sandlick Elementary School and associated structures to include fieldhouse, wood structure and pump station, field goal posts, ticket booth, picnic shelter, and outbuilding. Scope includes abatement of hazardous materials.

Article 1 - Bid Recipient

1.01 This Bid is to be submitted to:

Dickenson County School Board
Attn: Haydee Robinson, Division Superintendent
309 Volunteer Avenue
Clintwood, VA 24228

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into a Contract with Owner in the form included in the Bidding Documents to perform all work as specified or indicated in the Bidding Documents for the prices and within the times indicated in the Bid and in accordance with the other terms and conditions of the Bidding Documents.

Article 2 - Bidder's Acknowledgements

2.01 Bidder accepts all of the terms and conditions of the Advertisement for Bids and Instructions to Bidders, including and without limitations those dealing with the dispositions of Bid security. The Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that the Bidder may agree to in writing upon request of Owner. Bidder will sign and deliver the required number of counterparts of the Contract with the Bonds and other documents required by the Bidding Requirements within fifteen (15) days after the Owner's Notice of Award.

2.02 Contractor shall be responsible for furnishing all items, described or implied, and required for proper completion of the work. Contractor shall also be responsible for directing and coordinating the various parts of the work so that no part shall be left in an unfinished or incomplete condition.

Article 3 - Bidder's Representations

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents and the following Addenda, receipt of which is hereby acknowledged.

Addendum No.	Addendum Date
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

B. Bidder has visited the site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and is satisfied as to all Federal, State, and local laws and regulations that may affect cost, progress, and performance of the Work.

D. Bidder has carefully studied all reports of a hazardous environmental condition, if any, identified in the Bidding Documents.

E. Bidder has obtained and carefully studied (or accepts the consequences for not doing so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and underground facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to the means, methods, techniques, sequences, and procedures of construction to be employed by the Bidder, including application of the specific means, methods, techniques, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times in accordance with the other terms and conditions of the Bidding Documents.

G. Bidder is aware of the general nature of the Work to be performed by Owner and others, if any, at the sites that relate to the Work as indicated in the Bidding Documents.

H. Bidder has correlated the information known to the Bidder, information and observations obtained from visits to the Site, reports identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.

I. Bidder has given Owner written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Owner is acceptable to Bidder.

J. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

K. Bidder will submit written evidence of its authority to do business in the State of Virginia not later that the date of its execution of the Contract.

Article 4 - Further Representations

4.01 Bidder further represents that:

A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation;

B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;

C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and

D. Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.

Article 5 – Bid Amount

BASE BID: COMPLETE ALL ITEMS FOR DEMOLITION AND REMOVAL OF DEBRIS – SANDLICK ELEMENTARY SCHOOL. LUMP SUM PRICE:

_____

_____

DOLLARS ($_____).

Bids shall be LUMP SUM and shall include ALL WORK necessary to complete the project to the full intent of the Contract Documents. In the event of additions or deductions to the work required by the Contract Documents, the Contractor will be paid extra or shall credit the Owner, as the case may be, on the basis of the unit prices quoted herein. Prices shall include all overhead, profit, labor, materials, equipment and incidental work and shall be the sum total compensation payable or creditable for such items of work in place. Any and all unit prices established for the project shall be good for the duration of the contract.

Article 6 - Time of Completion

6.01 Bidder agrees that the Base Bid Work will be substantially complete within 90 calendar days and final completion within 15 calendar days of the date that the Owner issues a Notice to Proceed.

6.02 Bidder accepts the provisions of the Contract as to actual damages in the event of failure to complete the Work with the Contract Times.

Article 7 - Attachments to this Bid

The following documents are attached to and made a condition of the Bid:

A. Required Bid security in the form of a Bid Bond (AIA Document A310-2010) or Certified Check in the amount of 5% of the bid amount
B. Contractor's Qualification Statement (AIA Document A305-2020)

Article 8 - Defined Terms

8.01 The terms used in this Bid which are defined in Section 1 of the General Conditions will have the meanings assigned to them in the General Conditions.

Article 9 - Bid Submittal

9.01 This Bid is submitted by:

An Individual

Name (typed or printed): _____

SEAL, If required By State

By: _____
(Individual's signature)

Doing business as: _____

A Partnership

Partnership Name:_____

By: _____
(Signature of general partner –attach evidence of authority to sign)

Name (typed or printed): _____

A Corporation

Corporation Name: _____

State of Incorporation: _____

Type (General Business, Profession, Service, Limited Liability): _____

By: _____
(Signature – attach evidence of authority to sign)

Name (typed or printed): _____

Title:_____

CORPORATE SEAL, If required By State

Attest _____
(Signature of Corporate Secretary)

Date of Qualification to do business in _____ [State where Project is located] is ____/____/_____

A Joint Venture

Name of Joint Venture: _____

SEAL, If required By State

First Joint Venture Name: _____

By: _____
(Signature of joint venture partner –attach evidence of authority to sign)

Name (typed or printed): _____

SEAL, If required By State

Title:_____

Second Joint Venture Name: _____
(Signature of Corporate Secretary)

By: _____
(Signature of joint venture partner –attach evidence of authority to sign)

Name (typed or printed): _____

Title:_____

(Each joint venture must sign. The manner of signing for each individual, partnership, and corporation that is party to the venture should be in the manner indicated above.)

Bidder's Business address:

_____

_____

Business Phone No. ( ) _____

Business FAX No. ( ) _____

Business E-Mail Address _____

State Contractor License No. _____. (If applicable)

Employer's Tax ID No. _____

Phone and FAX Numbers, and Address for receipt of official communications, if different from Business contact information:

_____

_____

9.02 Bid submitted on _____, 2023.

EXHIBIT A - AERIAL MAP, PHOTOGRAPHS AND NOTES

Imagery ©2023 CNES / Airbus, Commonwealth of Virginia, Maxar Technologies, USDA/FPAC/GEO, Map data ©2023 100 ft

Main School Structure

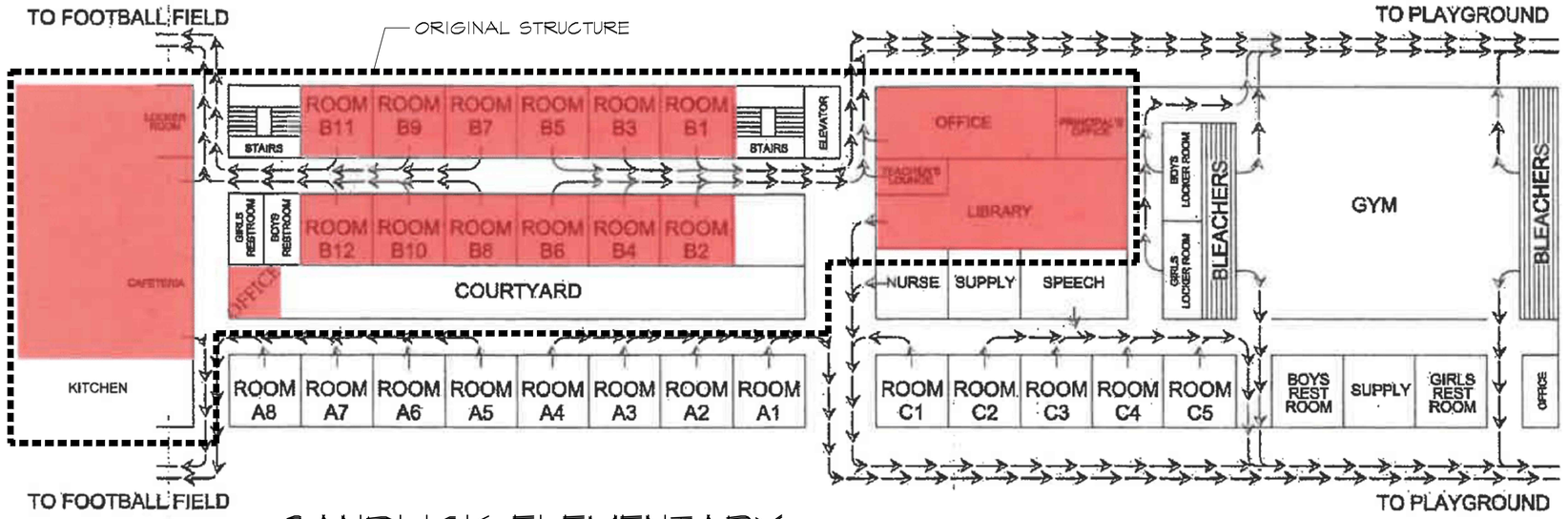
Outbuilding

Ticket Booth

Fieldhouse and Pump Station

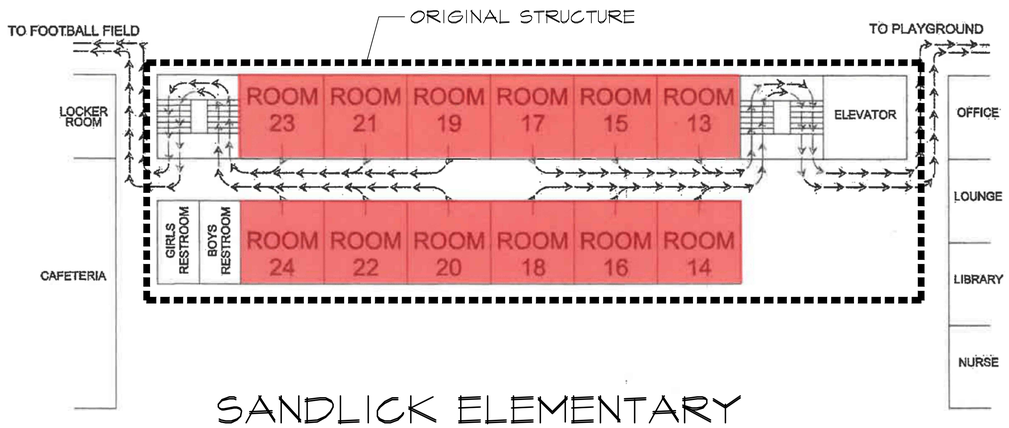
Field Goal Post (two total, one not pictured)

EXHIBIT B



SANDLICK ELEMENTARY
FIRST FLOOR PLAN

SCALE: NOT TO SCALE



SANDLICK ELEMENTARY
SECOND FLOOR PLAN

SCALE: NOT TO SCALE

ABATEMENT NOTES:

1) INDICATES ACM FLOOR TILE/MASTIC.
2) INTERIOR & EXTERIOR WINDOW FRAMING IN ORIGINAL STRUCTURE ACM.
3) BLACKBOARD MASTIC IN ORIGINAL STRUCTURE ASSUMED TO BE ACM.
4) ASPHALT BUILT UP ROOF IN ORIGINAL ROOF SECTIONS ACM.
5) FASCIA PANELS ON ENTIRE STRUCTURE ACM.
6) 2x4 CEILING TILE IN ORIGINAL STRUCTURE < 1%.

HDH Technical, Inc.
400 West Main Street Christiansburg, Virginia 24073
www.hdhassociates.com (540) 381-7999

DESIGNED BY: HDH | DRAWN BY: HDH | CHECKED BY: HDH
DATE: JULY 18, 2023 | COMMISSION NUMBER: 1000 - 231661
PROJECT CODE #: | BCOM PROJECT CODE #:

DATE: REVISIONS

FIRST & SECOND FLOOR PLANS & NOTES

SANDLICK ELEMENTARY SCHOOL
ASBESTOS ABATEMENT PROJECT

BIRCHLEAF VIRGINIA

R-1

SHEET 1 OF 1

HDHT Technical, Inc.
Environmental & Industrial Hygiene Services

P.O. Box 6158,
Christiansburg, VA 24073

Office: (540) 381-7999
www.best-hdht.com

Solutions for all your Environmental and OSHA Concerns

February 14, 2022

Asbestos Inspection Report

Project Location:

Sandlick Elementary School
Birchleaf, Virginia

Prepared For:

Dickenson County Public Schools
P.O. Box 1172, Volunteer Ave
Clintwood, VA 24228

Prepared By:

Jared Crowder
Asbestos Inspector

Fred Danner
Asbestos Inspector

TABLE OF CONTENTS

SCOPE OF WORK

HDH Technical, Inc. was contracted by Dickenson County Public Schools to provide an asbestos inspection at Sandlick Elementary School located in Birchleaf, Virginia. The inspection was conducted by personnel trained and licensed in accordance with the regulations of the Environmental Protection Agency (EPA) and the Commonwealth of Virginia. This inspection was performed using current EPA AHERA standards. This protocol was used for the determination, sampling and analysis of suspected Asbestos Containing Materials (ACM).

ASBESTOS INSPECTION

An inspection of the structure called Sandlick Elementary School was performed February 4, 2022 by representatives of HDHT. The objective of this inspection was to determine the location of suspect asbestos-containing materials (ACM) currently located on the interior or exterior of this structure that may be disturbed by upcoming demolition activities.

The roofing materials of this structure were not sampled and are not included in this report.

As the sample summary indicates, the following suspect materials sampled were reported to be asbestos containing by the laboratory:

- Floor Tile – 12"x12" – Blue – Located in several rooms throughout original structure
- Floor Tile – 12"x12" – White/Maroon – Library Storage
- Floor Tile – 12"x12" – White/Tan – Break Room Area
- Floor Tile – 9"x9" – Tan – Second Floor
- All Black Floor Tile Mastic – Located throughout original structure
- Interior and Exterior Window Framing Caulk– Original Structure
- Cementitious Fascia Panels

The Following Materials were ASSUMED to be asbestos containing:

- Mastic Discs – Blackboards

These NON-Friable asbestos containing materials should be removed prior to demolition activities at this location. Removal should be performed by licensed, contract personnel using approved methods.

Friable Asbestos Material: Material when dry, may be crumbled, pulverized or reduced to powder by hand pressure and includes previously non-friable material after such previously non-friable material becomes damaged to the extent that when dry is may be crumbled, pulverized, or reduced to powder by hand pressure.

Non-friable Asbestos Material: Material that contains asbestos 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 will not release fibers during any appropriate use, handling, demolition, storage, transportation, processing or disposal.

ASBESTOS LESS THAN 1%

For informational purposes, the following suspect material was reported to contain asbestos at < 1%. Although not considered an Asbestos Containing Material (> 1%), this information should be provided to all contract personnel prior to restoration/demolition activities for their use in meeting current OSHA requirements pertaining to personnel disturbing this material:

- **Ceiling Tile – 2x4 – Original Side of Structure**

This information should be provided to all contract personnel for their use in meeting current OSHA requirements. Every attempt was made to gain access to all areas or to assess representative materials entering or leaving the area. HDH Technical, Inc. accepts no liability nor makes any claims regarding ACBM which was not accessible during the inspection process if such material was located behind or within walls, concrete decks, subfloors, or was generally inaccessible without destructive sampling. If any additional suspect materials are identified during the course of the project, the contractor is to immediately stop work and contact the Owner for further direction.

Sample Summary

Sandlick Elementary School

LAB #	SAMPLE ID	SAMPLE DESCRIPTION	RESULT	%
22005986 -001	FT 1.1	Floor Tile - 12x12 - Rose - Office	ND	-
22005986 -002	FT 1.2	Floor Tile - 12x12 - Rose - Office	ND	-
22005986 -003	TM 2.1	Tile Mastic - On FT 1	ND	-
22005986 -004	TM 2.2	Tile Mastic - On FT 1	ND	-
22005986 -005	BM 3.1	Baseboard Mastic - Rose Baseboard - Office	ND	-
22005986 -006	BM 3.2	Baseboard Mastic - Rose Baseboard - Office	ND	-
22005986 -007	CT 4.1	Ceiling Tile - 2x4 - Long Squiggles/Pinholes	ND	-
22005986 -008	CT 4.2	Ceiling Tile - 2x4 - Long Squiggles/Pinholes	ND	-
22005986 -009	CT 4.3	Ceiling Tile - 2x4 - Long Squiggles/Pinholes	ND	-
22005986 -010	CT 4.4	Ceiling Tile - 2x4 - Long Squiggles/Pinholes	ND	-
22005986 -011	CT 4.5	Ceiling Tile - 2x4 - Long Squiggles/Pinholes	ND	-
22005986 -012	CT 5.1	Ceiling Tile - 2x4 - Smooth - Restrooms/Hall	ND	-
22005986 -013	CT 5.2	Ceiling Tile - 2x4 - Smooth - Restrooms/Hall	ND	-
22005986 -014	CT 5.3	Ceiling Tile - 2x4 - Smooth - Restrooms/Hall	ND	-
22005986 -015	CT 6.1	Ceiling tile - 2x4 - Small Squiggles/Pinholes - Restrooms	ND	-
22005986 -016	CT 6.2	Ceiling tile - 2x4 - Small Squiggles/Pinholes - Restrooms	ND	-
22005986 -017	CT 6.2	Ceiling tile - 2x4 - Small Squiggles/Pinholes - Restrooms	ND	-
22005986 -018	PW 7.1	Pipe Wrap	ND	-
22005986 -019	PW 7.2	Pipe Wrap	ND	-
22005986 -020	PW 7.3	Pipe Wrap	ND	-
22005986 -021	ES 8.1	End Sealer	ND	-
22005986 -022	ES 8.2	End Sealer	ND	-
22005986 -023	ES 8.3	End Sealer	ND	-
22005986 -024	EJ 9.1	Expansion Joint - Gym	ND	-
22005986 -025	EJ 9.2	Expansion Joint - Gym	ND	-
22005986 -026	BM 10.1	Baseboard Mastic - 5" Baseboard - Gym	ND	-
22005986 -027	BM 10.2	Baseboard Mastic - 5" Baseboard - Gym	ND	-
22005986 -028	BM 11.1	Baseboard Mastic - Behind BM 10	ND	-
22005986 -029	BM 11.2	Baseboard Mastic - Behind BM 10	ND	-
22005986 -030	DF 12.1	Interior Door Framing	ND	-
22005986 -031	DF 12.2	Interior Door Framing	ND	-
22005986 -032	CM 13.1	Construction Mastic - Basketball Goals - Gym	ND	-

ND = NONE DETECTED | NA = NOT ANALYZED POSITIVE STOP | ■ = CHRYSOTILE | ▲ = AMOSITE | ◉ = OTHER

Sandlick Elementary School

LAB #	SAMPLE ID	SAMPLE DESCRIPTION	RESULT	%
22005986 -033	CM 13.2	Construction Mastic - Basketball Goals - Gym	ND	-
22005986 -034	FT 14.1	Floor Tile - 12x12 - White w/ Gray - Hall/Classrooms	ND	-
22005986 -035	FT 14.2	Floor Tile - 12x12 - White w/ Gray - Hall/Classrooms	ND	-
22005986 -036	TM 15.1	Tile Mastic - On FT 14	ND	-
22005986 -037	TM 15.2	Tile Mastic - On FT 14	ND	-
22005986 -038	BM 16.1	Baseboard Mastic - Tan Baseboard	ND	-
22005986 -039	BM 16.2	Baseboard Mastic - Tan Baseboard	ND	-
22005986 -040	CK 17.1	Caulk - On Baseboard	ND	-
22005986 -041	CK 17.2	Caulk - On Baseboard	ND	-
22005986 -042	FT 18.1	Floor Tile - 12x12 - White w/ Tan	ND	-
22005986 -043	FT 18.2	Floor Tile - 12x12 - White w/ Tan	ND	-
22005986 -044	TM 19.1	Tile Mastic - On FT 18	ND	-
22005986 -045	TM 19.2	Tile Mastic - On FT 18	ND	-
22005986 -046	WF 20.1	Window Framing - Classrooms	ND	-
22005986 -047	WF 20.2	Window Framing - Classrooms	ND	-
22005986 -048	FT 21.1	Floor Tile - 12x12 - Gray	ND	-
22005986 -049	FT 21.2	Floor Tile - 12x12 - Gray	ND	-
22005986 -050	TM 22.1	Tile Mastic - On FT 21	ND	-
22005986 -051	TM 22.2	Tile Mastic - On FT 21	ND	-
22005986 -052	BF 23.1	Block Fill	ND	-
22005986 -053	BF 23.2	Block Fill	ND	-
22005986 -054	SR 24.1	Sheetrock - Locker Rooms	ND	-
22005986 -055	SR 24.2	Sheetrock - Locker Rooms	ND	-
22005986 -056	SR 24.3	Sheetrock - Locker Rooms	ND	-
22005986 -057	JC 24.1	Joint Compound - Locker Rooms	ND	-
22005986 -058	JC 25.2	Joint Compound - Locker Rooms	ND	-
22005986 -059	JC 25.3	Joint Compound - Locker Rooms	ND	-
22005986 -060	FT 26.1	Floor Tile - 12x12 - White w/ Tan	ND	-
22005986 -061	FT 26.2	Floor Tile - 12x12 - White w/ Tan	ND	-
22005986 -062	TM 27.1	Tile Mastic - On FT 26	ND	-
22005986 -063	TM 27.2	Tile Mastic - On FT 26	ND	-
22005986 -064	LN 28.1	Linoleum - Classroom Restrooms - Rose Pebble	ND	-

ND = NONE DETECTED | NA = NOT ANALYZED POSITIVE STOP | ■ = CHRYSOTILE | ▲ = AMOSITE | ◉ = OTHER

Sandlick Elementary School

LAB #	SAMPLE ID	SAMPLE DESCRIPTION	RESULT	%
22005986 -065	LN 28.2	Linoleum - Classroom Restrooms - Rose Pebble	ND	-
22005986 -066	CK 29.1	Caulk - Courtyard Windows	ND	-
22005986 -067	CK 29.2	Caulk - Courtyard Windows	ND	-
22005986 -068	FT 30.1	Floor Tile - 12x12 - Gray	ND	-
22005986 -069	FT 30.2	Floor Tile - 12x12 - Gray	ND	-
22005986 -070	TM 31.1	Tile Mastic - On FT 30	ND	-
22005986 -071	TM 31.2	Tile Mastic - On FT 30	ND	-
22005986 -072	DF 32.1	Door Framing - Courtyard Door	ND	-
22005986 -073	DF 32.2	Door Framing - Courtyard Door	ND	-
22005986 -074	EJ 33.1	Expansion Joint - Floor	ND	-
22005986 -075	EJ 33.2	Expansion Joint - Floor	ND	-
22005986 -076	BM 34.1	Baseboard Mastic - Old Side	ND	-
22005986 -077	BM 34.2	Baseboard Mastic - Old Side	ND	-
22005986 -078	EM 35.1	Elbow Mud - Roof Drains	ND	-
22005986 -079	EM 35.2	Elbow Mud - Roof Drains	ND	-
22005986 -080	EM 35.3	Elbow Mud - Roof Drains	ND	-
22005986 -081	FT 36.1	Floor Tile - 12x12 - Blue	■	2%
22005986 -081	FT 36.2	Floor Tile - 12x12 - Blue	■	2%
22005986 -082	TM 37.1	Tile Mastic - On FT 36	■	4%
22005986 -083	TM 37.2	Tile Mastic - On FT 36	■	4%
22005986 -084	CT 38.1	Ceiling Tile - 2x4 - Deep Squiggles - Old Side	■	<1%
22005986 -085	CT 38.2	Ceiling Tile - 2x4 - Deep Squiggles - Old Side	■	<1%
22005986 -086	Ct 38.3	Ceiling Tile - 2x4 - Deep Squiggles - Old Side	■	<1%
22005986 -087	PW 39.1	Plaster Wall	ND	-
22005986 -088	PW 39.2	Plaster Wall	ND	-
22005986 -089	PW 39.3	Plaster Wall	ND	-
22005986 -090	VD 40.1	Vibration Dampener	ND	-
22005986 -091	VD 40.2	Vibration Dampener	ND	-
22005986 -092	PM 414.1	Pipe Mastic	ND	-
22005986 -093	PM 41.2	Pipe Mastic	ND	-
22005986 -094	ES 42.1	End Sealer	ND	-
22005986 -095	ES 42.2	End Sealer	ND	-

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Sandlick Elementary School

LAB #	SAMPLE ID	SAMPLE DESCRIPTION	RESULT	%
22005986 -096	ES 42.3	End Sealer	ND	-
22005986 -097	EM 43.1	Elbow Mud	ND	-
22005986 -098	EM 43.2	Elbow Mud	ND	-
22005986 -099	EM 43.3	Elbow Mud	ND	-
22005986 -100	SC 44.1	Stage Curtain	ND	-
22005986 -101	SC 44.2	Stage Curtain	ND	-
22005986 -102	WG 45.1	Window Glazing - Restrooms	ND	-
22005986 -103	WG 45.2	Window Glazing - Restrooms	ND	-
22005986 -104	WF 46.1	Window Framing - Classrooms - Old Side	■	2%
22005986 -105	WF 46.2	Window Framing - Classrooms - Old Side	■	2%
22005986 -106	FT 47.1	Floor Tile - 12x12 - White	ND	-
22005986 -107	Ft 47.2	Floor Tile - 12x12 - White	ND	-
22005986 -108	TM 48.1	Tile Mastic - On FT 47	■	2%
22005986 -109	TM 48.2	Tile Mastic - On FT 47	■	2%
22005986 -110	CT 49.1	Ceiling Tile - 2x4 - Long Squiggles	ND	-
22005986 -111	CT 49.2	Ceiling Tile - 2x4 - Long Squiggles	ND	-
22005986 -112	CT 49.3	Ceiling Tile - 2x4 - Long Squiggles	ND	-
22005986 -113	FT 50.1	Floor Tile - 12x12 - White - Elevator	ND	-
22005986 -114	FT 50.2	Floor Tile - 12x12 - White - Elevator	ND	-
22005986 -115	TM 51.1	Tile Mastic - On FT 50	ND	-
22005986 -116	TM 51.2	Tile Mastic - On FT 50	ND	-
22005986 -117	FT 52.1	Floor Tile - 9x9 - Tan - 2nd Floor	■	3%
22005986 -118	FT 52.2	Floor Tile - 9x9 - Tan - 2nd Floor	■	3%
22005986 -119	TM 53.1	Tile Mastic - On FT 52	■	2%
22005986 -120	TM 53.2	Tile Mastic - On FT 52	■	2%
22005986 -121	WG 54.1	Window Glazing - 2nd Floor	ND	-
22005986 -122	WG 54.2	Window Glazing - 2nd Floor	ND	-
22005986 -123	CK 55.1	Caulk - Sink - 2nd Floor	ND	-
22005986 -124	CK 55.2	Caulk - Sink - 2nd Floor	ND	-
22005986 -125	CM 56.1	Construction Mastic - Walls - 2nd Floor	ND	-
22005986 -126	CM 56.2	Construction Mastic - Walls - 2nd Floor	ND	-
22005986 -127	ST 57.1	Stair Tread	ND	-

ND = NONE DETECTED | NA = NOT ANALYZED POSITIVE STOP | ■ = CHRYSOTILE | ▲ = AMOSITE | ◉ = OTHER

Sandlick Elementary School

LAB #	SAMPLE ID	SAMPLE DESCRIPTION	RESULT	%
22005986 -128	ST 57.2	Stair Tread	ND	-
22005986 -129	TM 58.1	Tread Mastic	ND	-
22005986 -130	TM 58.2	Tread Mastic	ND	-
22005986 -131	FT 59.1	Floor Tile - 12x12 - White w/ Red - Library Storage	■	2%
22005986 -132	FT 59.2	Floor Tile - 12x12 - White w/ Red - Library Storage	■	2%
22005986 -133	TM 60.1	Tile Mastic - On FT 59	■	4%
22005986 -134	TM 60..2	Tile Mastic - On FT 59	■	4%
22005986 -135	FT 61.1	Floor Tile - 12x12 - White w/ Tan - Break Room Hall	■	2%
22005986 -136	FT 61.2	Floor Tile - 12x12 - White w/ Tan - Break Room Hall	■	2%
22005986 -137	TM 62.1	Tile Mastic - On FT 61	■	<1%
22005986 -138	TM 62.2	Tile Mastic - On FT 61	■	2%
22005986 -139	TS 63.1	Transite Panel	■	20%
22005986 -140	TS 63.2	Transite Panel	■	20%
22005986 -141	LG 64.1	Louver Gasket	ND	-
22005986 -142	LG 64.2	Louver Gasket	ND	-
22005986 -143	WF 65.1	Exterior Window Framing	■	2%
22005986 -144	WF 65.2	Exterior Window Framing	■	2%

ND = NONE DETECTED | NA = NOT ANALYZED POSITIVE STOP | ■ = CHRYSOTILE | ▲ = AMOSITE | ◉ = OTHER

Laboratory Report

SanAir Technologies Laboratory
1551 Oakbridge Drive Suite B
Powhatan, VA 23139
804-807-1177 / 888-895-1175
Fax 804-897-0070
www.sanair.com

Asbestos Chain of Custody

SanAir ID Number: 22005986

Company: HDH Technical, Inc	Project #:	Collected by: Danner	
Address: 1305 Radford Street	Project Name: Sandlick Elementary School	Phone #: 540-381-7999	
City, St, Zip: Christiansburg, VA 24073	Date Collected: 2/4/2022	Email:	rliebal@hdhassociates.com
State of Collection: VA Account #: 1769	P.O. Number:	Email:	fdanner@hdhassociates.com

Bulk

ABB	PLM EPA 600/R-93/116	X
	Positive Stop	
ABEPA	PLM EPA 400 Point Count	
ABB1K	PLM EPA 1000 Point Count	
ABBEN	PLM EPA NOB	
ABBCH	TEM Chatfield	
ABBTM	TEM EPA NOB	

Air

ABA	PCM NIOSH 7400	
ABA-2	OSHA w/ TWA*	
ABTEM	TEM AHERA	
ABATN	TEM NIOSH 7402	
ABT2	TEM Level II	

Soil/Vermiculite

ABSE	PLM EPA 600/R-93/116 (Qual.)	
ABSP	PLM CARB 435 (LOD <1%)	
ABSP1	PLM CARB 435 (LOD 0.25%)	
ABSP2	PLM CARB 435 (LOD 0.1%)	

Water

ABHE	EPA 100.2	

New York ELAP

PLM NY	PLM EPA 600/M4-82-020	
ABEPA2	NY ELAP 198.1	
ABENY	NY ELAP 198.6 PLM NOB	
ABBNY	NY ELAP 198.4 TEM NOB	

Dust

ABWA	TEM Wipe ASTM D-6480	
ABDMV	TEM Microvac ASTM D-5755	

Matrix	Other	

Turn Around Times	3 HR (4 HR TEM)	6 HR (8HR TEM)	12 HR	24 HR
	2 Days	3 Days	4 Days	5 Days

Special Instructions:

SAMPLE ID	SAMPLE DESCRIPTION
FT 1.1	Floor Tile - 12x12 - Rose - Office
FT 1.2	Floor Tile - 12x12 - Rose - Office
TM 2.1	Tile Mastic - On FT 1
TM 2.2	Tile Mastic - On FT 1
BM 3.1	Baseboard Mastic - Rose Baseboard - Office
BM 3.2	Baseboard Mastic - Rose Baseboard - Office
CT 4.1	Ceiling Tile - 2x4 - Long Squiggles/Pinholes
CT 4.2	Ceiling Tile - 2x4 - Long Squiggles/Pinholes
CT 4.3	Ceiling Tile - 2x4 - Long Squiggles/Pinholes
CT 4.4	Ceiling Tile - 2x4 - Long Squiggles/Pinholes
CT 4.5	Ceiling Tile - 2x4 - Long Squiggles/Pinholes

Special Instructions

Relinquished by	Date	Time	Received by	Date	Time
Danner	2/7/2022	1:30 PM	UPS	2/7/2022	1:30 PM
			BCN	020922	10:20AM

Unless scheduled, the turn around time for all samples received after 3 pm EST Friday will begin at 8 am Monday morning. Weekend or Holiday work must be scheduled ahead of time and is charged for rush turn around time. Work with standard turn around time sent Priority Overnight and Billed to Recipient will be charged a $10 shipping fee.

SAH 2/9/22 11:48am

22005986

SAMPLE ID	SAMPLE DESCRIPTION
CT 5.1	Ceiling Tile - 2x4 - Smooth - Restrooms/Hall
CT 5.2	Ceiling Tile - 2x4 - Smooth - Restrooms/Hall
CT 5.3	Ceiling Tile - 2x4 - Smooth - Restrooms/Hall
CT 6.1	Ceiling tile - 2x4 - Small Squiggles/Pinholes - Restrooms
CT 6.2	Ceiling tile - 2x4 - Small Squiggles/Pinholes - Restrooms
CT 6.2	Ceiling tile - 2x4 - Small Squiggles/Pinholes - Restrooms
PW 7.1	Pipe Wrap
PW 7.2	Pipe Wrap
PW 7.3	Pipe Wrap
ES 8.1	End Sealer
ES 8.2	End Sealer
ES 8.3	End Sealer
EJ 9.1	Expansion Joint - Gym
EJ 9.2	Expansion Joint - Gym
BM 10.1	Baseboard Mastic - 5" Baseboard - Gym
BM 10.2	Baseboard Mastic - 5" Baseboard - Gym
BM 11.1	Baseboard Mastic - Behind BM 10
BM 11.2	Baseboard Mastic - Behind BM 10
DF 12.1	Interior Door Framing
DF 12.2	Interior Door Framing
CM 13.1	Construction Mastic - Basketball Goals - Gym
CM 13.2	Construction Mastic - Basketball Goals - Gym
FT 14.1	Floor Tile - 12x12 - White w/ Gray - Hall/Classrooms
FT 14.2	Floor Tile - 12x12 - White w/ Gray - Hall/Classrooms
TM 15.1	Tile Mastic - On FT 14
TM 15.2	Tile Mastic - On FT 14
BM 16.1	Baseboard Mastic - Tan Baseboard

Special Instructions	

Relinquished by	Date	Time	Received by	Date	Time
Danner	2/7/2022	1:30 PM	FedEx	2/7/2022	1:30 PM
			BEN	020922	1020am

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SAW 2/9/22 1148am

22005986

SAMPLE ID	SAMPLE DESCRIPTION
BM 16.2	Baseboard Mastic - Tan Baseboard
CK 17.1	Caulk - On Baseboard
CK 17.2	Caulk - On Baseboard
FT 18.1	Floor Tile - 12x12 - White w/ Tan
FT 18.2	Floor Tile - 12x12 - White w/ Tan
TM 19.1	Tile Mastic - On FT 18
TM 19.2	Tile Mastic - On FT 18
WF 20.1	Window Framing - Classrooms
WF 20.2	Window Framing - Classrooms
FT 21.1	Floor Tile - 12x12 - Gray
FT 21.2	Floor Tile - 12x12 - Gray
TM 22.1	Tile Mastic - On FT 21
TM 22.2	Tile Mastic - On FT 21
BF 23.1	Block Fill
BF 23.2	Block Fill
SR 24.1	Sheetrock - Locker Rooms
SR 24.2	Sheetrock - Locker Rooms
SR 24.3	Sheetrock - Locker Rooms
JC 24.1	Joint Compound - Locker Rooms
JC 25.2	Joint Compound - Locker Rooms
JC 25.3	Joint Compound - Locker Rooms
FT 26.1	Floor Tile - 12x12 - White w/ Tan
FT 26.2	Floor Tile - 12x12 - White w/ Tan
TM 27.1	Tile Mastic - On FT 26
TM 27.2	Tile Mastic - On FT 26
LN 28.1	Linoleum - Classroom Restrooms - Rose Pebble
LN 28.2	Linoleum - Classroom Restrooms - Rose Pebble

Special Instructions	

Relinquished by	Date	Time	Received by	Date	Time
Danner	2/7/2022	1:30 PM	FedEx	2/7/2022	1:30 PM
			BW	020922	1020am

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SYH 2/9/22 1148am

2200598G

SAMPLE ID	SAMPLE DESCRIPTION
CK 29.1	Caulk - Courtyard Windows
CK 29.2	Caulk - Courtyard Windows
FT 30.1	Floor Tile - 12x12 - Gray
FT 30.2	Floor Tile - 12x12 - Gray
TM 31.1	Tile Mastic - On FT 30
TM 31.2	Tile Mastic - On FT 30
DF 32.1	Door Framing - Courtyard Door
DF 32.2	Door Framing - Courtyard Door
EJ 33.1	Expansion Joint - Floor
EJ 33.2	Expansion Joint - Floor
BM 34.1	Baseboard Mastic - Old Side
BM 34.2	Baseboard Mastic - Old Side
EM 35.1	Elbow Mud - Roof Drains
EM 35.2	Elbow Mud - Roof Drains
EM 35.3	Elbow Mud - Roof Drains
FT 36.1	Floor Tile - 12x12 - Blue
FT 36.2	Floor Tile - 12x12 - Blue
TM 37.1	Tile Mastic - On FT 36
TM 37.2	Tile Mastic - On FT 36
CT 38.1	Ceiling Tile - 2x4 - Deep Squiggles - Old Side
CT 38.2	Ceiling Tile - 2x4 - Deep Squiggles - Old Side
Ct 38.3	Ceiling Tile - 2x4 - Deep Squiggles - Old Side
PW 39.1	Plaster Wall
PW 39.2	Plaster Wall
PW 39.3	Plaster Wall
VD 40.1	Vibration Dampener
VD 40.2	Vibration Dampener

Special Instructions	

Relinquished by	Date	Time	Received by	Date	Time
Danner	2/7/2022	1:30 PM	FedEx	2/7/2022	1:30 PM
			BCW	020922	1050am

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SAH 2/9/22 1148am

22005986

SAMPLE ID	SAMPLE DESCRIPTION
PM 414.1	Pipe Mastic
PM 41.2	Pipe Mastic
ES 42.1	End Sealer
ES 42.2	End Sealer
ES 42.3	End Sealer
EM 43.1	Elbow Mud
EM 43.2	Elbow Mud
EM 43.3	Elbow Mud
SC 44.1	Stage Curtain
SC 44.2	Stage Curtain
WG 45.1	Window Glazing - Restrooms
WG 45.2	Window Glazing - Restrooms
WF 46.1	Window Framing - Classrooms - Old Side
WF 46.2	Window Framing - Classrooms - Old Side
FT 47.1	Floor Tile - 12x12 - White
Ft 47.2	Floor Tile - 12x12 - White
TM 48.1	Tile Mastic - On FT 47
TM 48.2	Tile Mastic - On FT 47
CT 49.1	Ceiling Tile - 2x4 - Long Squiggles
CT 49.2	Ceiling Tile - 2x4 - Long Squiggles
CT 49.3	Ceiling Tile - 2x4 - Long Squiggles
FT 50.1	Floor Tile - 12x12 - White - Elevator
FT 50.2	Floor Tile - 12x12 - White - Elevator
TM 51.1	Tile Mastic - On FT 50
TM 51.2	Tile Mastic - On FT 50
FT 52.1	Floor Tile - 9x9 - Tan - 2nd Floor
FT 52.2	Floor Tile - 9x9 - Tan - 2nd Floor

Special Instructions	

Relinquished by	Date	Time	Received by	Date	Time
Danner	2/7/2022	1:30 PM	FedEx	2/7/2022	1:30 PM
			BCW	020922	10:20am

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SAH 2/9/22 1148am

22005986

SAMPLE ID	SAMPLE DESCRIPTION
TM 53.1	Tile Mastic - On FT 52
TM 53.2	Tile Mastic - On FT 52
WG 54.1	Window Glazing - 2nd Floor
WG 54.2	Window Glazing - 2nd Floor
CK 55.1	Caulk - Sink - 2nd Floor
CK 55.2	Caulk - Sink - 2nd Floor
CM 56.1	Construction Mastic - Walls - 2nd Floor
CM 56.2	Construction Mastic - Walls - 2nd Floor
ST 57.1	Stair Tread
ST 57.2	Stair Tread
TM 58.1	Tread Mastic
TM 58.2	Tread Mastic
FT 59.1	Floor Tile - 12x12 - White w/ Red - Library Storage
FT 59.2	Floor Tile - 12x12 - White w/ Red - Library Storage
TM 60.1	Tile Mastic - On FT 59
TM 60..2	Tile Mastic - On FT 59
FT 61.1	Floor Tile - 12x12 - White w/ Tan - Break Room Hall
Ft 61.2	Floor Tile - 12x12 - White w/ Tan - Break Room Hall
TM 62.1	Tile Mastic - On FT 61
TM 62.2	Tile Mastic - On FT 61
TS 63.1	Transite Panel
TS 63.2	Transite Panel
LG 64.1	Louver Gasket
LG 64.2	Louver Gasket
WF 65.1	Exterior Window Framing
WF 65.2	Exterior Window Framing

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SAH 2/9/22 1148am

SanAir Technologies Laboratory

SanAir ID Number
22005986
FINAL REPORT
2/11/2022 12:06:18 PM

Name: HDH Technical, Inc.
Address: P.O. Box 6158
Christiansburg, VA 24073
Phone: 540-381-7999

Project Number:
P.O. Number:
Project Name: Sandlick Elementary School
Collected Date: 2/4/2022
Received Date: 2/9/2022 10:20:00 AM

Analyst: Li, Elizabeth | Pisula, Nicholas | Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
FT 1.1 / 22005986-001 Floor Tile - 12x12 - Rose - Office	Beige Non-Fibrous Homogeneous		100% Other	None Detected
FT 1.2 / 22005986-002 Floor Tile - 12x12 - Rose - Office	Beige Non-Fibrous Homogeneous		100% Other	None Detected
TM 2.1 / 22005986-003 Tile Mastic - On FT 1	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
TM 2.2 / 22005986-004 Tile Mastic - On FT 1	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
BM 3.1 / 22005986-005 Baseboard Mastic - Rose Baseboard - Office	White Non-Fibrous Homogeneous		100% Other	None Detected
BM 3.2 / 22005986-006 Baseboard Mastic - Rose Baseboard - Office	White Non-Fibrous Homogeneous		100% Other	None Detected
CT 4.1 / 22005986-007 Ceiling Tile - 2x4	White Fibrous Homogeneous	95% Cellulose	5% Other	None Detected
CT 4.2 / 22005986-008 Ceiling Tile - 2x4	White Fibrous Homogeneous	95% Cellulose	5% Other	None Detected
CT 4.3 / 22005986-009 Ceiling Tile - 2x4	White Fibrous Homogeneous	95% Cellulose	5% Other	None Detected
CT 4.4 / 22005986-010 Ceiling Tile - 2x4	White Fibrous Homogeneous	95% Cellulose	5% Other	None Detected

Analyst: Elizabeth Li

Approved Signatory:

Analysis Date: 2/11/2022

Date: 2/11/2022

SanAir Technologies Laboratory

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Analyst: Li, Elizabeth | Pisula, Nicholas | Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
CT 4.5 / 22005986-011 Ceiling Tile - 2x4	White Fibrous Homogeneous	95% Cellulose	5% Other	None Detected
CT 5.1 / 22005986-012 Ceiling Tile - 2x4 - Restrooms / Hall	White Fibrous Homogeneous	95% Cellulose	5% Other	None Detected
CT 5.2 / 22005986-013 Ceiling Tile - 2x4 - Restrooms / Hall	White Fibrous Homogeneous	95% Cellulose	5% Other	None Detected
CT 5.3 / 22005986-014 Ceiling Tile - 2x4 - Restrooms / Hall	White Fibrous Homogeneous	95% Cellulose	5% Other	None Detected
CT 6.1 / 22005986-015 Ceiling Tile - 2x4 - Restrooms	White Non-Fibrous Homogeneous	3% Cellulose 40% Glass	57% Other	None Detected
CT 6.2 / 22005986-016 Ceiling Tile - 2x4 - Restrooms	White Non-Fibrous Homogeneous	3% Cellulose 40% Glass	57% Other	None Detected
CT 6.3 / 22005986-017 Ceiling Tile - 2x4 - Restrooms	White Non-Fibrous Homogeneous	3% Cellulose 40% Glass	57% Other	None Detected
PW 7.1 / 22005986-018 Pipe Wrap	White Fibrous Homogeneous	65% Cellulose	35% Other	None Detected
PW 7.2 / 22005986-019 Pipe Wrap	White Fibrous Homogeneous	65% Cellulose	35% Other	None Detected
PW 7.3 / 22005986-020 Pipe Wrap	White Fibrous Homogeneous	65% Cellulose	35% Other	None Detected

Analyst: Elizabeth Li

Approved Signatory:

Analysis Date: 2/11/2022

Date: 2/11/2022

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Analyst: Li, Elizabeth | Pisula, Nicholas | Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components % Fibrous	% Non-fibrous	Asbestos Fibers
ES 8.1 / 22005986-021 End Sealer	White Non-Fibrous Homogeneous		100% Other	None Detected
ES 8.2 / 22005986-022 End Sealer	White Non-Fibrous Homogeneous		100% Other	None Detected
ES 8.3 / 22005986-023 End Sealer	White Non-Fibrous Homogeneous		100% Other	None Detected
EJ 9.1 / 22005986-024 Expansion Joint - Gym	White Non-Fibrous Homogeneous		100% Other	None Detected
EJ 9.2 / 22005986-025 Expansion Joint - Gym	White Non-Fibrous Homogeneous		100% Other	None Detected
BM 10.1 / 22005986-026 Baseboard Mastic - 5" Baseboard - Gym	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
BM 10.2 / 22005986-027 Baseboard Mastic - 5" Baseboard - Gy	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
BM 11.1 / 22005986-028 Baseboard Mastic - Behind BM 10	White Non-Fibrous Homogeneous		100% Other	None Detected
BM 11.2 / 22005986-029 Baseboard Mastic - Behind BM 10	White Non-Fibrous Homogeneous		100% Other	None Detected
DF 12.1 / 22005986-030 Interior Door Framing	Various Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Elizabeth Li

Approved Signatory:

Analysis Date: 2/11/2022

Date: 2/11/2022

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Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
DF 12.2 / 22005986-031 Interior Door Framing	Various Non-Fibrous Homogeneous		100% Other	None Detected
CM 13.1 / 22005986-032 Construction Mastic - Basketball Goals - Gym	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
CM 13.2 / 22005986-033 Construction Mastic - Basketball Goals - Gym	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
FT 14.1 / 22005986-034 Floor Tile - 12x12 - Hall / Classrooms	Gray Non-Fibrous Homogeneous		100% Other	None Detected
FT 14.2 / 22005986-035 Floor Tile - 12x12 - Hall / Classrooms	Gray Non-Fibrous Homogeneous		100% Other	None Detected
TM 15.1 / 22005986-036 Tile Mastic - On FT 14	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
TM 15.2 / 22005986-037 Tile Mastic - On FT 14	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
BM 16.1 / 22005986-038 Baseboard Mastic - Baseboard	Tan Non-Fibrous Homogeneous		100% Other	None Detected
BM 16.2 / 22005986-039 Baseboard Mastic - Baseboard	Tan Non-Fibrous Homogeneous		100% Other	None Detected
CK 17.1 / 22005986-040 Caulk On Baseboard	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Elizabeth Li

Approved Signatory:

Analysis Date: 2/11/2022

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Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
CK 17.2 / 22005986-041 Caulk On Baseboard	White Non-Fibrous Homogeneous		100% Other	None Detected
FT 18.1 / 22005986-042 Floor Tile - 12x12	White Non-Fibrous Homogeneous		100% Other	None Detected
FT 18.2 / 22005986-043 Floor Tile - 12x12	White Non-Fibrous Homogeneous		100% Other	None Detected
TM 19.1 / 22005986-044 Tile Mastic - On FT 18	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
TM 19.2 / 22005986-045 Tile Mastic - On FT 18	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
WF 20.1 / 22005986-046 Window Framing - Classrooms	White Non-Fibrous Homogeneous		100% Other	None Detected
WF 20.2 / 22005986-047 Window Framing - Classrooms	White Non-Fibrous Homogeneous		100% Other	None Detected
FT 21.1 / 22005986-048 Floor Tile - 12x12	Grey Non-Fibrous Homogeneous		100% Other	None Detected
FT 21.2 / 22005986-049 Floor Tile - 12x12	Grey Non-Fibrous Homogeneous		100% Other	None Detected
TM 22.1 / 22005986-050 Tile Mastic - On FT 21	Tan Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Elizabeth Li

Approved Signatory:

Analysis Date: 2/11/2022

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Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
TM 22.2 / 22005986-051 Tile Mastic - On FT 21	Tan Non-Fibrous Homogeneous		100% Other	None Detected
BF 23.1 / 22005986-052 Block Fill	Brown Non-Fibrous Heterogeneous		100% Other	None Detected
BF 23.2 / 22005986-053 Block Fill	Brown Non-Fibrous Homogeneous		100% Other	None Detected
SR 24.1 / 22005986-054 Sheetrock - Locker Rooms	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
SR 24.2 / 22005986-055 Sheetrock - Locker Rooms	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
SR 24.3 / 22005986-056 Sheetrock - Locker Rooms	Grey Non-Fibrous Homogeneous	5% Cellulose	95% Other	None Detected
JC 24.1 / 22005986-057 Joint Compound - Locker Rooms	White Non-Fibrous Homogeneous		100% Other	None Detected
JC 25.2 / 22005986-058 Joint Compound - Locker Rooms	White Non-Fibrous Homogeneous		100% Other	None Detected
JC 25.3 / 22005986-059 Joint Compound - Locker Rooms	White Non-Fibrous Homogeneous		100% Other	None Detected
FT 26.1 / 22005986-060 Floor Tile - 12x12	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Elizabeth Li

Approved Signatory:

Analysis Date: 2/11/2022

Date: 2/11/2022

SanAir Technologies Laboratory

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Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
FT 26.2 / 22005986-061 Floor Tile - 12x12	White Non-Fibrous Homogeneous		100% Other	None Detected
TM 27.1 / 22005986-062 Tile Mastic - On FT 26	Tan Non-Fibrous Homogeneous		100% Other	None Detected
TM 27.2 / 22005986-063 Tile Mastic - On FT 26	Tan Non-Fibrous Homogeneous		100% Other	None Detected
LN 28.1 / 22005986-064 Linoleum - Classroom Restrooms	Beige Non-Fibrous Homogeneous	20% Cellulose	80% Other	None Detected
LN 28.2 / 22005986-065 Linoleum - Classroom Restrooms	Beige Non-Fibrous Homogeneous	20% Cellulose	80% Other	None Detected
CK 29.1 / 22005986-066 Caulk - Courtyard Windows	White Non-Fibrous Homogeneous		100% Other	None Detected
CK 29.2 / 22005986-067 Caulk - Courtyard Windows	White Non-Fibrous Homogeneous		100% Other	None Detected
FT 30.1 / 22005986-068 Floor Tile - 12x12	Grey Non-Fibrous Homogeneous		100% Other	None Detected
FT 30.2 / 22005986-069 Floor Tile - 12x12	Grey Non-Fibrous Homogeneous		100% Other	None Detected
TM 31.1 / 22005986-070 Tile Mastic On FT 30	Tan Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Elizabeth Li

Approved Signatory:

Analysis Date: 2/11/2022

Date: 2/11/2022

SanAir Technologies Laboratory

SanAir ID Number
22005986
FINAL REPORT
2/11/2022 12:06:18 PM

Name: HDH Technical, Inc.
Address: P.O. Box 6158
Christiansburg, VA 24073
Phone: 540-381-7999

Project Number:
P.O. Number:
Project Name: Sandlick Elementary School
Collected Date: 2/4/2022
Received Date: 2/9/2022 10:20:00 AM

Analyst: Li, Elizabeth | Pisula, Nicholas | Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
TM 31.2 / 22005986-071 Tile Mastic On FT 30	Tan Non-Fibrous Homogeneous		100% Other	None Detected
DF 32.1 / 22005986-072 Door Framing - Courtyard Door	White Non-Fibrous Homogeneous		100% Other	None Detected
DF 32.2 / 22005986-073 Door Framing - Courtyard Door	White Non-Fibrous Homogeneous		100% Other	None Detected
EJ 33.1 / 22005986-074 Expansion Joint - Floor	Brown Non-Fibrous Homogeneous		100% Other	None Detected
EJ 33.2 / 22005986-075 Expansion Joint - Floor	Brown Non-Fibrous Homogeneous		100% Other	None Detected
BM 34.1 / 22005986-076 Baseboard Mastic - Old Side	Brown Non-Fibrous Homogeneous		100% Other	None Detected
BM 34.2 / 22005986-077 Baseboard Mastic - Old Side	Brown Non-Fibrous Homogeneous		100% Other	None Detected
EM 35.1 / 22005986-078 Elbow Mud - Roof Drains	Grey Non-Fibrous Homogeneous		100% Other	None Detected
EM 35.2 / 22005986-079 Elbow Mud - Roof Drains	Grey Non-Fibrous Homogeneous		100% Other	None Detected
EM 35.3 / 22005986-080 Elbow Mud - Roof Drains	Grey Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Elizabeth Li

Approved Signatory:

Analysis Date: 2/11/2022

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Analyst: Li, Elizabeth | Pisula, Nicholas | Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
FT 36.1 / 22005986-081 Floor Tile - 12x12	Blue Non-Fibrous Homogeneous		98% Other	2% Chrysotile
FT 36.2 / 22005986-082 Floor Tile - 12x12	Blue Non-Fibrous Homogeneous		98% Other	2% Chrysotile
TM 37.1 / 22005986-083 Tile Mastic - On FT 36	Black Non-Fibrous Homogeneous		96% Other	4% Chrysotile
TM 37.2 / 22005986-084 Tile Mastic - On FT 36	Black Non-Fibrous Homogeneous		96% Other	4% Chrysotile
CT 38.1 / 22005986-085 Ceiling Tile - 2x4 - Old Side	White Fibrous Homogeneous	50% Min. Wool	50% Other	< 1% Chrysotile
CT 38.2 / 22005986-086 Ceiling Tile - 2x4 - Old Side	White Fibrous Homogeneous	50% Min. Wool	50% Other	< 1% Chrysotile
CT 38.3 / 22005986-087 Ceiling Tile - 2x4 - Old Side	White Fibrous Homogeneous	50% Min. Wool	50% Other	< 1% Chrysotile
PW 39.1 / 22005986-088 Plaster Wall, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected
PW 39.1 / 22005986-088 Plaster Wall, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
PW 39.2 / 22005986-089 Plaster Wall, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Elizabeth Li

Approved Signatory:

Analysis Date: 2/11/2022

Date: 2/11/2022

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Analyst: Li, Elizabeth | Pisula, Nicholas | Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
PW 39.2 / 22005986-089 Plaster Wall, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
PW 39.3 / 22005986-090 Plaster Wall, Plaster	Grey Non-Fibrous Homogeneous		100% Other	None Detected
PW 39.3 / 22005986-090 Plaster Wall, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
VD 40.1 / 22005986-091 Vibration Dampener	Black Fibrous Homogeneous	50% Glass	50% Other	None Detected
VD 40.2 / 22005986-092 Vibration Dampener	Black Fibrous Homogeneous	50% Glass	50% Other	None Detected
PM 41.1 / 22005986-093 Pipe Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected
PM 41.2 / 22005986-094 Pipe Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected
ES 42.1 / 22005986-095 End Sealer	Grey Non-Fibrous Homogeneous	20% Glass	80% Other	None Detected
ES 42.2 / 22005986-096 End Sealer, Fitting	Grey Non-Fibrous Homogeneous	20% Glass	80% Other	None Detected
ES 42.2 / 22005986-096 End Sealer, Wrap	White Fibrous Homogeneous	80% Cellulose	20% Other	None Detected

Analyst: Elizabeth Li
Approved Signatory:

Analysis Date: 2/11/2022
Date: 2/11/2022

SanAir Technologies Laboratory

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Analyst: Li, Elizabeth | Pisula, Nicholas | Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
ES 42.3 / 22005986-097 End Sealer, Fitting	Grey Non-Fibrous Homogeneous	20% Glass	80% Other	None Detected
ES 42.3 / 22005986-097 End Sealer, Wrap	White Fibrous Homogeneous	80% Cellulose	20% Other	None Detected
EM 43.1 / 22005986-098 Elbow Mud, Mud	Grey Non-Fibrous Homogeneous	20% Glass	80% Other	None Detected
EM 43.1 / 22005986-098 Elbow Mud, Wrap	White Fibrous Homogeneous	90% Cellulose	10% Other	None Detected
EM 43.2 / 22005986-099 Elbow Mud	Grey Non-Fibrous Homogeneous	20% Glass	80% Other	None Detected
EM 43.3 / 22005986-100 Elbow Mud, Fitting	Grey Non-Fibrous Homogeneous	20% Glass	80% Other	None Detected
EM 43.3 / 22005986-100 Elbow Mud, Wrap	White Fibrous Homogeneous	80% Cellulose	20% Other	None Detected
SC 44.1 / 22005986-101 Stage Curtain	Black Fibrous Homogeneous	90% Cellulose	10% Other	None Detected
SC 44.2 / 22005986-102 Stage Curtain	Black Fibrous Homogeneous	90% Cellulose	10% Other	None Detected
WG 45.1 / 22005986-103 Window Glazing - Restrooms	Various Non-Fibrous Heterogeneous		100% Other	None Detected

Analyst: Elizabeth Li

Approved Signatory:

Analysis Date: 2/11/2022

Date: 2/11/2022

SanAir Technologies Laboratory

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Analyst: Li, Elizabeth | Pisula, Nicholas | Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
WG 45.2 / 22005986-104 Window Glazing - Restrooms	Various Non-Fibrous Heterogeneous		100% Other	None Detected
WF 46.1 / 22005986-105 Window Framing - Classrooms - Old Side	Cream Non-Fibrous Homogeneous		98% Other	2% Chrysotile
WF 46.2 / 22005986-106 Window Framing - Classrooms - Old Side	Cream Non-Fibrous Homogeneous		98% Other	2% Chrysotile
FT 47.1 / 22005986-107 Floor Tile - 12x12	White Non-Fibrous Homogeneous		100% Other	None Detected
FT 47.2 / 22005986-108 Floor Tile - 12x12	White Non-Fibrous Homogeneous		100% Other	None Detected
TM 48.1 / 22005986-109 Tile Mastic - On FT 47	Black Non-Fibrous Homogeneous		98% Other	2% Chrysotile
TM 48.2 / 22005986-110 Tile Mastic - On FT 47	Black Non-Fibrous Homogeneous		98% Other	2% Chrysotile
CT 49.1 / 22005986-111 Ceiling Tile - 2x4	White Fibrous Homogeneous	50% Glass 30% Cellulose	20% Other	None Detected
CT 49.2 / 22005986-112 Ceiling Tile - 2x4	White Fibrous Homogeneous	50% Glass 30% Cellulose	20% Other	None Detected
CT 49.3 / 22005986-113 Ceiling Tile - 2x4	White Fibrous Homogeneous	50% Glass 30% Cellulose	20% Other	None Detected

Analyst: Elizabeth Li

Approved Signatory:

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SanAir Technologies Laboratory

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Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
FT 50.1 / 22005986-114 Floor Tile - 12x12 - Elevator	White Non-Fibrous Homogeneous		100% Other	None Detected
FT 50.2 / 22005986-115 Floor Tile - 12x12 - Elevator	White Non-Fibrous Homogeneous		100% Other	None Detected
TM 51.1 / 22005986-116 Tile Mastic - On FT 50	Tan Non-Fibrous Homogeneous		100% Other	None Detected
TM 51.2 / 22005986-117 Tile Mastic - On FT 50	Tan Non-Fibrous Homogeneous		100% Other	None Detected
FT 52.1 / 22005986-118 Floor Tile - 9x9 - 2nd Floor	Tan Non-Fibrous Homogeneous		97% Other	3% Chrysotile
FT 52.2 / 22005986-119 Floor Tile - 9x9 - 2nd Floor	Tan Non-Fibrous Homogeneous		97% Other	3% Chrysotile
TM 53.1 / 22005986-120 Tile Mastic - On FT 52	Black Non-Fibrous Homogeneous		98% Other	2% Chrysotile
TM 53.2 / 22005986-121 Tile Mastic - On FT 52	Black Non-Fibrous Homogeneous		98% Other	2% Chrysotile
WG 54.1 / 22005986-122 Window Glazing - 2nd Floor	Gray Non-Fibrous Homogeneous		100% Other	None Detected
WG 54.2 / 22005986-123 Window Glazing - 2nd Floor	Gray Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Elizabeth Li

Approved Signatory:

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Analyst: Li, Elizabeth | Pisula, Nicholas | Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
CK 55.1 / 22005986-124 Caulk - Sink - 2nd Floor	White Non-Fibrous Homogeneous		100% Other	None Detected
CK 55.2 / 22005986-125 Caulk - Sink - 2nd Floor	White Non-Fibrous Homogeneous		100% Other	None Detected
CM 56.1 / 22005986-126 Construction Mastic - Walls - 2nd Floor	Tan Non-Fibrous Homogeneous		100% Other	None Detected
CM 56.2 / 22005986-127 Construction Mastic - Walls - 2nd Floor	Tan Non-Fibrous Homogeneous		100% Other	None Detected
ST 57.1 / 22005986-128 Stair Tread	Cream Non-Fibrous Homogeneous		100% Other	None Detected
ST 57.2 / 22005986-129 Stair Tread	Cream Non-Fibrous Homogeneous		100% Other	None Detected
TM 58.1 / 22005986-130 Tread Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
TM 58.2 / 22005986-131 Tread Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
FT 59.1 / 22005986-132 Floor Tile - 12x12 - Library Storage	White Non-Fibrous Homogeneous		98% Other	2% Chrysotile
FT 59.2 / 22005986-133 Floor Tile - 12x12 - Library Storage	White Non-Fibrous Homogeneous		98% Other	2% Chrysotile

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Approved Signatory:
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Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
TM 60.1 / 22005986-134 Tile Mastic - On FT 59	Black Non-Fibrous Homogeneous		96% Other	4% Chrysotile
TM 60.2 / 22005986-135 Tile Mastic - On FT 59	Black Non-Fibrous Homogeneous		96% Other	4% Chrysotile
FT 61.1 / 22005986-136 Floor Tile - 12x12 - Break Room Hall	White Non-Fibrous Homogeneous		98% Other	2% Chrysotile
FT 61.2 / 22005986-137 Floor Tile - 12x12 - Break Room Hall	White Non-Fibrous Homogeneous		98% Other	2% Chrysotile
TM 62.1 / 22005986-138 Tile Mastic - On FT 61	Black Non-Fibrous Homogeneous		100% Other	< 1% Chrysotile
TM 62.2 / 22005986-139 Tile Mastic - On FT 61	Black Non-Fibrous Homogeneous		98% Other	2% Chrysotile
TS 63.1 / 22005986-140 Transite Panel	Grey Non-Fibrous Homogeneous		80% Other	20% Chrysotile
TS 63.2 / 22005986-141 Transite Panel	Grey Non-Fibrous Homogeneous		80% Other	20% Chrysotile
LG 64.1 / 22005986-142 Louver Gasket	Grey Non-Fibrous Homogeneous		100% Other	None Detected
LG 64.2 / 22005986-143 Louver Gasket	Grey Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Elizabeth Li

Approved Signatory:

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Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
WF 65.1 / 22005986-144 Exterior Window Framing	Grey Non-Fibrous Homogeneous		98% Other	2% Chrysotile
WF 65.2 / 22005986-145 Exterior Window Framing	Grey Non-Fibrous Homogeneous		98% Other	2% Chrysotile

Analyst: Elizabeth Li

Approved Signatory:

Analysis Date: 2/11/2022

Date: 2/11/2022

Disclaimer

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Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:
Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications
NVLAP lab code 200870-0
City of Philadelphia: ALL-460
PA Department of Environmental Protection Number: 68-05397
California License Number: 2915
Colorado License Number: AL-23143
Connecticut License Number: PH-0105
Massachusetts License Number: AA000222
Maine License Number: LB-0075, LA-0084
New York ELAP lab ID: 11983
Rhode Island License Number: PCM00126, PLM00126, TEM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia 3333000323
Washington State License Number: C989
West Virginia License Number: LT000616
Vermont License: AL166318
Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020

SanAir
Technologies Laboratory

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Received Date: 2/9/2022 10:20:00 AM

Dear Danner,

We at SanAir would like to thank you for the work you recently submitted. The 145 sample(s) were received on Wednesday, February 09, 2022 via UPS. The final report(s) is enclosed for the following sample(s): FT 1.1, FT 1.2, TM 2.1, TM 2.2, BM 3.1, BM 3.2, CT 4.1, CT 4.2, CT 4.3, CT 4.4, CT 4.5, CT 5.1, CT 5.2, CT 5.3, CT 6.1, CT 6.2, CT 6.3, PW 7.1, PW 7.2, PW 7.3, ES 8.1, ES 8.2, ES 8.3, EJ 9.1, EJ 9.2, BM 10.1, BM 10.2, BM 11.1, BM 11.2, DF 12.1, DF 12.2, CM 13.1, CM 13.2, FT 14.1, FT 14.2, TM 15.1, TM 15.2, BM 16.1, BM 16.2, CK 17.1, CK 17.2, FT 18.1, FT 18.2, TM 19.1, TM 19.2, WF 20.1, WF 20.2, FT 21.1, FT 21.2, TM 22.1, TM 22.2, BF 23.1, BF 23.2, SR 24.1, SR 24.2, SR 24.3, JC 24.1, JC 25.2, JC 25.3, FT 26.1, FT 26.2, TM 27.1, TM 27.2, LN 28.1, LN 28.2, CK 29.1, CK 29.2, FT 30.1, FT 30.2, TM 31.1, TM 31.2, DF 32.1, DF 32.2, EJ 33.1, EJ 33.2, BM 34.1, BM 34.2, EM 35.1, EM 35.2, EM 35.3, FT 36.1, FT 36.2, TM 37.1, TM 37.2, CT 38.1, CT 38.2, CT 38.3, PW 39.1, PW 39.2, PW 39.3, VD 40.1, VD 40.2, PM 41.1, PM 41.2, ES 42.1, ES 42.2, ES 42.3, EM 43.1, EM 43.2, EM 43.3, SC 44.1, SC 44.2, WG 45.1, WG 45.2, WF 46.1, WF 46.2, FT 47.1, FT 47.2, TM 48.1, TM 48.2, CT 49.1, CT 49.2, CT 49.3, FT 50.1, FT 50.2, TM 51.1, TM 51.2, FT 52.1, FT 52.2, TM 53.1, TM 53.2, WG 54.1, WG 54.2, CK 55.1, CK 55.2, CM 56.1, CM 56.2, ST 57.1, ST 57.2, TM 58.1, TM 58.2, FT 59.1, FT 59.2, TM 60.1, TM 60.2, FT 61.1, FT 61.2, TM 62.1, TM 62.2, TS 63.1, TS 63.2, LG 64.1, LG 64.2, WF 65.1, WF 65.2.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Sandra Sobrino

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:
- 145 samples in Good condition.

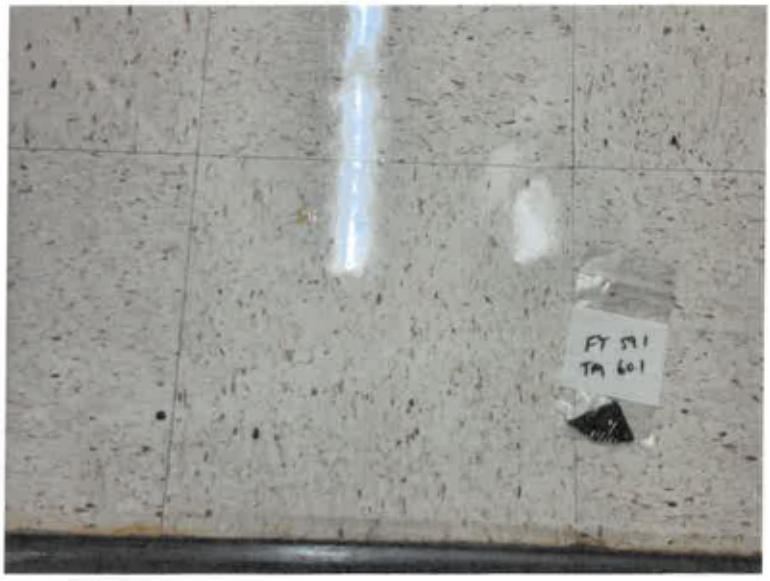
Photos

Sandlick Elementary School

Blue 12"x12" Floor Tile was found to be asbestos containing by the laboratory.

Sandlick Elementary School

White/Tan 12"x12" Floor Tile located in library storage and break room area was found to be asbestos containing by the laboratory.



White/Maroon 12"x12" Floor Tile located in library storage was found to be asbestos containing by the laboratory.

Sandlick Elementary School

Tan 9"x9" Floor Tile located in second floor classrooms was found to be asbestos containing by the laboratory.

All Black Floor Tile Mastic located in original structure was found to be asbestos containing by the laboratory.

Sandlick Elementary School

Interior and Exterior Window Framing Caulk on original structure was found to be asbestos containing by the laboratory.

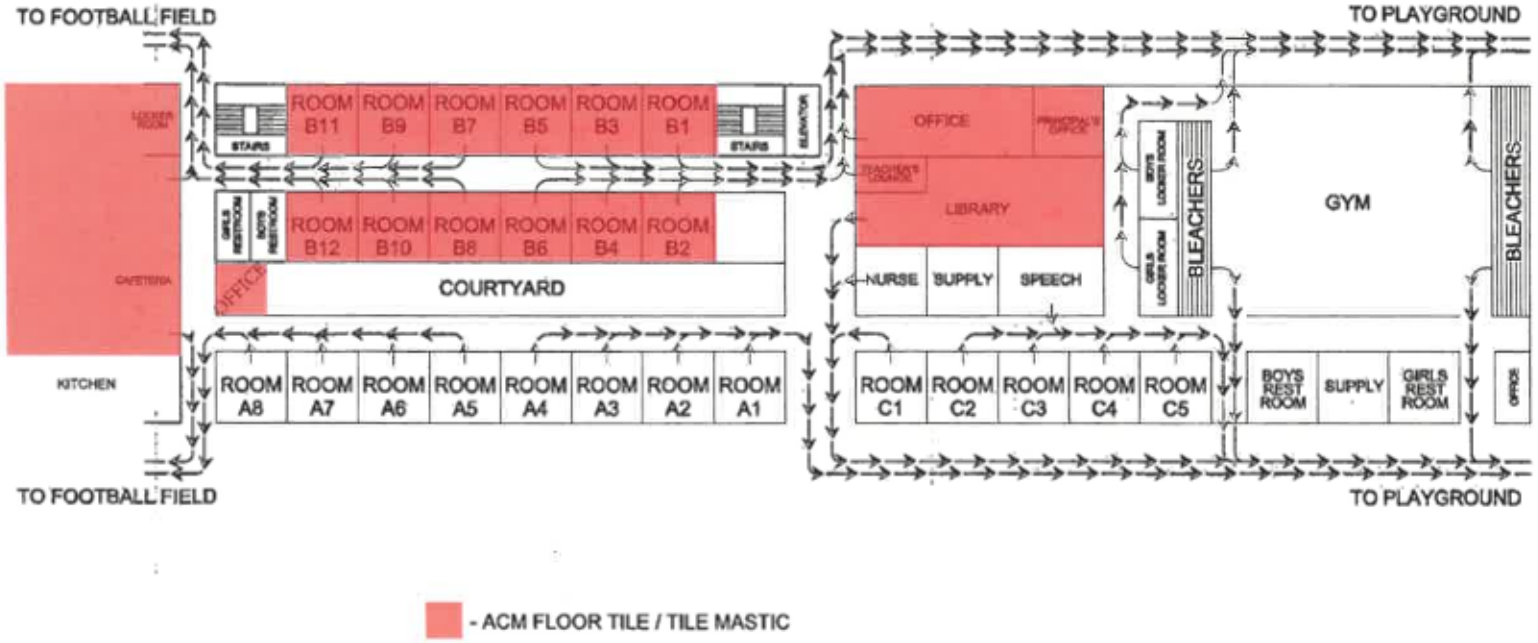
Interior and Exterior Window Framing Caulk on original structure was found to be asbestos containing by the laboratory.

Sandlick Elementary School

Cementitious Fascia Panels were found to be asbestos containing by the laboratory.

ACM Floor Tile/Mastic Locations

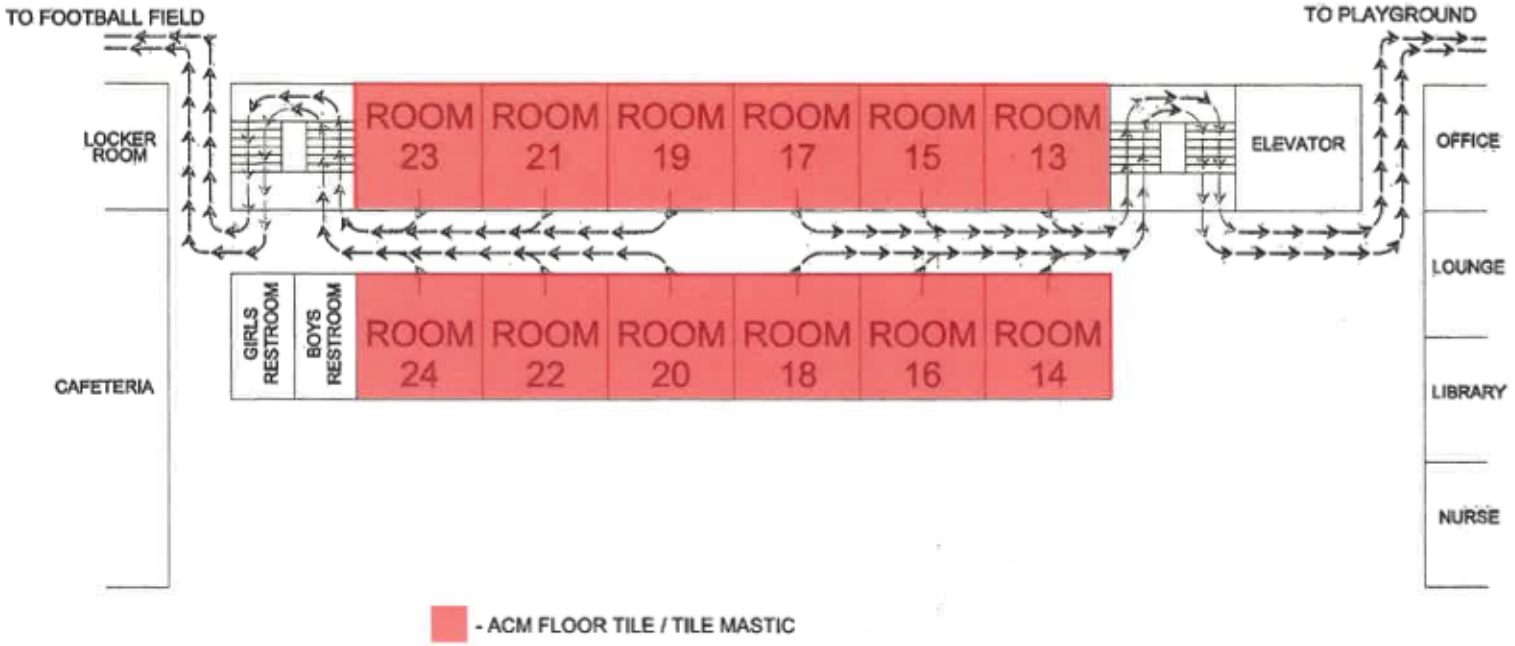
Sandlick Elementary School



- ACM FLOOR TILE / TILE MASTIC

1st Floor

Sandlick Elementary School



2nd Floor

Applicable Licenses

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation
9960 Mayland Drive, Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
12-31-2022

NUMBER
3303004480

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS
ASBESTOS INSPECTOR LICENSE

JARED ALLEN CROWDER
5789 TABERNACLE PL
PULASKI, VA 24301

DPOR

Mary Broz-Vaughan, Director

Status can be verified at http://www.dpor.virginia.gov

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)

DPOR License Lookup License Number 3303004166

License Details

Name	DANNER, FREDERICK REED
License Number	3303004166
License Description	Asbestos Inspector License
Rank	Asbestos Inspector
Address	CHRISTIANSBURG, VA 24073-0000
Initial Certification Date	2016-05-13
Expiration Date	2022-05-31

DPOR License Lookup build 1,472 (built 2021-02-15 10:16:48).

HDHT Technical, Inc.
Environmental & Industrial Hygiene Services

P.O. Box 6158,
Christiansburg, VA 24073

Office: (540) 381-7999
www.best-hdht.com

Solutions for all your Environmental and OSHA Concerns

July 7, 2023

Asbestos Inspection Report

Project Location:

Sandlick Elementary School
Birchleaf, Virginia
Roof Only

Prepared For:

Dickenson County Public Schools
P.O. Box 1172, Volunteer Ave
Clintwood, VA 24228

Prepared By:

Jared Crowder
Asbestos Inspector

Fred Danner
Asbestos Inspector

TABLE OF CONTENTS

SCOPE OF WORK

HDH Technical, Inc. was contracted by Dickenson County Public Schools to provide an asbestos inspection of the roof sections at Sandlick Elementary School located in Birchleaf, Virginia. The inspection was conducted by personnel trained and licensed in accordance with the regulations of the Environmental Protection Agency (EPA) and the Commonwealth of Virginia. This inspection was performed using current EPA AHERA standards. This protocol was used for the determination, sampling and analysis of suspected Asbestos Containing Materials (ACM).

ASBESTOS INSPECTION

An inspection of the roof sections of the structure called Sandlick Elementary School was performed February 4, 2022 by representatives of HDHT. The objective of this inspection was to determine the location of suspect asbestos-containing materials (ACM) currently located on roof sections of this structure that may be disturbed by upcoming demolition activities.

Please see previous report dated February 14, 2022 for the non-roofing portions of this structure.

As the sample summary indicates, the following suspect materials sampled were reported to be asbestos containing by the laboratory:

- **Asphalt Built Up Roof Components**
  - These materials were observed and sampled under existing ballasted roof sections, but may also exist in other locations.

These NON-Friable asbestos containing materials should be removed prior to demolition activities at this location. Removal should be performed by licensed, contract personnel using approved methods.

Friable Asbestos Material: Material when dry, may be crumbled, pulverized or reduced to powder by hand pressure and includes previously non-friable material after such previously non-friable material becomes damaged to the extent that when dry is may be crumbled, pulverized, or reduced to powder by hand pressure.

Non-friable Asbestos Material: Material that contains asbestos 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 will not release fibers during any appropriate use, handling, demolition, storage, transportation, processing or disposal.

This information should be provided to all contract personnel for their use in meeting current OSHA requirements. Every attempt was made to gain access to all areas or to assess representative materials entering or leaving the area. HDH Technical, Inc. accepts no liability nor makes any claims regarding ACBM which was not accessible during the inspection process if such material was located behind or within walls, concrete decks, subfloors, or was generally inaccessible without destructive sampling. If any additional suspect materials are identified during the course of the project, the contractor is to immediately stop work and contact the Owner for further direction.

Sample Summary

Sandlick Elementary School - Roof

LAB #	SAMPLE ID	SAMPLE DESCRIPTION	RESULT	%
23036269 -001	RM 1.1	Roof Materials - Under Ballasted EPDM	■	5%
23036269 -002	RM 1.2	Roof Materials - Under Ballasted EPDM	■	5%
23036269 -003	RI 2.1	Roof insulation - Perlite - Under Ballasted EPDM	ND	-
23036269 -004	RI 2.2	Roof insulation - Perlite - Under Ballasted EPDM	ND	-
23036269 -005	RI 3.1	Roof insulation - Perlite - Under Adhered EPDM	ND	-
23036269 -006	RI 3.2	Roof insulation - Perlite - Under Adhered EPDM	ND	-

ND = NONE DETECTED

NA = NOT ANALYZED POSITIVE STOP

■ = CHRYSOTILE ▲ = AMOSITE ◉ = OTHER

Laboratory Report

SanAir Technologies Laboratory
1551 Oakbridge Drive Suite B
Powhatan, VA 23139
804-897-1177 / 888-895-1175
Fax 804-897-0070
www.sanair.com

Asbestos Chain of Custody

SanAir ID Number: 23036269

Company: HDH Technical, Inc	Project #: Roof	Collected by: Danner	
Address: 1305 Radford Street	Project Name: Sandlick Elementary School	Phone #: 540-381-7999	
City, St, Zip: Christiansburg, VA 24073	Date Collected: 7/3/2023	Email: rliebal@hdhassociates.com	
State of Collection: VA Account #: 1769	P.O. Number:	Email: fdanner@hdhassociates.com	

Bulk

ABB	PLM EPA 600/R-93/116	X
	Positive Stop	
ABEPA	PLM EPA 400 Point Count	
ABB1K	PLM EPA 1000 Point Count	
ABBEN	PLM EPA NOB	
ABBCH	TEM Chatfield	
ABBTM	TEM EPA NOB	

Water

ABHE	EPA 100.2	

Air

ABA	PCM NIOSH 7400	
ABA-2	OSHA w/ TWA*	
ABTEM	TEM AHERA	
ABATN	TEM NIOSH 7402	
ABT2	TEM Level II	

New York ELAP

PLM NY	PLM EPA 600/M4-82-020	
ABEPA2	NY ELAP 198.1	
ABENY	NY ELAP 198.6 PLM NOB	
ABBNY	NY ELAP 198.4 TEM NOB	

Soil/Vermiculite

ABSE	PLM EPA 600/R-93/116 (Qual.)	
ABSP	PLM CARB 435 (LOD <1%)	
ABSP1	PLM CARB 435 (LOD 0.25%)	
ABSP2	PLM CARB 435 (LOD 0.1%)	

Dust

ABWA	TEM Wipe ASTM D-6480	
ABDMV	TEM Microvac ASTM D-5755	

Matrix | **Other**

Turn Around Times				
3 HR (4 HR TEM)		6 HR (8HR TEM)		12 HR		24 HR	X
2 Days		3 Days		4 Days		5 Days	

Special Instructions:

SAMPLE ID	SAMPLE DESCRIPTION
RM 1.1	Roof Materials - Under Ballasted EPDM
RM 1.2	Roof Materials - Under Ballasted EPDM
RI 2.1	Roof insulation - Perlite - Under Ballasted EPDM
RI 2.2	Roof insulation - Perlite - Under Ballasted EPDM
RI 3.1	Roof insulation - Perlite - Under Adhered EPDM
RI 3.2	Roof insulation - Perlite - Under Adhered EPDM

Special Instructions

Relinquished by	Date	Time	Received by	Date	Time
Danner	7/3/2023	3:28 PM	UPS	7/3/2023	3:28 PM
			ESC	7-6-23	10:20 AM

Unless scheduled, the turn around time for all samples received after 3 pm EST Friday will begin at 8 am Monday morning. Weekend or Holiday work must be scheduled ahead of time and is charged for rush turn around time.
Work with standard turn around time sent Priority Overnight and Billed to Recipient will be charged a $10 shipping fee.

Page 1 of 1

SanAir
Technologies Laboratory

SanAir ID Number
23036269
FINAL REPORT
7/7/2023 11:51:30 AM

Name: HDH Technical, Inc.
Address: P.O. Box 6158
Christiansburg, VA 24073
Phone: 540-381-7999

Project Number: Roof
P.O. Number:
Project Name: Sandlick Elementary School
Collected Date: 7/3/2023
Received Date: 7/6/2023 10:20:00 AM

Analyst: Williams, Darien

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
RM 1.1 / 23036269-001 Roof Materials - Under Ballasted EPDM	Black Non-Fibrous Homogeneous		95% Other	5% Chrysotile
RM 1.2 / 23036269-002 Roof Materials - Under Ballasted EPDM	Black Non-Fibrous Homogeneous		95% Other	5% Chrysotile
RI 2.1 / 23036269-003 Roof Insulation - Perlite - Under Ballasted EPDM	Brown Fibrous Homogeneous	70% Cellulose	30% Other	None Detected
RI 2.2 / 23036269-004 Roof Insulation - Perlite - Under Ballasted EPDM	Brown Fibrous Homogeneous	70% Cellulose	30% Other	None Detected
RI 3.1 / 23036269-005 Roof Insulation- Perlite - Under Adhered EPDM	Brown Fibrous Homogeneous	70% Cellulose	30% Other	None Detected
RI 3.2 / 23036269-006 Roof Insulation- Perlite - Under Adhered EPDM	Brown Fibrous Homogeneous	70% Cellulose	30% Other	None Detected

Analyst: Darien E Williams
Analysis Date: 7/7/2023

Approved Signatory:
Date: 7/7/2023

Disclaimer

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced except in full without written approval of the laboratory to assure that parts of the report are not taken out of context. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. This report does not constitute and shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other U.S. governmental agencies and may not be certified by every local, state, and federal regulatory agencies.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:
Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

Asbestos Certifications
NVLAP lab code 200870-0
City of Philadelphia: ALL-460
PA Department of Environmental Protection Number: 68-05397
California License Number: 2915
Colorado License Number: AL-23143
Connecticut License Number: PH-0105
Massachusetts License Number: AA000222
Maine License Number: LB-0075, LA-0084
New York ELAP lab ID: 11983
Rhode Island License Number: PCM00126, PLM00126, TEM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia 3333000323
Washington State License Number: C989
West Virginia License Number: LT000616
Vermont License: AL166318
Louisiana Department of Environmental Quality: 212253, Cert 05088

Revision Date: 8/14/2020

SanAir
Technologies Laboratory

SanAir ID Number
23036269
FINAL REPORT
7/7/2023 11:51:30 AM

Name: HDH Technical, Inc.
Address: P.O. Box 6158
Christiansburg, VA 24073
Phone: 540-381-7999

Project Number: Roof
P.O. Number:
Project Name: Sandlick Elementary School
Collected Date: 7/3/2023
Received Date: 7/6/2023 10:20:00 AM

Dear Danner,

We at SanAir would like to thank you for the work you recently submitted. The 6 sample(s) were received on Thursday, July 06, 2023 via UPS. The final report(s) is enclosed for the following sample(s): RM 1.1, RM 1.2, RI 2.1, RI 2.2, RI 3.1, RI 3.2.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Sandra Sobrino

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:
- 6 samples in Good condition.

Photos

Sandlick Elementary School - Roof

The asphalt built up roof components, observed and sampled under BALLASTED roof sections, was found to be Asbestos Containing by the laboratory.

This material may exist in other locations, including under fully adhered roof sections.

Applicable Licenses

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation
9960 Mayland Drive, Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
05-31-2024

NUMBER
3303004166

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS
ASBESTOS INSPECTOR LICENSE

FREDERICK REED DANNER
755 B WEST MAIN ST
CHRISTIANSBURG, VA 24073-0000

DPOR

Daniel J. Mabe, Director

Status can be verified at http://www.dpor.virginia.gov

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation
9960 Mayland Drive, Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
12-31-2023

NUMBER
3303004480

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS
ASBESTOS INSPECTOR LICENSE

JARED ALLEN CROWDER
5789 TABERNACLE PL
PULASKI, VA 24301

DPOR

Status can be verified at http://www.dpor.virginia.gov

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DPOR-LIC (02/2017)