Otter River Roof Replacement Project
Bedford County Public Schools
Addendum 1
3/22/24

TO ALL BIDDERS: The following constitutes Addendum No. 1 for the Otter River Elementary Roof Replacement Project. This addendum shall be attached to the Contract Documents and shall be part thereof to the same extent as if it were originally included. The contractor shall be responsible for coordinating these changes as they affect other work in the Contract Documents.

Bidders shall acknowledge receipt of this addendum on their bid form.

Summary of Changes:

1. Replace existing section 000102 - TABLE OF CONTENTS with revised section attached.

2. Replace existing section 004113 - BID FORM with the revised section attached.

3. In section 011000 - SUMMARY paragraph 1.5 Section A.1, replace paragraph with the following: " Provide all labor, material, equipment, and supervision to replace existing EPDM roof with a new EPDM roof membrane and reusing existing ballast per contract documents. Also includes abatement in areas identified in the Hurt and Proffitt report dated 3/19/24 and included in section 020813"

4. In section 012100 - ALLOWANCES paragraph 3.3, add the following:
   "B. Allowance No. 2: Quantity Allowance: Base Bid shall include for 125 sf of abatement of Asbestos-Containing Black Roof Flashing Adhesivel per spec section 020813.
   C. Allowance No 3: Quantity Allowance: Base Bid shall include for 1 sf of abatement of Asbestos-Containing Black Pitch Pocket per spec section 020813
   D. Allowance No 4: Quantity Allowance: Base Bid shall include for 1 sf of abatement of Asbestos-Containing Black Wall Penetration Sealant per spec section 020813
   E. Allowance No 5: Quantity Allowance: Base Bid shall include for 5 sf of abatement of Asbestos-Containing Black Vent System Sealant per spec section 020813
   F. Allowance No 6: Quantity Allowance: Base Bid shall include for 9 sf of abatement of Asbestos-Containing Black Roofing System Flashing per spec section 020813"

5. Add attached section 020813 - ASBESTOS ABATEMENT

DOCUMENT 000102 – TABLE OF CONTENTS

END OF DOCUMENT 000102

DOCUMENT 004113 - BID FORM - STIPULATED SUM (SINGLE-PRIME CONTRACT)

1.1 BID INFORMATION

A. Bidder: _____.

B. Project Name: Otter River Elementary Roof Replacement

C. Project Location: 1044 Otter River Drive, Goode, VA 24556

D. Owner: Bedford County Public Schools.

1.2 CERTIFICATIONS AND BASE BID

A. Base Bid, Single-Prime (All Trades) Contract: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of the above-named project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of:

1. _____ Dollars ($_____).

Bedford County Public Schools
Otter River Elementary Roof Replacement

1.3 ALLOWANCE/UNIT PRICE SUMMARY TABULATION

	Description	Unit Price	Allowance Amount	Total
Allowance #1	Replace Insulation	per sqft	1,400 sqft.	
Allowance #2	ACM Black Roofing Flashing Adhesive Abatement	per sqft	125 sqft	
Allowance #3	ACM Black Pitch Pocket Abatement	per sqft	1 sqft	
Allowance #4	ACM Black Wall Penetration Sealant Abatement	per sqft	1 sqft	
Allowance #5	ACM Black Vent System Sealant Abatement	per sqft	5 sqft	
Allowance #6	ACM Black Roofing System Flashing Abatement	per sqft	9 sqft	
Unit Price #1	Wood Nailer Replacement	per linear foot	Unit Price Only	#####
Unit Price #2	Steel Deck Surface Rust Repair	per sqft	Unit Price Only	#####
Unit Price #3	Steel Deck infill	per sqft	Unit Price Only	#####

1.4 BID GUARANTEE

A. The undersigned Bidder agrees to execute a contract for this Work in the above amount after a written Notice of Award, if offered within 60 days after receipt of bids

1.5 TIME OF COMPLETION

A. The undersigned Bidder proposes and agrees hereby to commence the Work of the Contract Documents on a date specified in a written Notice to Proceed to be issued by the Owner, and shall fully complete the Work as specified in Section 001116.

~~1.6 SUBCONTRACTORS AND SUPPLIERS~~

~~A. The following companies shall execute subcontracts for the portions of the Work indicated:~~

1.7 ACKNOWLEDGEMENT OF ADDENDA

A. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:

1. Addendum No. 1, dated _____.
2. Addendum No. 2, dated _____.
3. Addendum No. 3, dated _____.
4. Addendum No. 4, dated _____.

1.8 SUBMISSION OF BID

A. Respectfully submitted this ____ day of _____, 2024.

B. Submitted By:_____(Name of bidding firm or corporation).

C. Authorized Signature:_____(Handwritten signature).

D. Signed By:_____(Type or print name).

E. Title:_____(Owner/Partner/President/Vice President).

F. Witnessed By:_____(Handwritten signature).
G. Attest:_____(Handwritten signature).

H. By:_____(Type or print name).

I. Title:_____(Corporate Secretary or Assistant Secretary).

J. Street Address:_____.

K. City, State, Zip:_____.

L. Phone:_____.

M. License No.:_____.

N. Federal ID No.:_____(Affix Corporate Seal Here).

END OF DOCUMENT 004113

ASBESTOS ABATEMENT DESIGN

March 22, 2024

Otter River Elementary School

1044 Otter River Drive
Goode, Virginia 24556

H&P PROJECT NO.
20240359

SUBMITTED TO:
Bedford County, VA Public Schools
310 South Bridge Street
Bedford, Virginia 24523

PREPARED BY:

Brian J. Trent
Environmental Project Manager
VA Asbestos Project Designer: 3305001411

Travis J. Wood
Environmental / IH Project Manager
VA Asbestos Project Designer: 3305001380

2524 Langhorne Road | Lynchburg, VA 24501
(434) 847-7796 | www.HandP.com

HURT & PROFFITT

Introduction

This asbestos abatement design has been written in accordance with local, state, and federal regulations/guidelines for the safe handling / removal of asbestos-containing materials in association with proposed roof replacement activities at the *Otter River Elementary School Facility* located at 1044 Otter River Drive in Goode, Virginia 24556. This design is for the explicit use of *Bedford County, Virginia Public Schools* and their chosen asbestos abatement contractor(s) and was written to aid *Bedford County, Virginia Public Schools* accomplish the safe removal of asbestos-containing materials in preparation of roof replacement activities.

The following will apply at all times for each portion of the asbestos removal process for all parts herein:

Code of Federal Regulation

- OSHA 29 CFR Part 1910.134-Respiratory Protection
- OSHA 29 CFR Part 1910.145-Accident Prevention
- OSHA 29 CFR Part 1926.1101–Asbestos Contractor
- OSHA 29 CFR Part 1910.1200-Hazard Communications
- USEPA 40 CFR Part 61-Asbestos National Emission Standards for Hazardous Air Pollutants
- USEPA 40 CFR Part 763-Asbestos Abatement Projects Rule
- USEPA Asbestos Hazard Emergency Response Act (AHERA)

Virginia Administrative Codes and Regulations

- VSWMR 9 VAC 20-80-640-Disposal of Special Waste
- VA DOLI-Title 40.1-Chapter 1-Department of Labor and Industry (40.1 thru 40.1-11.1)
- VA DOLI-Title 40.1-Chapter 3-Protection of Employees (40.1-22 thru 40.1-51.4:5)
- VA DOLI-Title 40.1-Chapter 3.2-Asbestos Notification (40.1-51.20 thru 40.1-51.22)
- VA DOLI-Title 40.1-Chapter 3.3-Virginia NESHAP Act (40.1-51.23 thru 40.1-51.41)
- Virginia Solid Waste Management Regulations (VSWMR)- 9-VAC-20-80-200, VSWMR-9 VAC 20-80-640
- Department of Professional and Occupational Regulation- Virginia Asbestos Regulation Part I 18VAC15 20-10-880

This design is based upon the *Roofing System Asbestos-Containing Material Inspection*, performed by Hurt & Proffitt, dated March 19, 2024 (enclosed). The asbestos abatement must be performed prior to asbestos-containing material disturbance.

The Contractor will perform each task within this design in accordance with Federal and State regulations, at all times.

Asbestos Abatement Design
Otter River Elementary School – Roof Replacement
1044 Otter River Drive; Goode, Virginia 24556

This asbestos-containing materials abatement protocol must be followed prior to the proposed roof replacement associated with the *Otter River Elementary School Facility*.

Scope of Work:
Appropriate removal and disposal of the following asbestos-containing building materials prior to proposed material disturbance / roof replacement activities:

Material	Location	Quantity
Asbestos-Containing Black Roofing Flashing Adhesive	Roofing System, Flashing	+/- 125 Square Feet (SF)
Asbestos-Containing Black Pitch Pocket	Pitch Pocket, East Entrance	+/- 1 Square Foot (SF)[1]
Asbestos-Containing Black Wall Penetration Sealant	Roofing System, East Entrance	+/- 1 Square Foot (SF)[1]
Asbestos-Containing Black Vent System Sealant	Vent System, Roofing System, Boiler Room	+/- 5 Square Feet (SF)
Asbestos-Containing Black Roofing System Flashing	Canopy Roofing System, Cafeteria Entrance	+/- 9 Square Feet (SF)
Asbestos-Containing Grey Cementitious Fascia Board[2]	Roofing System Fascia	+/- 1,200 Square Feet (SF)

Table Notes:

1. [1] Additional asbestos-containing black pitch pocket and black wall penetration sealant materials may exist, either undetected or inaccessible, within other areas of the roofing system.
2. [2] Based upon location and proposed roof replacement activities, the asbestos-containing Grey Cementitious Fascia Board may not be disturbed during abatement activities. If incidentally disturbed during roof replacement activities, the provisions of this abatement design shall apply.

The abatement shall include all materials, labor, equipment and incidentals for the removal and disposal of all asbestos containing materials referenced above and additional “other” asbestos-containing materials that may not have been identified as part of the original roof inspection but may be encountered during renovation or during the asbestos abatement activities as addressed within this specification.

The Contractor shall have a Competent Person/Supervisor present at all times when work on this contract is in progress. The Competent Person/Supervisor shall be thoroughly familiar and experienced with asbestos removal and related work and shall be familiar with and shall enforce the use of all safety procedures and equipment. He or She shall be knowledgeable of all EPA, OSHA, and Virginia requirements and guidelines.

Notifications:

The Virginia Department of Labor and Industry (VA DOLI) *Asbestos Notification and Permit Program* regulations require written notification by licensed asbestos abatement contractors for any asbestos abatement project that is at least ten (10) linear feet (LF) or ten (10) square feet (SF); notification is not required for non-friable asbestos-containing roofing, flooring, or siding materials which when installed, encapsulated, or removed do not become friable. The asbestos abatement contractor or facility owner must submit an *Asbestos Notification of Demolition and Renovation Form* to the VA DOLI along with the appropriate fees within at least twenty (20) calendar days prior to the scheduled asbestos removal activity or renovation start date by certified mail or hand delivery. Notifications should be sent to the following:

Asbestos Program
Virginia Department of Labor and Industry
Powers-Taylor Building
13 South Thirteenth Street
Richmond, Virginia 23219

***Additionally*,** the United States Environmental Protection Agency (US EPA) must be notified for any asbestos projects that are at least one-hundred and sixty (160) square or two-hundred and sixty (260) linear feet and for all demolition/renovation projects (where a load-bearing component is removed), regardless of whether asbestos-containing materials are present in the structure or facility. Notifications required by the US EPA must be sent to the Department as described above, except the notification period is ten (10) working days. NESHAP required notifications must be mailed to the US EPA at the following address:

Asbestos Coordinator
US EPA Region III
Mail Code 3LC62
1650 Arch Street
Philadelphia, Pennsylvania 19103

The Contractor shall notify the appropriate agencies of the asbestos removal project, if required. Copies of the written notification shall be available to the Owner, as requested. The Contractor shall secure or confirm all necessary building and asbestos permits as required by state and/or local building codes.

Worker PPE:

Asbestos-trained personnel entering each regulated work area will don the following Personal Protective Equipment (PPE):

1. Disposable suits, Tyvek ® or equivalent, which will include a hood and foot covering
2. Powered Air Purifying Respirators (PAPRs) or half (½) face respiratory protection with P-100 filter cartridges
3. Safety glasses will be worn with half (½) face respirators
4. Rubber disposable gloves or equivalent for tasks to be performed
5. Hard hats
6. Rubber disposable foot coverings (while performing abatement activities on slippery surfaces, i.e.: asbestos-containing flooring mastic removal)

All asbestos abatement activities will be performed by Virginia Department of Professional and Occupational Regulation (VA DPOR) licensed asbestos abatement supervisors and workers. Each worker will comply with all applicable United States Environmental Protection Agency (US EPA), United States Occupational Safety and Health Administration (US OSHA) and State of Virginia regulations.

Execution:

Work practices conducted on-site shall be in strict compliance with this project design specification, state, federal, and local regulations. When conflicts occur between the project design documents and applicable state, federal, and/or local regulations, the most stringent course of action shall apply.

Set-up:

Prior to asbestos abatement activities the following will be performed:

1. Establish the regulated work area: "Danger Asbestos Caution" tape will be strung in place outside of the working area(s) during abatement activities until required clearance and/or re-occupancy has been allowed through visual inspection by the Project Monitor/Inspector. Further, the Contractor shall post all OSHA and US EPA documents and approved warning signs, at a minimum, and provide any physical barriers required to protect equipment as well as the work area from being entered by unauthorized person(s).
2. A disposable drop cloth, constructed of 6 mil polyethylene sheeting, will be required within the regulated work area(s), as applicable.
3. The decontamination unit(s) shall be located at the entrance to the work area, which may be located at the base of ladders and/or equipment to access the roof from the exterior of the facility. Only one primary means of ingress shall normally be allowed.
4. Asbestos-containing debris (friable or non-friable) encountered during Task 1 will be removed from the planned regulated work area and will be disposed of as required by State and Federal regulations in a licensed landfill, regulated by the Virginia Department of Environmental Quality (VA DEQ).
5. After work area isolation, the Contractor, if applicable, shall remove all detachable electrical, heating, ventilation, air-conditioning equipment or ducts, or other items located on or in contact with the asbestos materials (if warranted). These items shall be vacuumed with the HEPA filtered vacuum and wet cleaned, wrapped in 6 mil plastic, and stored in the work area in a secure area. Any items requiring special protection such as corner guards, wall moldings or fixtures shall be thus protected to the satisfaction of the project monitor, however; the protection from damage shall be the sole responsibility of the Contractor.
6. Stationary items that cannot be removed from the regulated work area must be covered with a disposable drop cloth, preferably made of fire-retardant reinforced polyethylene sheeting.

Decontamination Chamber: (Class I Abatement Activity):
As applicable, if the asbestos-containing material is deemed friable during removal/abatement, a decontamination enclosure, which meets the requirements of 29 CFR 1926.1101, shall be constructed, where necessary and deemed adequate by the onsite Project Monitor, **prior to the commencement of any work area preparation**.

1. The entrance to each regulated work area will be provided with a personnel decontamination chamber with a working shower providing hot and cold water from a portable water heater (as applicable, based upon location).
2. Each stage of the decontamination chamber will be separated by an air lock.
3. The personnel decontamination unit shall be equipped with one (1) shower per six (6) full shift abatement workers.
4. Disposable six (6) mil polyethylene ACM bags will be placed in each dirty room of each three (3) stage decontamination chamber. The bags will be utilized for the disposal of the disposable protective suits worn by each worker as they exit the regulated work area(s).
5. Soap will be provided and stored in the shower stage.
6. Disposable towels will be provided and placed in the clean room at the shower exit.
7. Chairs and/or benches will be provided in the clean room.
8. Storage areas will be provided for each worker to store personal items and street clothes.
9. Supervisor and worker licenses will be posted near the entrance of the decontamination chamber.
10. Only Virginia Department of Professional and Occupational Regulation (VA DPOR) licensed asbestos workers, supervisors, and the contracted (third-party) Project Monitor/Inspector will be allowed to enter the regulated work area through the decontamination chamber.
11. The decontamination unit shall be cleaned at the beginning, during, and end of each work shift. Dirt and/or debris in the decontamination unit shall not be permitted.
12. Decontamination unit wastewater shall be collected and/or filtered in accordance with Virginia Department of Environmental Quality (VA DEQ) or United States Environmental Protection Agency (US EPA) regulations.

Utilities
The Contractor shall be responsible for coordinating the shutdown of electrical power to each work area(s), i.e.: Lock Out / Tag Out. If the power may not be turned off, all power sources shall be wrapped in three (3) individual layers of fire retardant six (6) mil polyethylene sheeting and labeled “DANGER, LIVE ELECTRIC”. Further, the Contractor shall be responsible for the maintenance of all electrical cords and water hoses and keeping them in a secure location to prevent unnecessary tripping hazards.

The Contractor shall be responsible for coordinating any HVAC shutdown and isolation with *Bedford County, Virginia Public Schools* personnel.

General Asbestos-Containing Material Handling Requirements:
The following general guidelines/requirements shall be followed by the Contractor during the performance of the above described scope of work (abatement process):

1. Asbestos abatement activities shall be performed utilizing wet methods **ONLY**.
2. Dry removal, sweeping, wire brushing, removal methods utilizing pressurized water or air, or other inappropriate asbestos abatement techniques **will not be permitted**.

3. Loose asbestos-containing waste shall be immediately bagged and transported to the waste decontamination enclosure. The waste bag shall then be cleaned (within the waste decontamination enclosure), double bagged, appropriately labeled with a generator label, and transported to the waste dumpster, trailer, or other waste receptacle.
4. The Contractor shall not allow asbestos-containing debris and/or waste to accumulate within the work area(s). Visible dust and debris shall be wet wiped with amended water and HEPA vacuumed during abatement activities to minimize potential fiber release.

5. Waste bag transfer shall take place inside a cart (or other transportation device) that has been lined with two (2) layers of six (6) mil polyethylene sheeting. The transportation device must also be covered by polyethylene sheeting during any waste transfer activities and be labeled with an approved asbestos danger sign.
6. Personal Protective Equipment (PPE) will be required during asbestos abatement activities, cleaning, and during any other work area activities which could potentially disturb asbestos-containing materials until final air clearance criteria have been achieved.

Removal Operations

After all work area isolation procedures have been satisfactorily performed, and the pre-removal inspection approved by the Project Monitor, the Contractor shall begin asbestos abatement of the material. All work methods utilized shall be in compliance with OSHA regulations (29 CFR 1926.1101) governing Class II activities.

Once the asbestos containing material or items attached to the asbestos containing material has been disturbed, all personnel shall access and egress through the decontamination area only (except for emergency situations). The following general procedures shall be adhered to when personnel are entering or exiting the work area:

1. All workers shall change work clothes at the designated change areas prior to the start of the day's work. The Contractor for the storage of the workers' clothes and personal belongings should provide lockers or other acceptable substitutes.
2. All workers and authorized visitors shall, each time they leave the work area: remove gross contamination from clothing before leaving the work area via HEPA vacuum; proceed to the single "pop up" unit and remove all clothing except respirators; still wearing respirator proceed to a second "pop up" unit where the exterior of the respirator is to be wiped clean prior to removal, just outside of the entrance to the pop up unit.
3. All disposable clothing, towels, and other asbestos contaminated materials shall be disposed of as asbestos contaminated materials.
4. These procedures shall be adhered to whenever the workers exit the work area, including breaks, lunch, end of day, or being called out of area.
5. Water in basins or spray bottles, towels, soap, and hygiene conditions shall be the responsibility of the Contractor.
6. All footwear shall remain inside the work area until the completion of the project, and then only plastic or rubber footwear thoroughly cleaned shall be removed. All other footwear shall be disposed of as asbestos containing waste.
7. Only equipment necessary for the asbestos abatement operations shall be allowed in the work area and should therefore not be allowed to be taken into the decontamination unit.

Once the asbestos-containing materials have been removed, all generated waste will be placed into 6-mil polyethylene bags. **Note:** All materials that are brought into the work area must be either decontaminated or disposed of as asbestos waste. All bags will be sealed by goose necking and wrapped with duct tape. Prior to leaving the regulated work area, asbestos-containing waste will be placed in a second bag and goose-necked (both the inner bag and outer bag separately, sealed, labeled, and placed in an appropriate asbestos shipping container. **Note:** All asbestos shipping containers will be sealed and secured at the end of each work shift.

Once the Contractor has removed all visible asbestos-containing materials, and is ready for final cleanup, the Project Monitor shall hold a post removal work inspection. This inspection shall determine whether all materials have been removed and the area sufficiently cleaned prior to proceeding with the next activity. The Contractor shall remedy any deficiency prior to beginning the final cleanup operations.

ACM Storage, Transportation, and Disposal (All Forms):

Only regulated asbestos waste that has been properly encapsulated/containerized, deemed to be adequately wet per United States Environmental Protection Agency (US EPA) definition, shall be transported from the point of generation. Transportation of regulated asbestos waste will be in conformance with the United States Department of Transportation (US DOT) Regulations 49 CFR Part(s) 172 and 173, United States Environmental Protection Agency (US EPA) NESHAPs Regulations 40 CFR Part 61, and all applicable Commonwealth of Virginia laws and regulations.

1. Bags, drums, or other acceptable packaging materials used for the transport of regulated asbestos-containing waste shall be labeled as asbestos-containing and have affixed upon it a waste generator tag/label.
2. Two (2) six (6) mil polyethylene bags or sheeting shall be utilized for the disposal of all asbestos-containing wastes generated as part of the asbestos abatement process.
3. The interior of lined dumpster and/or box truck will be lined with two (2) layers of six (6) mil polyethylene sheeting. The exterior of the container will be placarded and identified as containing asbestos materials.
4. The asbestos-containing waste will only be hauled by permitted waste haulers that have been trained to identify the presence of asbestos if a spill occurs during transport to the landfill. Waste vehicles used for the transport of asbestos shall bear all appropriate licenses, labels and/or placards in accordance with US DOT requirements. Waste vehicle drivers must have at a minimum two (2) hour OSHA asbestos-awareness training prior to transporting asbestos waste from the site.
5. All waste shall be sent to an approved, Virginia Department of Environmental Quality (VA DEQ) licensed landfill, that accepts friable asbestos-containing waste. Waste manifests shall accompany all waste that leaves the project location. In addition, copies of the waste manifests shall be submitted to the Owner within seventy-two (72) hours of leaving site, illustrating delivery to the waste facility/landfill.
6. A daily count of waste bags and/or wrapped window units shall be calculated by the Asbestos Abatement Supervisor. This count shall be given daily to the onsite Project Monitor.

Inspections / Project Monitoring:

Inspections:
The Contractor shall not interfere, impede, or delay any inspections by the Owner's designated representative(s), the Project Monitor, and/or State, Federal, or Local Inspectors.

OSHA Personal Monitoring:
Personnel will be provided with OSHA required personnel monitoring devices to be paid for by the employing contractor and not the owner of the facility; one (1) worker for every four (4) workers inside the regulated work area shall don a personal monitoring pump. The personal monitoring samples shall be collected and analyzed daily. The air sample results shall be posted on-site within twenty-four (24) hours of collection. At a minimum one (1) 30-minute excursion limit (EL) shall be run at the height of abatement activities daily. At a minimum (one) 8-hour sample shall be run to establish the 8-hour Time Weighted Average (TWA). NIOSH method 7400 analysis for Phase Contrast Microscopy (PCM) shall be utilized by the laboratory to determine the presence of potential fibers.

Area environmental monitoring samples shall be provided by a third-party monitoring firm (detailed below).

Third-Party Project Monitoring and Air Sampling:
The onsite Project Monitor / Air Sampling Technician will be responsible for the following:

1. Visual inspections of abatement work area preparation completion, asbestos abatement completion, and cleanliness in accordance with American Society for Testing and Materials (ASTM) Standard Practice *E1368-14 Standard Practice for Visual Inspection of Asbestos Abatement*.
2. Conducting daily work-in-progress (WIP) environmental air sampling during the asbestos abatement process to ensure asbestos fibers are not entering the structure or leaving the designated work area(s).
3. Providing daily Contractor oversight to ensure Contractor compliance with the laws and regulations governing asbestos abatement procedures in the Commonwealth of Virginia, in accordance with this specification.

The Project Monitor has the authority to stop the Contractor's work, if in their judgment, there is a risk to the health & safety of building occupants, abatement workers and/or the environment due to the Contractor's actions and/or the Contractor is not following the contractual design specifications and all applicable laws. Work shall only be permitted to commence if allowed by the Owner, or their environmental consultant and corrective actions have taken place. The Contractor acknowledges that it is their responsibility to follow all applicable laws pertaining to asbestos abatement and the job specifications, and failure to do so may result in lost time and/or dismissal from the site at no cost to the Owner or their environmental consultant. The Contractor shall not be compensated for any lost time, labor, materials, etc., due to inappropriate actions.

Virginia Department of Professional and Occupational Regulation (VA DPOR)
Asbestos Project Designer License(s)

COMMONWEALTH of VIRGINIA

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

EXPIRES ON
07-31-2024

NUMBER
3305001380

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS
ASBESTOS PROJECT DESIGNER LICENSE

TRAVIS JAMES WOOD
445 RUCKERS ROAD
CONCORD, VA 24538

DPOR

Demetrios J. Melis, 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
06-30-2024

NUMBER
3305001411

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS
ASBESTOS PROJECT DESIGNER LICENSE

BRIAN JUSTIN TRENT
307 RECTOR ROAD
CONCORD, VA 24538

DPOR

Demetrios J. Melis, Director

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

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)

***Roofing System Asbestos-Containing Material Inspection*, performed by Hurt & Proffitt, dated March 19, 2024**

March 19, 2024

Mr. Charles Santore, Clerk of the Works **Via Email**
Bedford County Public Schools
310 South Bridge Street
Bedford, Virginia 24523

Re: Roofing System Asbestos-Containing Material Inspection
Otter River Elementary School
1044 Otter River Drive; Goode, Virginia 24556
Hurt & Proffitt Project: 20240359

Mr. Santore:

The employee-owners of Hurt & Proffitt, Inc. (H&P) are pleased to provide this document and enclosures as the *Asbestos-Containing Material Inspection Report* associated with the roofing system(s) located upon the *Otter River Elementary School* at 1044 Otter River Drive in Goode, Virginia 24556.

1.0 Asbestos-Containing Material (ACM) Survey and Laboratory Procedures

Inspection / assessment activities were performed in compliance with United States Occupational Safety and Health Administration (US OSHA) and United States Environmental Protection Agency (US EPA) National Emission Standards for Hazardous Air Pollutants (NESHAPs) on March 7, 2024, by Hurt & Proffitt representatives, Mr. Brian J. Trent (Virginia Asbestos Inspector: 3303003533) and Mr. Travis J. Wood (Virginia Asbestos Inspector: 3303004688). Copies of Mr. Trent's and Mr. Wood's Virginia Department of Professional and Occupational Regulation (VA DPOR) Asbestos Inspector License(s) are enclosed for your review.

Physical inspection/assessment activities were performed throughout the entirety of the roofing system associated with the above referenced facility to determine the extent and locations of suspect asbestos-containing materials and potential degree of abatement activities to take place for the proposed roof replacement. **Note:** Bulk material sample collection efforts were limited to those materials which were readily and safely accessible and which could be sampled without damaging existing systems/structures.

Suspect bulk samples were collected and logged on chain-of-custody forms as representative of suspect homogenous materials (based on material type, color, texture, etc.), from the functional spaces as they were determined by visual observations in the field.

Twenty-two (22) suspect asbestos-containing bulk material samples, including triplicate sets, were submitted for analysis by EPA Method No. 600/R-93/116 and 600/M4-82-020 (polarized light microscopy (PLM)). All samples were analyzed by SanAir Technologies Laboratory of North Chesterfield, Virginia, a NVLAP accredited laboratory licensed to perform asbestos bulk analysis within the State of Virginia under positive stop protocol. Under microscopy, an additional nine (9) material layers were identified; therefore, a total of thirty-one (31) analyses were conducted to complete this report.

The following materials were identified to be **asbestos-containing**:

- **Black Roofing Flashing Adhesive – Roofing System, Flashing**
- **Black Pitch Pocket – Roofing System, East Entrance (<1% Chrysotile)**
- **Black Wall Penetration Sealant – Roofing System, East Entrance**
- **Grey Cementitious Fascia Board – Roofing System, Fascia**
- **Black Vent System Sealant – Vent System, Boiler Room**
- **Black Flashing – Canopy Roofing System, Cafeteria Entrance**

The following table (Table I) illustrates the sample identification, location, and analytical results as received from the laboratory. A copy of the laboratory results and sample chain-of-custody are additionally enclosed for your review.

Table I
Asbestos-Containing Bulk Material Sample Analysis Summary
Otter River Elementary School Roofing System(s)

Sample No.	Material Description/	Location	Estimated Quantity	Lab Results (% Asbestos)	Condition/ Friable Y/N
003-RFFLSH-ABC	**BLACK ROOFING FLASHING ADHESIVE**	**ROOFING SYSTEM, FLASHING**	**+/- 125 SF**	**10% CHRYSOTILE**	**FAIR / N**
005-PP-A	**BLACK PITCH POCKET**	**ROOFING SYSTEM, PITCH POCKET, EAST ENTRANCE**	**+/- 1 SF[1]**	**<1% CHRYSOTILE**	**FAIR / N**
006-WLPS-AB	**BLACK WALL PENETRATION SEALANT**	**ROOFING SYSTEM, EAST ENTRANCE**	**+/- 1 SF[1]**	**4% CHRYSOTILE**	**FAIR / N**
008-CEMB-A	**GREY CEMENTITIOUS FASCIA BOARD**	**ROOFING SYSTEM FASCIA**	**+/- 1,200 SF**	**15% CHRYSOTILE**	**FAIR / N**
010-VS-A	**BLACK VENT SYSTEM SEALANT**	**VENT SYSTEM, ROOFING SYSTEM, BOILER ROOM**	**+/- 5 SF**	**10% CHRYSOTILE**	**FAIR / N**
012-RFFLSH-A	BLACK ROOFING MATERIAL	**CANOPY ROOFING SYSTEM, CAFETERIA ENTRANCE**	**+/- 9 SF**	NONE DETECTED	**FAIR / N**
	BLACK FLASHING			**15% CHRYSOTILE**	
INTENTIONALLY LEFT BLANK					
001-RFCORE-ABC	BALLAST ROOFING SYSTEM ROOF CORE (LAYERED)	ROOFING SYSTEM, MAIN FIELD	N/A	NONE DETECTED	N/A
002-RFCORE-AB	ROOFING SYSTEM CORE (LAYERED)	ROOFING SYSTEM, MAIN FIELD, EAST ENTRANCE	N/A	NONE DETECTED	N/A
004-RFVS-AB	WHITE ROOF VENT SEALANT	VENT SYSTEM, EAST ENTRANCE ROOFING SYSTEM	N/A	NONE DETECTED	N/A
007-HVAC-AB	ROOF MOUNTED HVAC SYSTEM DUCT SEALANT	ROOFING SYSTEM, EAST ENTRANCE	N/A	NONE DETECTED	N/A

Sample No.	Material Description/	Location	Estimated Quantity	Lab Results (% Asbestos)	Condition/ Friable Y/N
009-CHFLSH-A	BLACK CHIMNEY FLASHING	CHIMNEY UNIT, BOILER ROOM	N/A	NONE DETECTED	N/A
011-VCLK-AB	WHITE VENT SYSTEM CAULK	ROOFING SYSTEM, CAFETERIA	N/A	NONE DETECTED	N/A
013-RFCORE-A	ROOFING SYSTEM CORE (LAYERED)	CANOPY ROOFING SYSTEM, CAFETERIA ENTRANCE	N/A	NONE DETECTED	N/A

Table Notes:

1. [1] Additional asbestos-containing black pitch pocket and black wall penetration sealant materials may exist, either undetected or inaccessible, within other areas of the roofing system.
2. (ABC) following sample identification denotes multiple samples collected of the same homogenous material from various functional spaces of the structure.
3. Sample Analysis was performed under "Positive Stop" protocol, i.e.: the laboratory analyzed multiple samples of similar material and stopped analysis when asbestos fibers were identified.
4. **Contractor is responsible for field verification of quantities and locations of asbestos-containing materials and presumed asbestos-containing materials referenced throughout this report.**

A copy of the laboratory report of analysis, along with drawing(s) illustrating sample collection location(s) and identified asbestos-containing material locations, are enclosed for your review.

Discussion and Recommendations

In order to obtain a building permit, this report must accompany the application to the county, town and/or city for which the work is to take place. It is the responsibility of the contractor performing the abatement and/or building renovation or demolition activities that the proper permits are obtained and notifications for each type of activity be performed as required by state and federal guidelines.

Local, state, and federal law requires regulated asbestos-containing materials (RACM) to be removed prior to renovation and/or demolition. The definition of RACM as defined by the US EPA NESHAPs as follows:

"Regulated Asbestos-Containing Material" (RACM) is (a) friable asbestos material, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

It is required that Category II Non-Friable asbestos-containing materials be removed prior to the commencement of proposed roof replacement activities, if such asbestos-containing materials may be disturbed or damaged:

- **Category II Non-Friable Grey Cementitious Fascia Board – Roofing System Fascia**

Hurt & Proffitt recommends the following asbestos-containing materials be removed prior to proposed roofing system replacement activities that may damage the materials and subsequently cause fiber release:

- **Category I Non-Friable Black Roofing Flashing Adhesive – Roofing System, Flashing**
- **Category I Non-Friable Black Wall Penetration Sealant – Roofing System, East Entrance**
- **Category I Non-Friable Black Vent System Sealant – Vent System, Boiler Room**
- **Category I Non-Friable Black Flashing – Canopy Roofing System, Cafeteria Entrance**
- **Category I Non-Friable Black Pitch Pocket – Roofing System, East Entrance (<1% Chrysotile)**

Note: Based upon our experience, we recommend that all asbestos-containing materials (ACM) be removed prior to renovation activities, due to the fact that disturbance can damage the materials, create potential exposure to workers and occupants, and additionally make the materials friable. This recommendation is made as a best management practice (BMP) to reduce potential exposure and limit liability.

Less than one percent (<1%) or trace concentrations of asbestos mineral(s) does not meet the definition as an asbestos-containing material as defined by the United States Environmental Protection Agency (US EPA); however, the material does require personnel removing removal/abatement actions to be certified to perform said work, with a competent person, i.e.: Virginia Department of Professional and Occupational Regulation (VA DPOR) Asbestos Supervisor, managing the project. Removal of less than one percent (<1%) or trace materials is considered "non-classified" by the United States Occupational Safety and Health Administration (US OSHA) and must be performed in a designated work area with generated waste being containerized in accordance with US OSHA standards during the removal / abatement, however, the waste may be disposed of as construction debris. **Note:** Local regulations may be more stringent; therefore, it is advisable for the contractor to check local regulations for proper removal and disposal requirements.

It is ***required*** that a Virginia Department of Professional and Occupational Regulation (VA DPOR) licensed asbestos abatement contractor perform the removal of each of the asbestos-containing materials described within this report. ***Further***, the Virginia Department of Labor and Industry (VA DOLI) *Asbestos Notification and Permit Program* regulations require written notification by licensed asbestos abatement contractors for any asbestos abatement project that is at least ten (10) linear feet (LF) or ten (10) square feet (SF); **notification is not required for non-friable asbestos-containing roofing, flooring, or siding materials which when installed, encapsulated, or removed do not become friable.** The asbestos abatement contractor or facility owner must submit an *Asbestos Notification of Demolition and Renovation Form* to the VA DOLI along with the appropriate fees within at least twenty (20) calendar days prior to the scheduled asbestos removal activity or renovation start date by certified mail or hand delivery. Notifications should be sent to the following:

Asbestos Program
Virginia Department of Labor and Industry
Powers-Taylor Building
13 South Thirteenth Street
Richmond, Virginia 23219

***Additionally*,** the United States Environmental Protection Agency (US EPA) must be notified for any asbestos projects that are at least one-hundred and sixty (160) square or two-hundred and sixty (260) linear feet and for all demolition projects (removal of load-bearing structural components), regardless of whether asbestos-containing materials are present in the structure or facility. Notifications required by the US EPA must be sent to the Department as described above, except the notification period is ten (10) working days. NESHAP required notifications must be mailed to the US EPA at the following address:

Asbestos Coordinator
US EPA Region III
Mail Code 3LC62
1650 Arch Street
Philadelphia, Pennsylvania 19103

Hurt & Proffitt can perform the ***required*** third-party asbestos project monitoring, which will help maintain the integrity of the abatement process, solidify that the abatement process has been completed correctly, through final visual clearance inspection(s) and final air clearance sampling in compliance with NIOSH 7400 Phase Contrast Microscopy (PCM) methodologies. As third-party monitor, we will reduce the liability for which the Client and/or the Contractor may incur if there should happen to be a violation determined by state and/or federal code enforcement personnel that may visit the site during the removal/abatement process.

Our recommendations are based on the guidelines presented by the United States Occupational Safety and Health Administration (US OSHA), United States Environmental Protection Agency (US EPA), and the Commonwealth of Virginia. Any conditions discovered which deviate from the data contained in this report should be presented to us for our evaluation.

Note: *During the process of this inspection/assessment, bulk material sampling was limited to those materials which were within the areas designed by the Client, which were safely accessible, and which were able to be sampled without damaging systems and/or structures (as requested by Client). As such, additional asbestos-containing materials (ACM) or presumed asbestos-containing materials (PACM) may exist, either undetected and/or inaccessible) within other areas of the structure. If additional suspect materials are discovered during either the asbestos-containing material abatement or renovation activities, all work on the site must stop and the newly identified material(s) sampled by a Virginia licensed asbestos inspector and evaluated for asbestos content.*

2.0 Limitations

This report summarizes the results of Hurt & Proffitt's *Asbestos-Containing Material Inspection* located at the above referenced project based upon our understanding of the requested scope of services. The findings prepared by Hurt & Proffitt are based upon our observations and the analytical analysis of the suspect bulk samples collected at the time of our field inspection. The services performed were provided in accordance with generally accepted environmental industry standard practices. No warranty, expressed or implied, are made. Our observations, conclusions, and recommendations are based upon conditions readily visible at the time of our field inspection, the results of analytical testing, and information provided to us by others.

Our conclusions and recommendations are based upon the guidelines presented to us by the United States Environmental Protection Agency (US EPA), United States Occupational Safety and Health Administration (US OSHA), and the Commonwealth of Virginia. Any conditions which deviate from the data contained within this report should be presented to Hurt & Proffitt for our evaluation and comment.

During Hurt & Proffitt's non-invasive inspection, accessible areas were visually surveyed for the presence of suspect asbestos-containing materials. Locations and areas reviewed were limited to those identified by the Client and those that could be readily and safely accessed. Our conclusions and recommendations are based on the results of our sampling and analysis activities and cannot be used to form a professional opinion of conditions in others area beyond those from which the bulk material samples were collected. It is possible that inaccessible areas, such as behind walls or above ceilings, may not have been surveyed and therefore, conditions in these areas are unknown.

During this inspection, suspect asbestos-containing material samples were submitted for analysis at an NVLAP-accredited laboratory via polarized light microscopy (PLM). With any similar survey of this nature, actual conditions exist only at the precise locations from which the bulk material samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected.

Hurt & Proffitt assumes no responsibility regarding response actions initiated as a result of our findings, nor liability for the duties and responsibilities of the Client or Building Owner with respect to compliance with applicable regulations. Compliance with local, state, and/or federal requirements / regulations are the responsibility of the Client or Building Owner.

3.0 Closing

Thank you for allowing Hurt & Proffitt the opportunity to be of service to you. Should you have any questions and/or concerns, please do not hesitate to contact the undersigned via email or by telephone at 434.847.7796.

Respectfully,
Hurt & Proffitt, Inc.

Brian J. Trent
Environmental Project Manager
btrent@handp.com

W. Chris Nixon, Vice President
Director of Environmental Services
cnixon@handp.com

Enclosures:

Asbestos Inspector License(s)
Laboratory Report of Analysis – Suspect Bulk Material Samples
Sample Collection Location Drawing(s)
Project Drawing(s)

COMMONWEALTH of VIRGINIA

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

EXPIRES ON
07-31-2024

NUMBER
3303004688

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

TRAVIS JAMES WOOD
445 RUCKERS ROAD
CONCORD, VA 24538

DPOR

Demetrios J. Melis, 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
3303003533

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

BRIAN JUSTIN TRENT
307 RECTOR ROAD
CONCORD, VA 24538

DPOR

Demetrios J. Melis, Director

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

DPOR-LIC (02/2017)

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

SanAir Technologies Laboratory

The Identification Specialists

Analysis Report prepared for Hurt & Proffitt, Inc.

Report Date: 3/15/2024

Project Name: Otter River Elementary

Project #: 20240359

SanAir ID#: 24013938

NVLAP TESTING

NVLAP LAB CODE 200870-0

10501 Trade Court | North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax 804.897.0070 | IAQ@SanAir.com | SanAir.com

SanAir ID Number
24013938
FINAL REPORT
3/15/2024 4:38:54 PM

Name: Hurt & Proffitt, Inc.
Address: 2524 Langhorne Road
Lynchburg, VA 24501
Phone: 434-841-3893 (c)

Project Number: 20240359
P.O. Number: 20240359
Project Name: Otter River Elementary
Collected Date: 3/7/2024
Received Date: 3/8/2024 10:20:00 AM

Dear Brian Trent,

We at SanAir would like to thank you for the work you recently submitted. The 22 sample(s) were received on Friday, March 08, 2024 via UPS. The final report(s) is enclosed for the following sample(s): 001-RFCORE-A, 001-RFCORE-B, 001-RFCORE-C, 002-RFCORE-A, 002-RFCORE-B, 003-RFFLSH-A, 003-RFFLSH-B, 003-RFFLSH-C, 004-RFVS-A, 004-RFVS-B, 005-PP-A, 006-WLPS-A, 006-WLPS-B, 007-HVAC-A, 007-HVAC-B, 008-CEMB-A, 009-CHFLSH-A, 010-VS-A, 011-VCLK-A, 011-VCLK-B, 012-RFFLSH-A, 013-RFCORE-A.

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
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

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

Sample conditions:
- 22 samples in Good condition.

SanAir Technologies Laboratory

SanAir ID Number
24013938
FINAL REPORT
3/15/2024 4:38:54 PM

Name: Hurt & Proffitt, Inc.
Address: 2524 Langhorne Road
Lynchburg, VA 24501
Phone: 434-841-3893 (c)

Project Number: 20240359
P.O. Number: 20240359
Project Name: Otter River Elementary
Collected Date: 3/7/2024
Received Date: 3/8/2024 10:20:00 AM

Analyst: Mayes, Jean

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
001-RFCORE-A / 24013938-001 Ballast Roofing System Roof Core, Insulation (Layered), Insulation	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
001-RFCORE-A / 24013938-001 Ballast Roofing System Roof Core, Insulation (Layered), Paper	Grey Fibrous Heterogeneous	95% Cellulose	5% Other	None Detected
001-RFCORE-B / 24013938-002 Ballast Roofing System Roof Core, Insulation (Layered), Insulation	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
001-RFCORE-B / 24013938-002 Ballast Roofing System Roof Core, Insulation (Layered), Paper	Grey Fibrous Heterogeneous	95% Cellulose	5% Other	None Detected
001-RFCORE-C / 24013938-003 Ballast Roofing System Roof Core, Insulation (Layered), Insulation	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
001-RFCORE-C / 24013938-003 Ballast Roofing System Roof Core, Insulation (Layered), Paper	Grey Fibrous Heterogeneous	95% Cellulose	5% Other	None Detected
002-RFCORE-A / 24013938-004 Roof Core (Layered), Insulation	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
002-RFCORE-A / 24013938-004 Roof Core (Layered), Paper	Grey Fibrous Heterogeneous	95% Cellulose	5% Other	None Detected
002-RFCORE-A / 24013938-004 Roof Core (Layered), Plaster	Grey Non-Fibrous Heterogeneous		100% Other	None Detected
002-RFCORE-A / 24013938-004 Roof Core (Layered), Tectum	Brown Fibrous Heterogeneous	90% Cellulose	10% Other	None Detected

Analyst: J. Mayes
Analysis Date: 3/15/2024

Approved Signatory: Johnathan Wilson
Date: 3/15/2024

SanAir Technologies Laboratory

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3/15/2024 4:38:54 PM

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Project Name: Otter River Elementary
Collected Date: 3/7/2024
Received Date: 3/8/2024 10:20:00 AM

Analyst: Mayes, Jean

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
002-RFCORE-B / 24013938-005 Roof Core (Layered), Insulation	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
002-RFCORE-B / 24013938-005 Roof Core (Layered), Paper	Grey Fibrous Heterogeneous	95% Cellulose	5% Other	None Detected
002-RFCORE-B / 24013938-005 Roof Core (Layered), Roofing	Black Non-Fibrous Heterogeneous	10% Cellulose	90% Other	None Detected
002-RFCORE-B / 24013938-005 Roof Core (Layered), Tectum	Brown Fibrous Heterogeneous	95% Cellulose	5% Other	None Detected
003-RFFLSH-A / 24013938-006 Roofing Flashing Adhesive	Black Non-Fibrous Homogeneous		90% Other	10% Chrysotile
003-RFFLSH-B / 24013938-007 Roofing Flashing Adhesive				Not Analyzed
003-RFFLSH-C / 24013938-008 Roofing Flashing Adhesive				Not Analyzed
004-RFVS-A / 24013938-009 Roof Vent Sealant	White Non-Fibrous Homogeneous		100% Other	None Detected
004-RFVS-B / 24013938-010 Roof Vent Sealant	White Non-Fibrous Homogeneous		100% Other	None Detected
005-PP-A / 24013938-011 Pitch Pocket	Black Non-Fibrous Homogeneous	5% Cellulose	95% Other	< 1% Chrysotile

Analyst: J. Mayes
Analysis Date: 3/15/2024

Approved Signatory: Johnathan Wilson
Date: 3/15/2024

SanAir Technologies Laboratory

SanAir ID Number
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3/15/2024 4:38:54 PM

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Received Date: 3/8/2024 10:20:00 AM

Analyst: Mayes, Jean

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
006-WLPS-A / 24013938-012 Wall Penetration Sealant (Layered)	Black Non-Fibrous Heterogeneous		96% Other	4% Chrysotile
006-WLPS-B / 24013938-013 Wall Penetration Sealant (Layered)				Not Analyzed
007-HVAC-A / 24013938-014 Roof Mounted HVAC System Duct Sealant (Layered)	Various Non-Fibrous Heterogeneous		100% Other	None Detected
007-HVAC-B / 24013938-015 Roof Mounted HVAC System Duct Sealant (Layered)	Various Non-Fibrous Heterogeneous		100% Other	None Detected
008-CEMB-A / 24013938-016 Cementitious Fascia Board	Grey Non-Fibrous Heterogeneous		85% Other	15% Chrysotile
009-CHFLSH-A / 24013938-017 Chimney Flashing	Black Non-Fibrous Homogeneous		100% Other	None Detected
010-VS-A / 24013938-018 Vent Sealant	Black Non-Fibrous Homogeneous		90% Other	10% Chrysotile
011-VCLK-A / 24013938-019 Vent Caulk	White Non-Fibrous Heterogeneous	4% Other	96% Other	None Detected
011-VCLK-B / 24013938-020 Vent Caulk	White Non-Fibrous Heterogeneous	4% Other	96% Other	None Detected
012-RFFLSH-A / 24013938-021 Roof Flashing (Layered)/Entrance Canopy, Roofing	Black Non-Fibrous Heterogeneous	25% Cellulose	75% Other	None Detected

Analyst: J. Mayes
Analysis Date: 3/15/2024

Approved Signatory: Johnathan Wilson
Date: 3/15/2024

SanAir ID Number
24013938
FINAL REPORT
3/15/2024 4:38:54 PM

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Address: 2524 Langhorne Road
Lynchburg, VA 24501
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P.O. Number: 20240359
Project Name: Otter River Elementary
Collected Date: 3/7/2024
Received Date: 3/8/2024 10:20:00 AM

Analyst: Mayes, Jean

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
012-RFFLSH-A / 24013938-021 Roof Flashing (Layered)/Entrance Canopy, Flashing	Black Non-Fibrous Homogeneous		85% Other	15% Chrysotile
013-RFCORE-A / 24013938-022 Roof Core (Layered)/Entrance, Tar	Black Non-Fibrous Homogeneous		100% Other	None Detected
013-RFCORE-A / 24013938-022 Roof Core (Layered)/Entrance, Roofing	Black Non-Fibrous Heterogeneous	20% Cellulose	80% Other	None Detected
013-RFCORE-A / 24013938-022 Roof Core (Layered)/Entrance, Roofing	Black Non-Fibrous Heterogeneous		100% Other	None Detected

Analyst: Jean Mayes
Analysis Date: 3/15/2024

Approved Signatory: Johnathan Wilson
Date: 3/15/2024

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. This report and any information contained within shall not be edited, altered, or modified in any way by any persons or agencies receiving, viewing, distributing, or otherwise possessing a copy of this final report. The laboratory reserves the right to perform amendments to any finalized report, of which shall supersede and make obsolete any previous editions. Such changes, modifications, additions, or deletions shall be effective immediately upon notice thereof, which may be given by means including but not limited to posting on the SanAir client portal website, electronic or conventional mail, or by any other means. 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 on the COC. 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 nor shall not be used by the client to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies and may not be accredited 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 Accreditations
National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075, LA-0084
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PCM00126, PLM00126, TEM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, Certificate #05088

SanAir Technologies Laboratory

10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897 .1177 /888.895 .1177
Fax 804. 897.0070
sanair.com

Asbestos Chain of Custody
Form 1 40, Rev 1/4/2022

SanAir ID Number 24013938

Company: Hurt & Proffitt, Inc.	Project #: 20240359	Collected by: B.TRENT / T.WOOD	
Address: 2524 Langhorne Road	Project Name: OTTER RIVER ELEMENTARY	Phone #: 434.847796	
City, St., Zip: Lynchburg, Virginia 24501	Date Collected: 03/01/2024	Fax #:	
State of Collection: VA Account#: 2099	P.O. Number: 20240359	Email: btrent@handp.com twood@handp.com	

Bulk

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

** Available on24-hr. to5-day TAT

Water

ABHE	EPA 100.2	☐

Air

ABA	PCM NIOSH7400	☐
ABA-2	OSHA w/ TWA*	☐
ABTEM	TEM AHERA	☐
ABATN	TEM NIOSH 7402	☐
ABT2	TEM Level II	☐
Other:		☐

New York ELAP

ABEPA2	NY ELAP 198.1	☐
ABENY	NY ELAP 198.6 PLM NOB	☐
ABBNY	NY ELAP 198.4 TEM NOB	☐

Soil

ABSE	PLM EPA 600/R-93/116 (Qual.)	☐

Vermiculite & Soil

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 ☐	1 Day ☐
	☐ 2 Days	☐ 3 Days	☐ 4 Days	X 5 Days

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start Time*	Stop Time*
001-RFCORE-AB	BALLAST ROOFING SYSTEM ROOF CORE,					
C(X) (BJT)	INSULATION (LAYERED)					
002-RFCORE-AB	ROOF CORE (LAYERED)					
003-RFFLSH-ABC	BLACK ROOFING FLASHING ADHESIVE					
004-RFVS-AB	WHITE ROOF VENT SEALANT					
005-PP-A	PITCH POCKET					
006-WLPS-AB	WALL PENETRATION SEALANT (LAYERED)					
007-HVAC-AB	ROOF MOUNTED HVAC SYSTEM DUCT					
	SEALANT (LAYERED)					
008-CEMB-A	CEMENTITIOUS FASCIA BOARD					
009-CHFLSH-A	BLACK CHIMNEY FLASHING					
010-VS-A	BLACK VENT SEALANT					

Relinquished by	Date	Time	Received by	Date	Time
[signature]	03/07/2024	TO UPS	RM	3/8/24	10:20 am

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of $150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start – Stop Time*	
011-VCLK-AB	WHITE VENT CAULK					
012-RFFLSH-A	ROOF FLASHING (LAYERED) / ENTRANCE CANOPY					
013-RFCORE-A	ROOF CORE (LAYERED) / ENTRANCE CANOPY					

Special Instructions	

Relinquished by	Date	Time	Received by	Date	Time
	02/07/2024	TO UPS	IRM	3/5/24	0 2 0m

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of $150. A courier charge will be applied for sameday and one-day turnaround times for offsitwor k. SanAir covers Ground and Next Dair shipping. Shipments billed to SanAir with afaster shipping rate will result in additional charges. Page _of 22

Otter River Elementary School
1044 Otter River Drive; Goode, Virginia 24556
Hurt & Proffitt Project: 20240359

Suspect Asbestos-Containing Material
Sample Collection Locations