#### WORK SCOPE DOCUMENTS

#### **FOR**

## CITY OF SOUTH LYON ASBESTOS REMOVAL PROJECT

**JANUARY 13, 2020** 

HRC JOB NO. 20190971



555 Hulet Drive • P.O. Box 824 Bloomfield Hills, Michigan 48303-0824

# ADVERTISEMENT FOR BIDS MCHATTIE PARK HOUSE AND PARKS & REC BUILDING ASBESTOS REMOVAL PROJECT CITY OF SOUTH LYON

Sealed proposals for the Asbestos Removal Project will be received by the South Lyon City Clerk at South Lyon City Hall, located at 335 S. Warren Street, South Lyon, MI 48178, until **2:00 p.m.**, Local Time on **Tuesday**, **February 4, 2020**.

Bidders shall review and comply with the Instructions to Bidders, which are incorporated by reference, and carefully review all Contract Documents, as defined in the Instructions to Bidders. Bids submitted after the exact time specified for, receipt will not be considered.

The Contracts will consist of the following principal items of work and appurtenances as specified herein and shown on the attached Contract Documents.

#### Description of Work

Removal of hazardous materials delineated in the attached scope documents at the following two sites:

- 1. McHattie Park House 461 Washington Street, South Lyon, MI
- 2. Former Parks & Recreation Building 318 West Lake Street, South Lyon, MI

#### Work Scope to include:

- 1. Removal of floor slab as required to remove duct insulation at 318 West Lake Street. Removal is to be done in such a way as to not impair the structural integrity of the building as well as to not adversely impact future demolition operations at the building.
- 2. Temporarily boarding up any open holes with securely fastened 3/4"thick exterior grade painted plywood at any openings created by abatement activities (doors, windows, etc.) at 318 West Lake Street. Fasteners to be stainless steel and tamper-proof.

Proposals submitted by Bidders who have been debarred, suspended, or made ineligible by any Federal Agency will be rejected.

Each bidder agrees to waive any claim it has or may have against the Owner, the Architect/Engineer, and their respective employees, arising out of or in connection with the administration, evaluation, or recommendation of any bid.

The successful bidder will be required to furnish satisfactory Performance Bond.

A mandatory pre-bid meeting and walkthrough will be held on **Friday, January 24, 2020 at 9:00am** at the Former Parks & Rec Bldg. at 318 West Lake Street, South Lyon, MI. Meeting attendees will also be able to visit the McHattie Park House as part of the meeting.

Bidders are to submit any questions via email to Adrianna Melchior at Hubbell, Roth & Clark, Inc. at <a href="mailto:amelchior@hrcengr.com">amelchior@hrcengr.com</a> by 5:00pm on Wednesday, January 29, 2020. Responses to all questions will be issued to bidders no later than 2:00pm on Friday, January 31, 2020.

#### CITY OF SOUTH LYON

Published on January 13, 2020.

#### SECTION 00120

#### INSTRUCTIONS TO BIDDERS

#### SCOPE OF WORK

The work under this Contract shall consist of the furnishing of all labor, material, equipment, services, and all incidental items necessary to complete the project in accordance with the Contract Documents.

Refer to attached Limited Asbestos NESHAP Survey Reports provided by BDS Environmental for 318 West Lake Street and 461 Washington, in South Lyon, MI for required removals of Asbestos Containing Materials at both properties.

#### **OBSERVATION OF SITE**

Before submitting a Proposal, each bidder shall personally inspect the site of the proposed work to arrive at a clear understanding of the conditions under which the work is to be done.

He shall be held to have compared the premises with the Drawings and Specifications and to have satisfied himself as to the conditions of the premises, existing constructions, and any other conditions affecting the carrying out of the work, before delivery of his Proposal.

No allowance or extra consideration on behalf of the Bidder will subsequently be allowed by reason of error or oversight on the part of the Bidder or on account of interferences by the Owner's or by other Bidder's activities.

#### **ADVERTISEMENT**

The published Advertisement for the proposed work contains information necessary to bidders. A copy of the Advertisement shall be considered a part of the Instructions to Bidders as fully as if repeated herein.

#### **PROPOSALS**

Proposals will be received in accordance with the Advertisement for Bids, and shall be submitted only on forms provided by the Engineer.

Proposals shall be enclosed in sealed envelopes marked with the name of the project and bidder and shall be delivered to the designated location on or before the bid time as specified in the Advertisement for Bids.

Proposals shall be made in full conformity with all the conditions set forth in the drawings and in these specifications. Bids are firm and cannot be withdrawn for a period of 60 days after opening of the bids, unless otherwise specified in the Advertisement for Bids.

#### NAME AND STATUS OF BIDDER

The name and legal status of the bidder, either as a corporation, partnership, or individual, shall be stated in the Proposal.

Anyone signing a Proposal as an agent of another or others, must submit with the Proposal, legal evidence of his authority to do so.

The place of residence of each bidder, or the office address and telephone number in the case of a firm or company, with County and State, must be given after his signature.

#### **BIDDER'S QUALIFICATIONS**

It is the intention of the Owner to award this Contract to a Bidder fully capable, both financially and with regard to experience to perform and complete the work in a satisfactory manner. Each bidder under consideration is required to furnish the Owner the following information sworn to under oath by him:

- 1. Performance record.
- 2. The address and description of the bidder's plant and place of business.
- 3. Itemized list of demolition equipment available for use on the project.
- 4. Such additional information as will satisfy the Owner that the bidder is adequately prepared, in technical experience and otherwise, to fulfill the Contract.
- 5. Be a fully licensed contractor in MIOSHA's Asbestos Program
- 6. Have trained and qualified personnel performing the abatement work, accredited through MIOSHA's asbestos removal training program.
- 7. Have a minimum of 5 years' documented experience in providing asbestos and other hazardous material removal for similar projects in the State of Michigan.
- 8. Maintain Insurance limits no less than: Asbestos Related General Liability \$1 million (occurrence based).
- 9. Provide a post-abatement air monitoring check upon completion of the asbestos removal. This air monitoring check must be performed by an independent qualified testing agency and documentation of results must be provided to the Owner.
- 10. References and contact information for (3) three similar projects completed in the last 10 years.

#### **EXPLANATION TO BIDDERS BY ADDENDUMS**

Neither the Owner nor the Engineer will give verbal answers to inquiries, regarding the meaning of the Drawings or Specifications, or give verbal instructions, previous to the award of the Contract. Any verbal statements regarding same by any persons, previous to the award, shall be unauthoritative.

Explanations desired by bidders shall be requested of the Engineer in writing and, if explanations are necessary, a reply will be made in the form of an addendum, a copy of which will be forwarded to each bidder whose work is affected.

Addendums issued to bidders prior to date of receipt of proposals shall become a part of the Specifications, and all proposals shall include the work described in the addendums.

No inquiry received within 4 days of the date fixed for the opening of bids will be given consideration.

Failure of the Engineer to send, or of the bidder to receive, any such interpretations shall not relieve the bidder from obligation under his bid as submitted.

RIGHT TO ACCEPT, TO REJECT, AND TO WAIVE DEFECTS

The Owner reserves the right to accept any Proposal, to reject any or all Proposals, and to waive any defects or irregularity in the Proposal if it appears advantageous to the Owner to do so.

Each bidder agrees to waive any claim it has or may have against the Owner, the Architect/Engineer, and their respective employees, arising out of or in connection with the administration, evaluation, or recommendation of any bid.

#### TIME OF COMPLETION

The Owner and the individual citizens of the municipality affected by this project are vitally concerned with the prompt completion of the construction together with the cleanup and restoration of roads and lawns within the time allowed in the Proposal.

The Bidder shall use sufficient labor and equipment to complete and place in service all of the work being constructed within this Contract within the time specified in the Proposal. The surface cleanup shall follow closely behind construction with earth spoil removed from lawns and roads and any trenches neatly finished by the end of each work day. Failure of the Bidder to comply with this type of workmanlike job will result in the suspension of construction operations until the cleanup is effected.

If the Bidder shall be unavoidably delayed in beginning or fulfilling this Contract by reason of excessive storms or floods, or by Acts of Providence, or by strikes, or by court injunction, or by stopping of the work by the Owner because of any emergency or public necessity, or by reason of alterations ordered by the Owner, the Bidder shall have no valid claim for damages on account of any cause or delay; but he shall in such case be entitled to such an extension of the above time limit herein, as the Engineer shall adjudge to be just and reasonable; provided, however, that formal claim for such extension shall be made in writing by the Bidder within a week after the date upon which such alleged cause or delay shall have occurred.

#### FAIR EMPLOYMENT PRACTICES

Section 4 of the Fair Employment Practices Act PA 1955, No. 251, provides:

Section 4. Every Contract to which the State or any of its political or civil subdivisions is a party shall contain a provision requiring the Bidder and his subcontractors not to discriminate against any employee or applicant for employment, to be employed in the performance of said contract, with respect to his hire, tenure, terms, conditions, or privileges of employment, or any matter directly or indirectly related to employment, because of his race, color, religion, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the Contract.

#### Section 4A of the Act provides:

Section 4A. Every contract which the State or any of its political or civil subdivisions is a party shall contain a provision requiring the Bidder and his subcontractors not to discriminate against any employee or applicant for employment to be employed in the performance of such contract with respect to his hire, tenure, terms, conditions or privileges of employment or any matter directly or indirectly related to employment because of his age or sex, except where based on a bona fide occupational qualification.

#### **END OF SECTION**

#### PROPOSAL FOR ASBESTOS REMOVAL CITY OF SOUTH LYON

City of South Lyon 335 S. Warren Street South Lyon, MI Bids Due: Tuesday, February 4, 2020 On or Before 2:00 pm, Local Time HRC Job No. 20190971

| To Prospective Bidd | ers:       |      |  |
|---------------------|------------|------|--|
| Name of Bidder:     |            |      |  |
| Address:            |            |      |  |
| Date:               | Telephone: | Fax: |  |

The above, as Bidder, hereby declares this bid is made in good faith without fraud or collusion with any persons bidding, and that the Drawings, Specifications, and all other information referenced in the Instructions to Bidders have been examined. Further, the Bidder is familiar with the location of the work described herein and is fully informed as to the nature of the work and the conditions relating to the performance of the Contract.

The Bidder acknowledges that no representations or warranties of any nature whatsoever have been received, or are relied upon from the City of South Lyon, its agents or employees, as to any conditions to be encountered in accomplishing the work and that the bid is based solely upon the Bidder's own independent judgment.

The above, as Bidder, hereby certifies that the Drawings, Specifications, and other data provided by the Owner for bidding purposes have been examined. Further, the undersigned certifies that the proposed construction methods have been reviewed and found acceptable for the conditions which can be anticipated from the information provided for bidding.

The Bidder hereby affirms that the site of work has been inspected and further declares that no charges in addition to the Individual Unit Prices shall be made on account of any job circumstances or field conditions which were present and/or ascertainable prior to the bidding. In addition, The Contractor, as such and as Bidder, shall make the determination as to existing soil conditions and shall also complete the work under whatever conditions created by the Contractor/Bidder's sequence of construction, construction methods, or other conditions the Contractor/Bidder may create, at no additional cost to the Owner.

The above, as Bidder, confirms knowledge of the location of the proposed Asbestos Removal Project and appurtenant construction in the City of South Lyon, Michigan, and the conditions under which it must be performed; and also declares to have carefully examined the Drawings, Specifications, and Contract Documents which the Bidder understands and accepts as sufficient for the purpose of providing services for said Project, and appurtenant work, and agrees to contract with the City of South Lyon to furnish all labor, materials, tools, equipment, facilities and supervision necessary to do all the work specified and prescribed, in strict accordance with the Owner's General Conditions, and with the full intent of the Drawings and Specifications, and will accept in full payment therefore the sum of:

#### **BASE BID**

|          | <u>Item</u>   | Quantity |        | <b>Unit Price</b>                            |       | Total Cost |
|----------|---|----------|--------|--|-------|------------|
| 2.<br>3. | Hazardous Material Removal – McHattie Park Hou<br>Hazardous Material Removal – Parks & Rec Bldg<br>Removal of Floor Slab at Parks & Rec Bldg<br>Covering of Wall Openings at Parks & Rec Bldg | 1 1 1 1  | @<br>@ | Lump Sum<br>Lump Sum<br>Lump Sum<br>Lump Sum | = = = | \$         |
| To       | tal Amount of Bid   |          |        |  |       | \$         |

The Owner, at its sole discretion, reserves the right to award to the Bidder who, in the sole determination of the Owner, will best serve the interest of the Owner. The Owner reserves the right to accept any bid, to reject any or all bids, to waive any and all informalities involving price, time, or changes in the work, and to negotiate contract terms with the successful Bidder, and the right to disregard all nonconforming, nonresponsive, unbalanced or conditional bids. However, it is the intention of the Owner to award to the low total bid to one bidder. Also, the Owner reserves the right to reject the bid of any Bidder if the Owner believes that it would not be in the best interest of the Project to make an award to that Bidder, whether because the bid is not responsive or the Bidder is unqualified, of doubtful financial ability, or fails to meet any other pertinent standard or criteria established by the Owner.

Each bidder agrees to waive any claim it has or may have against the Owner, the Architect/Engineer, and their respective employees, arising out of or in connection with the administration, evaluation, or recommendation of any bid.

#### **TAXES**

The Bidder affirms that all applicable Federal, State and Local taxes of whatever character and description are included in all prices stated in this Form of Proposal.

#### **ADDENDA**

The Bidder acknowledges the following Addenda, covering revisions to the drawings or specifications and the cost, if any, of such revision has been included in the quoted proposal:

| Addendum No  | Dated |
|--------------|-------|
| Addendum No. | Dated |
| Addendum No. | Dated |
| Addendum No. | Dated |

#### **FEES**

The Bidder shall refer to the General Conditions for allowable Fees for additional work performed, upon Owner's written authorization, by Bidder's own forces and/or for additional work, upon Owner's written authorization, by Bidder's subcontractors.

#### **TIME OF COMPLETION**

If awarded the Contract for the Asbestos Removal Project, we agree to have all work substantially completed by May 31, 2020.

#### **BIDS TO REMAIN FIRM**

The price stated in this Proposal shall be guaranteed for a period of not less than (60) days from the bid due date and if authorized to proceed within that period, the bidder agrees to complete the work covered by the Proposal at said price.

If this Proposal is accepted by the Owner and the undersigned shall fail to contract as aforesaid and to furnish the required surety bonds within fifteen (15) days after being notified of the acceptance of their bid, then the undersigned shall be considered to have abandoned the contract.

| Company Name:  |          |
|----------------|----------|
| Signature:     | Title:   |
| Address:       |          |
| County:        | State:   |
| Telephone No.: | Fax No.: |
| Email Address: |          |

#### LEGAL STATUS OF BIDDER

| This Bid is su               | bmittal in the name of:                                    |   |                        |
|------------------------------|--|---|------------------------|
| (Print)                      |  |   |                        |
| The undersign be served or n | ned hereby designates below the business add<br>nailed:    | dress to which all notices, directions or other | ner communications may |
| Street                       |  |   |                        |
| City                         |  |   |                        |
| State                        |  | Zip Code  |                        |
| The undersign                | ned hereby declares the legal status checked be INDIVIDUAL | elow:   |                        |
| ()                           | INDIVIDUAL DOING BUSINESS UNI                              | DER AN ASSUMED NAME                             |                        |
| ()                           | CO-PARTNERSHIP The Assumed Name of the Co-Partnership      | ip is registered in the County of               | , Michigan             |
| ()                           | CORPORATION INCORPORATED U                                 | NDER THE LAWS OF THE STATE OF                   |                        |
|                              |  | The Corporation is                              |                        |
| ()                           | LICENSED TO DO BUSINESS IN MIC                             | CHIGAN  |                        |
| ()                           | NOT NOW LICENSED TO DO BUSIN                               | ESS IN MICHIGAN                                 |                        |
| The name, titl               | les, and home addresses of all persons who are             | officers or partners in the organization are    | e as follows:          |
| A corporation                | duly organized and doing business under the                | laws of the State of                            |                        |
| NAME AND                     | TITLE  | HOME ADDRESS                                    |                        |
|                              |  |   |                        |
|                              |  |   |                        |
| Signed and So                | ealed this   | day of  | <u>,</u> 20            |
|                              |  | By (Signature)                                  |                        |
|                              |  | Printed Name of Signer                          |                        |
|                              |  | Title   |                        |

## END OF SECTION

#### CONTRACT

| ARTICLES OF AGREEMENT, Ma   | ade and entered into this  |
|---|--|
| day of  |  |
|   | ( A Michigan Municipal Corporation),   |
|   | Owner, and   |
| in the  | , County of  |
| and State of Michigan, Party of the   | second part, hereinafter called the Contractor, to wit:  |
| Item 1) That all proposals, specifications, pare made a part of this agreement and contra     | plans, bonds, etc., hereto attached or herein referred to, shall be and act.   |
| Item 2) That the Contractor, under penalty necessary, and do all the work as set forth in     | of bond attached, shall furnish all labor, materials, and appliances the proposal.   |
| HRC Job No. 20190971  |  |
| according to the specifications, plans, etc., v place, all and singular, as herein set forth. | which have been made a part of this contract in a manner, time, and  |
| IN CONSIDERATION WHEREOR agrees to pay to said Party of the Second Pa                         | F, said Party of the First Part, for it and its successors, promises and art, the sum of:  |
|   |  |
| as provided in the attached proposal, all in t  | he time and manner indicated in the specifications.  |
|   | ll and singular of the stipulations, terms and conditions of this themselves, their successors, heirs, executors, administrators and |

| IN WITNESS WHEREOF, Said Parties have si written. | igned this Contract, in duplicate, on the date first above |
|---|--|
| WITNESS:  | (A Michigan Municipal Corporation) Party of the First Part |
| WITNESS:  | (A Michigan Corporation)                                   |
|   | Party of the Second Part  By:                              |

#### PERFORMANCE BOND

| KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned  |     |
|---|-----|
|   |     |
|   |     |
| as Princip  | .01 |
| •   | aı, |
| nd  |     |
|   |     |
| fas Sureti  | es, |
| re hereby held and firmly bound unto the  |     |
|   |     |
|   |     |
|   |     |
|   |     |
|   |     |
| the full and just sum of Dollar   | ars |
| for the payment of which well and truly to be made, we hereby jointly and severa                          | lly |
| ind ourselves, our heirs, executors, administrators, successors and assigns.                              | ·   |
|   |     |
| igned and sealed this day of 20   |     |
| he condition of the above obligation is such that if said   |     |
|   |     |
|   |     |
| nall well and faithfully do and perform the things agreed by  |     |
| be done and performed by the annexed contract, according to the terms thereof, then this obligation shall | be  |
| oid: otherwise, the same shall remain in full force and effect  |     |

| It is mutually understood and agreed that in cases whe or Owner, or by mutual agreement, such changes or ch |                          |         |
|---|--------------------------|---------|
|   | (A Michigan Corporation) |         |
|   | (Se                      | al)     |
|   | (Se                      | al)     |
|   | (Se                      | <br>al) |
|   | (Se                      | al)     |
| Signed, Sealed and Delivered in the Presence of:  |                          |         |
|   |                          |         |



13845 East Nine Mile Warren, Michigan 48089

Tel: (586) 755-9030 Fax: (586) 755-9068

# LIMITED ASBESTOS NESHAP SURVEY REPORT

#### **BUILDING LOCATION**

Former Parks and Recreation Building 318 West Lake Street South Lyon, Michigan 48178

#### INSPECTION DATE

August 27, 2019

#### CLIENT

City of South Lyon 335 South Warren South Lyon, Michigan 48178

**BDS PROJECT NUMBER** 

19-711



#### INTRODUCTION

The city of South Lyon has retained BDS Environmental to conduct an asbestos inspection on a located at 318 West Lake Street, South Lyon, Oakland County, Michigan. The objective of the survey was to confirm the presence or absence of non-friable and friable asbestos-containing materials present in the building. BDS's scope of work was based on the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) as they relate to asbestos-containing materials present in building structures that are to be renovated or demolished. This inspection is "limited" in scope because it was not practical to penetrate all floors, walls and ceiling surfaces in order to identify potential ACM. However, reasonable efforts were made to try to identify all currently inaccessible ACM within the building.

This is a 1,950 square foot commercial structure built on a slab with a single floor. This structure is heated with forced air heating and has an original build date circa 1950.

#### **METHODOLOGY**

BDS's Asbestos Inspector Kevin T. Vayko (MLARA Accreditation No. A52844) performed the inspection on August 27, 2019. BDS's Inspector collected thirty-three (33) bulk samples during the inspection. The inspection was performed in a manner to attempt to identify all suspect asbestos materials, i.e. "Hammer in Hand". However, potential suspect materials within or above hard plaster or cinder block walls, partitions, and ceilings may not have been identified due to the lack of access to those potential suspect materials.

BDS's inspector began by identifying building materials, which possibly contain asbestos. These materials can be floor tiles, mastic, wallboard, ceiling tiles, thermal system insulation, et cetera. Once these were located, homogeneous sampling areas were delineated and the suspect materials were sampled and analyzed from representative areas.

A homogeneous area is a material that is similar in color, texture, construction, or general appearance. Bulk samples of suspected asbestos-containing building materials were collected using the recommended procedures outlined in the EPA guidance publication Simplified Sampling Scheme for Friable Surfacing Materials (EPA 560/5-85-030a-Oct. 1985). The methods described in the publication were adapted to include the sampling of thermal system insulations. Samples were collected utilizing plastic containers which were sealed air tight and labeled with a unique sample number. Chain of custody forms were then completed and priority mailed along with the samples to the laboratory for analysis.

Collected bulk samples were analyzed by SanAir Technologies Laboratory, Inc. using Polarized Light Microscopy (PLM) technique according to EPA Method 600/R-93/116. This method requires that each heterogeneous layer of a bulk sample be analyzed for the presence of asbestos. Analysis of floor tiles and other resin bound materials by PLM may yield false negative results because of method limitations in separating closely bound fibers and in detecting fibers of short length and smaller diameter. When analysis of such materials by PLM yields negative results for the presence of asbestos, BDS may recommend utilizing confirmatory methods of identification, i.e. point counting.

#### SAMPLE COLLECTION AND IDENTIFICATION

A total thirty-three (33) bulk samples of suspected asbestos-containing materials were collected from selected locations identified throughout the site. The bulk samples were further delineated into forty-eight (48) distinct layers which were all analyzed for asbestos content. Drywall joint compound and white aluminum window frame caulk samples were further analyzed using the "Point Count Method" to confirm accuracy of the initial testing results. This additional analysis confirmed that these homogeneous areas are asbestos-containing materials. The approximate sample location, material type, and asbestos content for each sample are listed on the following page.

# **BULK SAMPLE DATA**

|        | BULK SAMIPLE  |                            |   |
|--------|---|----------------------------|---|
| SAMPLE | HOMOGENEOUS   | SAMPLE                     | ASBESTOS                                  |
| NUMBER | AREA  | LOCATION                   | CONTENT                                   |
| 01A    | White Aluminum Frame Caulk                            | South - Front<br>Entry     | 2% Chrysotile<br>(PC 1.25%<br>Chrysotile) |
| 01B    | White Aluminum Frame Caulk                            | South - Front<br>Entry     | DNA                                       |
| 01C    | White Aluminum Frame Caulk                            | South - Front<br>Entry     | DNA                                       |
| 02A    | Black Aluminum Frame Caulk                            | Southwest                  | NAD                                       |
| 02B    | Black Aluminum Frame Caulk                            | North                      | NAD                                       |
| 02C    | Black Aluminum Frame Caulk                            | East                       | NAD                                       |
| 03A    | White Brick Ledge Caulk                               | Southwest - Front<br>Entry | NAD                                       |
| 03B    | White Brick Ledge Caulk                               | Southeast - Front<br>Entry | NAD                                       |
| 04A    | Black Foundation Caulk                                | Southwest -<br>Front Entry | 10% Chrysotile                            |
| 04B    | Black Foundation Caulk                                | Southeast -<br>Front Entry | DNA                                       |
| 05A    | Metal Door Frame Caulk                                | East                       | 5% Chrysotile                             |
| 05B    | Metal Door Frame Caulk                                | East                       | DNA                                       |
| 06A    | Transite Duct   | South -<br>Reception Area  | 40% Chrysotile                            |
| 06B    | Transite Duct   | North -<br>Stock/Play Area | DNA                                       |
| 07A    | 2' x 2' Suspended Ceiling Grid -<br>Pinhole-Gouge     | East - Reception<br>Area   | NAD                                       |
| 07B    | 2' x 2' Suspended Ceiling Grid -<br>Pinhole-Gouge     | West -<br>Conference Room  | NAD                                       |
| 08A    | 12" x 12" Pinhole Ceiling Tile<br>with Brown Glue Pod | South - Reception<br>Area  | NAD/NAD                                   |
| 08B    | 12" x 12" Pinhole Ceiling Tile<br>with Brown Glue Pod | North -<br>Stock/Play Area | NAD/NAD                                   |
| 08C    | 12" x 12" Pinhole Ceiling Tile<br>with Brown Glue Pod | West -<br>Conference Room  | NAD/NAD                                   |
| 09A    | 12" x 12" Rainbow Pattern Floor<br>Tile/Yellow Glue   | South - Reception<br>Area  | NAD/NAD                                   |
| 09B    | 12" x 12" Rainbow Pattern Floor<br>Tile/Yellow Glue   | North -<br>Stock/Play Area | NAD/NAD                                   |

NAD = No Asbestos Detected DNA = Did Not Analyze PC = Point Count

#### **BULK SAMPLE DATA**

(Continued)

| SAMPLE<br>NUMBER | HOMOGENEOUS<br>AREA                              | SAMPLE<br>LOCATION           | ASBESTOS<br>CONTENT                     |
|------------------|--|------------------------------|---|
| 10A              | 9" x 9" Light Brown Floor<br>Tile/Black Mastic   | East -<br>Mechanical<br>Room | 5% Chrysotile/<br>NAD                   |
| 10B              | 9" x 9" Light Brown Floor<br>Tile/Black Mastic   | East -<br>Mechanical<br>Room | <b>DNA</b> /NAD                         |
| 11A              | Brown Vinyl Base Cove/<br>Brown Adhesive         | East - Mechanical<br>Room    | NAD/NAD                                 |
| 11B              | Brown Vinyl Base Cove/<br>Brown Adhesive         | North -<br>Stock/Play Area   | NAD/NAD                                 |
| 12A              | Navy Blue Vinyl Base Cove/<br>Brown Adhesive     | South - Reception<br>Area    | NAD/NAD                                 |
| 12B              | Navy Blue Vinyl Base Cove/<br>Brown Adhesive     | North -<br>Stock/Play Area   | NAD/NAD                                 |
| 13A              | Drywall/Drywall Joint Compound                   | South - Reception<br>Area    | NAD/NAD                                 |
| 13B              | Drywall/Drywall Joint Compound                   | North -<br>Stock/Play Area   | NAD/NAD                                 |
| 13C              | Drywall/ <b>Drywall Joint</b><br><b>Compound</b> | East -<br>Mechanical<br>Room | NAD/2% Chrysotile (PC 1.25% Chrysotile) |
| 14               | Drywall Joint Compound - Patch                   | East - Mechanical<br>Room    | NAD                                     |
| 15A              | Black Sink Undercoating                          | North -<br>Stock/Play Area   | 5% Chrysotile                           |
| 15B              | Black Sink Undercoating                          | North -<br>Stock/Play Area   | DNA                                     |

NAD = No Asbestos Detected

DNA = Did Not Analyze

PC = Point Count

#### INTERPRETATION OF SURVEY RESULTS

The Environmental Protection Agency defines an asbestos-containing material (ACM) as any material containing more than one percent asbestos as determined using Polarized Light Microscopy. Asbestos materials are further defined as Friable ACM, Category I Nonfriable ACM, and Category II Nonfriable ACM.

All friable ACM must be removed prior to building renovation/demolition and any Category I or II nonfriable ACM must be removed prior to building renovation/demolition if these materials have a high probability of becoming friable during the renovation/demolition process.

The visual inspection of the interior and exterior of the building indicated that sixteen (16) building materials, known as homogeneous areas, were determined to be Presumed Asbestos Containing Materials (PACM), of which fifteen (15) were therefore were sampled to determine definitively whether the materials were asbestos or non-asbestos. The fire door and frame doors were assumed to be asbestos-containing. The subsequent sample analysis, as listed in the previous **Bulk Sample Data** tables, indicated that eight (8) of those building materials were proven to be non-asbestos and seven (7) were proven to be asbestos-containing.

The materials listed in bold print on the following table are asbestos-containing building materials (ACBM).

#### HOMOGENEOUS AREA DATA

| Homogeneous<br>Area Number | Homogeneous Area Description                          | Asbestos-Containing? |
|----------------------------|---|----------------------|
| HA #1                      | White Aluminum Frame Caulk                            | YES                  |
| HA #2                      | Black Aluminum Frame Caulk                            | NO                   |
| HA #3                      | White Brick Ledge Caulk                               | NO                   |
| HA #4                      | Black Foundation Caulk                                | YES                  |
| HA #5                      | Metal Door Frame Caulk                                | YES                  |
| HA #6                      | Transite Duct Under Floor Slab                        | YES                  |
| HA #7                      | 2' x 2' Suspended Ceiling Grid –<br>Pinhole-Gouge     | NO                   |
| HA #8                      | 12" x 12" Pinhole Ceiling Tile with Brown<br>Glue Pod | NO/NO                |
| HA #9                      | 12" x 12" Rainbow Pattern Floor Tile/<br>Yellow Glue  | NO/NO                |
| HA #10                     | 9" x 9" Light Brown Floor Tile/<br>Black Mastic       | YES/NO               |
| HA #11                     | Brown Vinyl Base Cove/Brown Adhesive                  | NO/NO                |

# HOMOGENEOUS AREA DATA

(Continued)

| Homogeneous<br>Area Number | Homogeneous Area Description             | Asbestos-Containing? |
|----------------------------|--|----------------------|
| HA #12                     | Navy Blue Vinyl Base Cove/Brown Adhesive | NO/NO                |
| HA #13                     | Drywall/Drywall Joint Compound           | NO/ <b>YES</b>       |
| HA #14                     | Drywall Joint Compound - Patch           | NO                   |
| HA #15                     | Black Sink Undercoating                  | YES                  |

# CONCLUSION

The locations, type of asbestos materials and approximate quantities present in the building is listed in the table below.

| LOCATION  | TYPE OF<br>MATERIAL               | QUANTITY                              | REQUIRED ASBESTOS<br>RESPONSE ACTION  |
|---|-----------------------------------|---------------------------------------|---|
| South – Front Entry                               | White Aluminum<br>Frame Caulk     | 2 SF<br>(28 LF)                       | Category II Non-friable ACM door frame caulk requires removal if renovation/demolition activities will disturb the caulk.               |
| South – Front<br>Entry                            | Black Foundation<br>Caulk         | 1 SF<br>(18 LF)                       | Category II Non-friable ACM door frame caulk requires removal if renovation/demolition activities will disturb the caulk.               |
| East Man Door                                     | Metal Door Frame<br>Caulk         | 3 SF<br>(21 LF]<br>[1 Double<br>Door] | Category II Non-friable ACM door frame caulk requires removal if renovation/demolition activities will disturb the caulk.               |
| Interior perimeter<br>underneath<br>concrete slab | Transite Duct                     | 505 SF                                | Category II Non-friable ACM<br>Transite duct requires removal after<br>concrete floor slab has been removed.                            |
| East – Mechanical<br>Room                         | 9" x 9" Light<br>Brown Floor Tile | 36 SF                                 | Category I Non-friable ACM floor tile requires removal if rendered non-intact during renovation/demolition activities.                  |
| East – Mechanical<br>Room                         | Drywall Joint<br>Compound         | 350 SF                                | Friable ACM drywall joint compound must be removed if renovation/ demolition activities will disturb the drywall.                       |
| North - Stock/Play<br>Area                        | Black Sink<br>Undercoating        | 1 Sink                                | Category II Non-friable ACM black sink undercoating must be removed if demolition activities will disturb the undercoating on the sink. |
| North - Stock/Play<br>Area                        | Fire Door & Frame                 | 2 Doors;<br>1 Frame                   | Category II Non-friable ACM fire door & frame requires removal if renovation/demolition activities will puncture the fire door & frame. |

 $\overline{SF} = Square Feet$ 

All asbestos-containing response activities must be conducted in accordance to the requirements of the OSHA Class II Asbestos work requirements found in 29 CFR 1926.1101 prior to renovation or demolition activities.

Intact means that the ACM has not crumbled, been pulverized, or otherwise deteriorated so that it is no longer likely to be bound with its matrix. Each contractor will have to make the decision on whether they feel that they can renovate/demolish the building while maintaining the asbestos-containing materials in good condition (intact). It is the opinion of BDS Environmental that the liability of the building owner and renovation/demolition contractor is much lower if the asbestos-containing materials, excluding bituminous roofing, are removed prior to renovation/demolition activities.

The information and opinions rendered in this report are exclusively for use by the city of South Lyon and it's agents. BDS will not distribute this report without your consent except as required by law or court order. The information and opinions are given in light of a limited assignment and should be implemented in light of that assignment. BDS accepts responsibility for the competent performance of its duties in execution of the assignment and preparing reports in accordance with the normal standards of the profession, but disclaims any responsibility for consequential damages.

It has been a pleasure to be of service to you. If you have any questions, or require additional information, please contact us at (586) 755-9030.

Thank You,

**BDS ENVIRONMENTAL** 

Kevin T. Vayko

MI Asbestos Inspector A#52844

Kenneth J. Lawler General Manager

# CERTIFICATE OF LABORATORY ANALYSIS

# SanAir Technologies Laboratory

**Analysis Report** prepared for **BDS Environmental** 

Report Date: 8/29/2019 Project Name: 318 West Lake, South

Lyon

Project #: 19-711B SanAir ID#: 19043572



NVLAP LAB CODE 200870-0







804.897.1177

www.sanair.com



# SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139 804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070 Web: http://www.sanair.com E-mail: iaq@sanair.com

BDS Environmental 13845 E. Nine Mile Road Warren, MI 48089

August 29, 2019

SanAir ID#

19043572

Project Name:

318 West Lake, South Lyon

Project Number:

19-711B

Dear Ron Lawler,

We at SanAir would like to thank you for the work you recently submitted. The 33 sample(s) were received on Wednesday, August 28, 2019 via FedEx. The final report(s) is enclosed for the following sample(s): 01A, 01B, 01C, 02A, 02B, 02C, 03A, 03B, 04A, 04B, 05A, 05B, 06A, 06B, 07A, 07B, 08A, 08B, 08C, 09A, 09B, 10A, 10B, 11A, 11B, 12A, 12B, 13A, 13B, 13C, 14, 15A, 15B.

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

andra Sobiino

SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter

- Analysis Pages

- Disclaimers and Additional Information

sample conditions:

33 sample(s) in Good condition



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

# Asbestos Chain of Custody

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|----|-----|----|------|
| L  | U ( |    |      |

SanAir ID Number

|                                      |   | •                                   |
|--------------------------------------|---|-------------------------------------|
| Company: BDS Environmental           | Project #: 19-711B                      | Collected by: Kevin Vayko           |
| Address: 13845 East Nine Mile Rd.    | Project Name: 318 West Lake, South Lyon | Phone #: 586-755 <b>-</b> 9030      |
| City, St., Zip: Warren, MI 48089     | Date Collected: 08/27/2019              | Fax#: 586-755-9068                  |
| State of Collection: MI Account 2451 | D.O. Mumbar                             | Email: rlawler@BDSenvironmental.com |

|       | Bulk           |             |      |        | Air                 |       |        | Soil/Ve    | ermiculite          |          |
|-------|----------------|-------------|------|--------|---------------------|-------|--------|------------|---------------------|----------|
| ABB   | PLM EPA 600/R- | 93/116      | V V  | ABA    | PCM NIOSH 7400      |       | ABSE   | PLM EPA 6  | 00/R-93/116 (Qual.) |          |
|       | Positive Stop  | V           |      | ABA-2  | OSHA w/ TWA*        | ]     | ABSP   | PLM CARB   | 435 (LOD <1%)       |          |
| ABEPA | PLM EPA 400 Po | oint Count  |      | ABTEM  | TEM AHERA           |       | ABSP1  | PLM CARB   | 435 (LOD 0.25%)     |          |
| ABB1K | PLM EPA 1000 F | Point Count |      | ABATN  | TEM NIOSH 7402      |       | ABSP2  | PLM CARB   | 435 (LOD 0.1%)      |          |
| ABBEN | PLM EPA NOB    |             |      | ABT2   | TEM Level II        |       |        |            |                     |          |
| ABBCH | TEM Chatfield  |             |      |        |                     |       |        | Dus        | st                  |          |
| ABBTM | TEM EPA NOB    |             |      |        | New York ELAP       |       | ABWA   | TEM Wipe A | ASTM D-6480         |          |
|       |                |             |      | PLM NY | PLM 600/M4 82 C     | 20 [  | ABDMV  | TEM Microv | ac ASTM D-5755      |          |
|       | Water          |             |      | ABEPA2 | NY ELAP 198.1       |       |        |            |                     | <u> </u> |
| ABHE  | EPA 100.2      |             |      | ABENY  | NY ELAP 198.6 PLM N | IOB [ | Matrix | Oth        | er                  |          |
|       |                |             |      | ABBNY  | NY ELAP 198.4 TEM N | 10B   |        |            |                     |          |
|       |                |             |      |        |                     |       |        |            |                     |          |
| Tu    | rn Around      | 3 HR (4 HI  | R TE | M) 🗆   | 6 HR (8HR TEM)      | ם כ   | 12 HR  |            | 24 HR 🚇             |          |
|       | Times          | 2 Da        | ays  |        | 3 Days □            |       | 4 Days |            | 5 Days □            |          |

| Sample # | Sample Identification/Location | Volume<br>or Area | Sample<br>Type | Flow<br>Rate* | Time*<br>Start – Sto |
|----------|--------------------------------|-------------------|----------------|---------------|----------------------|
|          | See Sheet                      |                   | Туре           | Nate          | Otant Oto            |
| <u>,</u> |                                |                   |                |               |                      |
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|          |                                |                   |                |               |                      |

| Relinquished by | Date       | Time  | Received by | Date | Time |
|-----------------|------------|-------|-------------|------|------|
| En //al         | 08/27/2019 | 18:30 |             |      |      |
|                 |            |       |             |      |      |

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 3 of 16

| SAMPLE<br>NUMBER | HOMOGENEOUS AREA                                   | SAMPLE LOCATION         |  |  |  |  |
|------------------|--|-------------------------|--|--|--|--|
| 01A              | White Aluminum Frame Caulk                         | South - Front Entry     |  |  |  |  |
| 01B              | White Aluminum Frame Caulk                         | South - Front Entry     |  |  |  |  |
| 01C              | White Aluminum Frame Caulk                         | South - Front Entry     |  |  |  |  |
| 02A              | Black Aluminum Frame Caulk                         | Southwest               |  |  |  |  |
| 02B              | Black Aluminum Frame Caulk                         | North                   |  |  |  |  |
| 02C              | Black Aluminum Frame Caulk                         | East                    |  |  |  |  |
| 03A              | White Brick Ledge Caulk                            | Southwest - Front Entry |  |  |  |  |
| 03B              | White Brick Ledge Caulk                            | Southeast - Front Entry |  |  |  |  |
| 04A              | Black Foundation Caulk                             | Southwest - Front Entry |  |  |  |  |
| 04B              | Black Foundation Caulk                             | Southeast - Front Entry |  |  |  |  |
| 05A              | Metal Door Frame Caulk                             | East                    |  |  |  |  |
| 05B              | Metal Door Frame Caulk                             | East                    |  |  |  |  |
| 06A              | Transite Duct                                      | South - Reception Area  |  |  |  |  |
| 06B              | Transite Duct                                      | North - Stock/Play Area |  |  |  |  |
| 07A              | 2' x 2' Suspended Ceiling Grid - Pinhole-Gouge     | East - Reception Area   |  |  |  |  |
| 07B              | 2' x 2' Suspended Ceiling Grid - Pinhole-Gouge     | West - Conference Room  |  |  |  |  |
| 08A              | 12" x 12" Pinhole Ceiling Tile with Brown Glue Pod | South - Reception Area  |  |  |  |  |
| 08B              | 12" x 12" Pinhole Ceiling Tile with Brown Glue Pod | North - Stock/Play Area |  |  |  |  |
| 08C              | 12" x 12" Pinhole Ceiling Tile with Brown Glue Pod | West - Conference Room  |  |  |  |  |
| 09A              | 12" x 12" Rainbow Pattern Floor Tile               | South - Reception Area  |  |  |  |  |
| 09B              | 12" x 12" Rainbow Pattern Floor Tile               | North - Stock/Play Area |  |  |  |  |
| 10A              | 9" x 9" Light Brown Floor Tile                     | East - Mechanical Room  |  |  |  |  |
| 10B              | 9" x 9" Light Brown Floor Tile                     | East - Mechanical Room  |  |  |  |  |
| 11A              | Brown Vinyl Base Cove                              | East - Mechanical Room  |  |  |  |  |
| 11B              | Brown Vinyl Base Cove                              | North - Stock/Play Area |  |  |  |  |
| 12A              | Navy Blue Vinyl Base Cove                          | South - Reception Area  |  |  |  |  |
| 12B              | Navy Blue Vinyl Base Cove                          | North - Stock/Play Area |  |  |  |  |
| 13A              | Drywall Joint Compound                             | South - Reception Area  |  |  |  |  |
| 13B              | Drywall Joint Compound                             | North - Stock/Play Area |  |  |  |  |
| 13C              | Drywall Joint Compound                             | East - Mechanical Room  |  |  |  |  |
| 14               | Drywall Joint Compound - Patch                     | East - Mechanical Room  |  |  |  |  |
| 15A              | Black Sink Undercoating                            | North - Stock/Play Area |  |  |  |  |
| 15B              | Black Sink Undercoating                            | North - Stock/Play Area |  |  |  |  |

Relinquished by Levi Vy Date 08/27/299 Time (8:30 Received by Date Time

13509 East Boundary Road, Suite B, Midlothian, VA 23112 • 804-739-1751 • fax: 804-739-1753

#### ASBESTOS 400 POINT COUNT ANALYSIS SUMMARY

CLIENT:

SanAir Technologies Laboratory, Inc.

TESC LOGIN #:

190829Y

1551 Oakbridge Dr. Suite B

DATE OF RECEIPT:

08/28/2019

Powhatan, VA 23139

DATE OF ANALYSIS:

08/29/2019

DATE OF REPORT:

08/29/2019

CLIENT JOB #:

19043572

JOBSITE:

19-711B

ANALYST:

M. Steiniger

REPORTING LIMIT 0.25% Asbestos

| TESC<br>SAMPLE# | CLIENT<br>SAMPLE #   | GROSS DESCRIPTION | % ASBESTOS       |
|-----------------|----------------------|-------------------|------------------|
| 1               | 01A                  | White chalky      | 1.25% Chrysotile |
| 2               | 13C - Joint compound | White chalky      | 1.25% Chrysotile |

Total Sample(s) Analyzed: 2

Reviewed By Authorized Signatory:

Feng Jiang, MS Senior Geologist, Laboratory Director Yuedong Fang, Senior Geologist

Samples are analyzed in accordance with "interim Method for the Determination of Asbestos in Bulk Insulation Samples," EPA/600/R-93-116, July 1993 (EPA-600/M4-82-020, Dec 1982), or the current US EPA method for the analysis of asbestos in building material. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested. NVLAP Lab Code: 200794-0 [LEGEND NAD = No Asbestos Detected]

| Prepared by TESC   | ikelessen w  |  |   |                       |  |                     |                | 1,500          |   |        |                |              | See Attached   | Sample number                    |               | TAT: 2 Hour: 6 Hour:<br>CONTACT METHOD: Phone: | ADDRESS: 1551 Oakbridge Dri                                | CHAIN OF CUSTODY FORM  I AB CUSTOMER: SanAir Teo |   | TESCLOGIN NUMBER:                     |
|--|--------------|--|---|-----------------------|--|---------------------|----------------|----------------|---|--------|----------------|--------------|----------------|----------------------------------|---------------|--|--|--|---|---------------------------------------|
| in se  |              |  |   |                       |  |                     | (              |                |   |        |                |              | 19             |                                  |               | 6 Hour:<br>D: Phone:                           | 1551 Oakbridge Drive, Suite B<br>Powhatan, Virginia, 23139 | DY FORM<br>SanAir Tech                           |   | BER:                                  |
|  |              |  |   |                       | <u>.</u>   |                     |                | _              | $\parallel$                             | -      | -              |              |                | Bulk ID by PLM PCM Fiber Count   |               | <b>24 Hou</b><br>804-897-1177                  | dge D<br>lirginia  | nologi   |   | ,,,,                                  |
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| <b>23</b>  | 13           | ļ.,  |   |                       | <del></del>  |                     |                | <del>  -</del> | -#                                      | +      |                | +            | +              | Toxic Metal Profile              | 1 g           |  |  |  | an •  |                                       |
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| , J  | $\  M \ $    |  |   | 44                    | <b></b>  | . 1 24 . 45         |                |                |   | +      | $\dashv$       | +            | ┿              | Biocassette                      | †≥            | '  | 1 1  | •  | •   | 1                                     |
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|  | 55           |  |   |                       |  |                     |                |                |   |        |                |              |                | r C                              |               | (B)  |  | on   | :   | 20                                    |
| 導  |              | - Constitution   |   |                       |  |                     |                |                |   |        |                |              |                | Comments                         |               | sana   |  |  |   | 4                                     |
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|                          | () 628 T                                    | (Q) 829 V                             | /        |           | ermiculite       |               |
|--------------------------|---|---------------------------------------|----------|-----------|------------------|---------------|
| ABB 1 P M F A 600/9-93/1 | 16 🔃 ABA                                    | PCM NIOSH 7400                        | ABSE     | PLM EPA 6 | 00/R-93/116 (Cit | ıal.)         |
| Positive Stop [          | ABA-2                                       | OSHA W/ TWA*                          | ABSP     | PLM CARB  | 435 (LOD <1%)    | 同             |
| ABERN P.M.ERA 400 Point  | With a commence of the second               | TEM AHERA                             | ABSP1    | PLM CARB  | 435 (LOD 0.25%   | ,)   <u> </u> |
| ABBIR PLM EPA 1000 Point | Isinal                                      | TEM NIOSH 7402                        | ABSP2    | PLM CARB  | 435 (LOD 0 1%)   | 一情            |
| ABBEST PLNIEPA NOS       | ABT2  | TEM Level II                          | 片        |           |                  |               |
| ABBCH TEM Chaffield      |   | TEM COTOT II                          |          | Du        | st               |               |
|                          |   | New York ELAP                         | ABWA     |           | ASTM D-6480      |               |
| ABB WILLIAM EPA NOB      | PLMNY                                       | PLM 600/M4 82 020                     | [ ABDMV  |           | rac ASTM D-575   | <u>- H</u>    |
|                          | ABEPA2                                      |                                       |          | TENTINO   |                  |               |
| Mater                    |   | NY ELAP 198.6 PLM NOB                 | Matrix   | Oth       | er               |               |
| Allie FPA DUZ            | ABENY                                       |                                       |          | 7         |                  | 7             |
|                          | ABBNY                                       | NY ELAP 198.4 TEM NOB                 |          |           |                  |               |
| in Anglik                |   | à lin souri riste.                    | 12 HR    |           | 24 HR            | 6             |
|                          | 3 HR (4 HR TEM)                             | 6 HR (8HR TEM)                        |          |           | 5 Days           |               |
|                          | 2 Days E                                    | 3 Days □                              | 4 Day    | <u> </u>  | 5 Days           |               |
| Special instructions     |   |                                       |          |           |                  |               |
|                          | 200 4 1 1 1 4 2 1 1 2 1 2 2 2 2 2 2 2 2 2 2 |                                       | Volume   | Sample    | Flow Tim         | <u>.</u>      |
| Sample #                 | Sample Identific                            | ation/Location                        | or Area  |           | Rate Start -     |               |
|                          | See S                                       | theet                                 | ,        |           |                  |               |
|                          | 366 0                                       | , , , , , , , , , , , , , , , , , , , |          |           |                  |               |
|                          |   |                                       | <u> </u> |           |                  |               |
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|                          | Control Management                          |                                       |          |           | :                |               |
|                          |   |                                       |          |           |                  |               |
|                          |   |                                       |          |           |                  |               |
|                          |   | Jung Aug 29                           |          |           |                  |               |
|                          |   |                                       |          |           | Pag              | e 7 of 16     |

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|             | ilo i (deleneo is area   | SAMPLE LOCATION         |
|-------------|--|-------------------------|
|             | White Aluminum Frame Caulk   |                         |
| 1011        | White Aluminum Frame Caulk   | South - Front Entry     |
|             | White Aluminum Frame Caulk   | South - Front Entry     |
|             | Black Aluminum Frame Caulk   | South - Front Entry     |
|             | Black Aluminum Frame Caulk   | Southwest               |
|             | A TOTAL CONTRACTOR OF THE PROPERTY OF THE PROP | North                   |
| 014         | Black Aluminum Frame Caulk   | East                    |
| 138         | White Brick Ledge Caulk  | Southwest - Front Entry |
|             | White Brick Ledge Caulk  | Southeast - Front Entry |
| 44          | Black Foundation Caulk   | Southwest - Front Entry |
|             | Flack Foundation Caulk   | Southeast - Front Entry |
|             | Metal Door Frame Caulk   | East                    |
|             | Metal Door Frame Caulk   | East                    |
| 16          | Transite Duct  | South - Reception Area  |
| 16          | Transite Duct  | North - Stock/Play Area |
| 7.          | 2 × 2 Suspended Ceiling Grid - Pinhole-Gouge   | East - Reception Area   |
| 7           | 2 N. Suspended Ceiling Grid - Pinhole-Gouge  | West - Conference Room  |
| 6  <br>  8  | Land Police Ceiling Tile with Brown Glue Pod   | South - Reception Area  |
| 1/8/1       | 12" X 12" Pinhole Ceiling Tile with Brown Glue Pod   | North - Stock/Play Area |
| (8)         | 12" x 12" Pinhale Ceiling Tile with Brown Glue Pod   | West - Conference Room  |
| 631         |  | South - Reception Area  |
| <u>il i</u> | 2" k 1?" Rainbow Pattern Floor Tile  | North - Stock/Play Area |
| 1//         | 9" x 2" Light Brown Floor Tile   | East - Mechanical Room  |
| Ν           | 9" x " Light Brown Floor Tile  | East - Mechanical Room  |
| 114         | Bown Vinyl Base Cove   | East - Mechanical Room  |
| 113         | Brown Vinyl Base Cove  | North - Stock/Play Area |
| 174         | Navy Blue Vinyl Base Cove  | South - Reception Area  |
|             | Navy Blue Vinyl Base Cove  | North - Stock/Play Area |
| LS/A        | Drywall Joint Compound   | South - Reception Area  |
| i ili       | Drywall Joint Compound   | North - Stock/Play Area |
| 136         | Drywall Joint Compound   | East - Mechanical Room  |
| - il        | Drywall Joint Compound - Patch   | East - Mechanical Room  |
| LiA         | Black Sink Undergoating  | North - Stock/Play Area |
|             | Black Sink Undergoaling  | North - Stock/Play Area |

Thomas June

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AUG 29 2019

13509 East Boundary Road, Suite B, Midlothian, VA 23112 804-739-1751 • fax: 804-739-1753

#### BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.

1551 Oakbridge Dr, Suite B Powhatan, VA 23139 TESC LOGIN #: 190828T

DATE OF RECEIPT: 08/28/2019 DATE OF ANALYSIS: 08/29/2019

DATE OF REPORT: 08/29/2019

CLIENT JOB/#: 19043572

JOB SITE: 19-711B

ANALYST: M. Steiniger

| TESC<br>SAMPLE# | CLIENT SAMPLE ID<br>& GROSS DESCRIPTION | ESTIMATED<br>% ASBESTOS | NON ASBESTOS<br>% FIBERS | NON FIBROUS<br>% MATERIALS |
|-----------------|---|-------------------------|--------------------------|----------------------------|
| 1               | 01A / White chalky                      | 2% Chrysotile           |                          | 98%                        |
| 2               | 01B /                                   | Positive Stop           |                          | 100%                       |
| 3               | 01C/                                    | Positive Stop           |                          | 100%                       |
| 4               | 02A / Black vinyl                       | NAD                     |                          | 100%                       |
| 5               | 02B / Black vinyl                       | NAD                     |                          | 100%                       |
| 6               | 02C / Black vinyl                       | NAD                     |                          | 100%                       |
| 7               | 03A / White chalky                      | NAD                     |                          | 100%                       |
| 8               | 03B / White chalky                      | NAD                     |                          | 100%                       |
| 9               | 04A / Black tar-like                    | 10% Chrysotile          |                          | 90%                        |
| 10              | 04B /                                   | Positive Stop           |                          | 100%                       |
| 11              | 05A / Gray vinyl                        | 5% Chrysotile           |                          | 95%                        |

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (EPA-600/M4-82-020, Dec 1982), or the current US EPA method for the analysis of asbestos in building material. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested.

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:

13509 East Boundary Road, Suite B, Midlothian, VA 23112 804-739-1751 • fax: 804-739-1753

#### BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.

1551 Oakbridge Dr, Suite B Powhatan, VA 23139 TESC LOGIN #: 190828T

DATE OF RECEIPT: 08/28/2019 DATE OF ANALYSIS: 08/29/2019

DATE OF REPORT: 08/29/2019

CLIENT JOB/#: 19043572

JOB SITE: 19-711B

ANALYST: M. Steiniger

| TESC<br>SAMPLE# | CLIENT SAMPLE ID<br>& GROSS DESCRIPTION | ESTIMATED<br>% ASBESTOS | NON ASBESTOS<br>% FIBERS        | NON FIBROUS<br>% MATERIALS |
|-----------------|---|-------------------------|---------------------------------|----------------------------|
| 12              | 05B /                                   | Positive Stop           |                                 | 100%                       |
| 13              | 06A / Gray cement                       | 40% Chrysotile          |                                 | 60%                        |
| 14              | 06B /                                   | Positive Stop           |                                 | 100%                       |
| 15              | 07A / Tan fibers                        | NAD                     | 40% Cellulose<br>40% Fiberglass | 20%                        |
| 16              | 07B / Tan fibers                        | NAD                     | 40% Cellulose<br>40% Fiberglass | 20%                        |
| 17A             | 08A - Ceiling tile / Brown fibers       | NAD                     | 95% Cellulose                   | 5%                         |
| 17B             | 08A - Mastic / Brown adhesive           | NAD                     | 3% Cellulose                    | 97%                        |
| 18A             | 08B - Ceiling tile / Brown fibers       | NAD                     | 95% Cellulose                   | 5%                         |
| 18B             | 08B - Mastic / Brown adhesive           | NAD                     | 3% Cellulose                    | 97%                        |
|                 |   |                         |                                 |                            |

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CLIENT: SanAir Technologies Laboratory, Inc.

1551 Oakbridge Dr, Suite B

Powhatan, VA 23139

CLIENT JOB/#: 19043572

JOB SITE: 19-711B

TESC LOGIN #: 190828T

DATE OF RECEIPT: 08/28/2019

DATE OF ANALYSIS: 08/29/2019 DATE OF REPORT: 08/29/2019

ANALYST: M. Steiniger

| TESC<br>SAMPLE# | CLIENT SAMPLE ID<br>& GROSS DESCRIPTION | ESTIMATED<br>% ASBESTOS | NON ASBESTOS<br>% FIBERS | NON FIBROUS<br>% MATERIALS |
|-----------------|---|-------------------------|--------------------------|----------------------------|
| 19A             | 08C - Ceiling tile / Brown fibers       | NAD                     | 95% Cellulose            | 5%                         |
| 19B             | 08C - Mastic / Brown adhesive           | NAD                     | 3% Cellulose             | 97%                        |
| 20A             | 09A - Tile / Tan vinyl                  | NAD                     |                          | 100%                       |
| 20B             | 09A - Mastic / Yellow/black adhesive    | NAD                     |                          | 100%                       |
| 21A             | 09B - Tile / Tan vinyl                  | NAD                     |                          | 100%                       |
| 21B             | 09B - Mastic / Yellow/black adhesive    | NAD                     |                          | 100%                       |
| 22A             | 10A - Tile / Beige tile                 | 5% Chrysotile           |                          | 95%                        |
| 22B             | 10A - Mastic / Black adhesive           | NAD                     |                          | 100%                       |
| 23A             | 10B - Tile /                            | Positive Stop           |                          | 100%                       |
| 23B             | 10B - Mastic / Black adhesive           | NAD                     |                          | 100%                       |
|                 |   |                         |                          |                            |

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CLIENT JOB/#: 19043572

JOB SITE: 19-711B

TESC LOGIN #: 190828T

DATE OF RECEIPT: 08/28/2019

DATE OF ANALYSIS: 08/29/2019 DATE OF REPORT: 08/29/2019

ANALYST: M. Steiniger

| TESC<br>SAMPLE# | CLIENT SAMPLE ID<br>& GROSS DESCRIPTION  | ESTIMATED<br>% ASBESTOS | NON ASBESTOS<br>% FIBERS | NON FIBROUS<br>% MATERIALS |
|-----------------|--|-------------------------|--------------------------|----------------------------|
| 24A             | 11A - Basecove / Brown vinyl             | NAD                     |                          | 100%                       |
| 24B             | 11A - Mastic / Yellow/brown adhesive     | NAD                     |                          | 100%                       |
| 25A             | 11B - Basecove / Brown vinyl             | NAD                     |                          | 100%                       |
| 25B             | 11B - Mastic / Yellow/brown adhesive     | NAD                     |                          | 100%                       |
| 26A             | 12A - Basecove / Blue vinyl              | NAD                     |                          | 100%                       |
| 26B             | 12A - Mastic / Yellow/brown adhesive     | NAD                     |                          | 100%                       |
| 27A             | 12B - Basecove / Blue vinyl              | NAD                     |                          | 100%                       |
| 27B             | 12B - Mastic / Yellow/brown adhesive     | NAD                     |                          | 100%                       |
| 28A             | 13A - Drywall / White chalky, tan fibers | NAD                     | 10% Cellulose            | 90%                        |
| 28B             | 13A - Joint compound / White chalky      | NAD                     |                          | 100%                       |
|                 |  |                         |                          |                            |

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (EPA-600/M4-82-020, Dec 1982), or the current US EPA method for the analysis of asbestos in building material. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested.

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:

13509 East Boundary Road, Suite B, Midlothian, VA 23112 804-739-1751 • fax: 804-739-1753

#### BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.

1551 Oakbridge Dr, Suite B Powhatan, VA 23139 TESC LOGIN #: 190828T

DATE OF RECEIPT: 08/28/2019 DATE OF ANALYSIS: 08/29/2019

DATE OF REPORT: 08/29/2019

CLIENT JOB/#: 19043572

JOB SITE: 19-711B

ANALYST: M. Steiniger

| TESC<br>SAMPLE# | CLIENT SAMPLE ID<br>& GROSS DESCRIPTION   | ESTIMATED<br>% ASBESTOS | NON ASBESTOS<br>% FIBERS | NON FIBROUS<br>% MATERIALS |
|-----------------|---|-------------------------|--------------------------|----------------------------|
| 29A             | 13B - Drywall / White chalky, tan fibers  | NAD                     | 10% Cellulose            | 90%                        |
| 29B             | 13B - Joint compound / White chalky       | NAD                     |                          | 100%                       |
| 30A             | 13C - Drywall / White chalky, tan fibers  | NAD                     | 20% Cellulose            | 80%                        |
| 30B             | 13C - Joint compound / White chalky       | 2% Chrysotile           |                          | 98%                        |
| 31A             | 14A - Drywwall / White chalky, tan fibers | NAD                     | 20% Cellulose            | 80%                        |
| 31B             | 14A - Joint compound / White chalky       | NAD                     |                          | 100%                       |
| 32              | 15A / Black tar-like                      | 5% Chrysotile           |                          | 95%                        |
| 33              | 15B /                                     | Positive Stop           |                          | 100%                       |

Total Samples/Layers Analyzed: 41

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (EPA-600/M4-82-020, Dec 1982), or the current US EPA method for the analysis of asbestos in building material. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested.

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:

ADDRESS: 1551 Canunay ....
CITY, STATE, ZIP: Powhatan, Virginia, 23139
6 Hour: 24 Hour: ADDRESS: SanAir Technologies Laboratory

ADDRESS: 1551 Oakbridge Drive, Suite B Received by Released by CONTACT METHOD: Phone: CHAIN OF CUSTODY FORM TESC LOGIN NUMBER: See Prepared by TESC Attached Sample number 8/27/19 Sample Date → Bulk ID by PLM 804-897-1177 PCM Fiber Count PLM Point Count 400 Asbestos PLM Point Count 1000 13509 East Boundary Road, Suite B • Midlothian • VA • 23112 • Tel: 804-739-1751 • Fax: 804-739-1753 PLM Gravimetric CARB 435 (Soil only) TEM AHERA Air TEM Bulk Chatfield 48 Hour: Signature Signature Air Paint(% & PPM) Soil(PPM) Lead Wipe 3 Day: TCLP (Pb) Waster Water Drinking Water (Pb) TCLP RCRA 8 5 Day: Other Metals CAM 17 Welding Fume Toxic Metal Profile Biocassette Air Quality/Mold CONTACT NAME: PROJECT SITE: PROJECT #: DATE:08/28/2019 Slide Surface Tape Surface Swab iaq@sanair.com ssobrino@sanair.com Bulk Date/Time: Air Volume (L) Date/Time Wipe Area (ft²) 19-711B Sandra Sobrino 19043572 Scrape Area (cm²) Point Count 3% or Less Pages: Comments 9

**Print Form** 

|  |  |  | 000            | -ኅ (          | > -       | _    |                                       |               |         |             |                |                                   |                       |   |     |
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| Control of the contro | Bulk   |  | 100            | 4             | $\rangle$ |      | Air                                   |               |         |             | •              | :10.4 -                           |                       |   |     |
| ABB  | FLM EPA 60   | )(;/ <b>R</b> -9   | 3/116          | V             | ABA       | 1    | PCM NIOSH 7400                        | -             | П       | ABSE        | PLM E          | i <mark>l/Verm</mark><br>PA 600/I | iculite<br>R-93/116 ( | Qual 1                                  | ı i |
|  | Positive S   | aois   | v '            | <del>  </del> | ABA       | -2   | OSHA w/ TWA*                          | -             | 片       | ABSP        | ,              |                                   | (LOD <1%              |   | 4   |
| ABEPA  | FLM EFA 40   | O Poir   |                |               | ABT       | EM   | TEM AHERA                             |               | H       | ABSP        | 4              |                                   | (LOD 0.2              | -                                       | Ľ   |
| 4BB1 <b>K</b>  | PUM EPA 10   | 00 Po  | int Count      |               | ABA       | TN   | TEM NIOSH 7402                        |               | 片       | ABSP2       | L_             |                                   | (LOD 0.19             |   | 1   |
| BBEN   | PLM EPA NO   | 38   |                | 爿             | ABT       | 2    | TEM Level II                          |               | 片       | Abol 2      | - FLIVI CA     |                                   | (LOD 0.14             | /o)<br>                                 | Ц   |
| BBOIL  | TEM Chatrie  | ď  |                | 쒸             |           |      |                                       |               |         |             |                | Dust                              |                       |   |     |
| BBTN   | TEM EPA NO   | 8  |                | =             |           |      | New York ELAP                         |               |         | ABWA        | TEMW           |                                   | M D-6480              | -                                       | Т   |
|  |  |  | J 4            | للسجد         | PLM       | NY   | PLM 600/M4 82                         | 020           |         | ABDMV       |                |                                   | STM D-57              | /55                                     | H   |
|  | Water  | The state of the s |                | ,             | ABEF      | A2   | NY ELAP 198.1                         | <del> </del>  | H       |             |                |                                   |                       |   | Ц   |
| 48HE   | EPA 100.2  |  | I              | 7             | ABEN      | ΙΥ   | NY ELAP 198.6 PLN                     | 1 NOB         | 님       | Matrix      |                | Other                             |                       |   |     |
|  | 1  |  | 1 1            | <del></del>   | ABBI      | IY   | NY ELAP 198.4 TEN                     | 1             | 1 1 1 3 |             | 1              |                                   |                       | <del>- 1</del>                          | Г   |
| 4.   |  |  |                |               |           |      |                                       |               | لللا    | <u> </u>    | <u> </u>       | -                                 |                       |   | L   |
| ] U  | m Around m   |  | 3 HR (4 HF     | RTE           | M) 🗆      |      | 6 HR (8HR TEM)                        |               |         | 12 HI       | ₹ 🛘            |                                   | 24 HR                 | A                                       |     |
|  | Times  |  | 2 Da           | ys [          |           |      | 3 Days □                              |               |         | 4 Day       | s 🗆            |                                   | 5 Days                |   |     |
| oeciai   | Instructions   | 1  |                |               |           | •    |                                       |               |         |             |                |                                   |                       | *************************************** |     |
|  |  |  |                |               |           |      |                                       |               |         |             |                |                                   |                       |   | =   |
| Sar  | nple#  |  | Sam            | ple l         | denti     | fica | tion/Location                         |               |         | ume<br>Area | Sample<br>Type | Flow<br>Rate                      |                       |   | _   |
|  |  | ľ  |                |               | See       | Sh   | eet                                   |               |         |             | Type           | Nate                              | Start -               | · Stop                                  | þ   |
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|  |  |  |                |               |           |      |                                       |               |         |             | ******         |                                   |                       |   |     |
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| Щ.   |  |  |                |               |           |      |                                       |               |         |             |                |                                   |                       |   |     |
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|  |  |  |                |               |           |      |                                       |               |         |             |                |                                   | 1                     |   |     |
|  | 111  |  |                |               |           |      |                                       | -             |         |             |                |                                   |                       |   | _   |
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|  |  |  | Periping dikin |               | //        |      |                                       | اسر مجار الله |         |             |                |                                   |                       |   |     |
|  |  |  | :              |               | Mon       | .10/ | 1 / hene                              |               |         | _           | 2,2            | •                                 |                       |   |     |
|  |  |  |                |               |           |      | / Ming                                |               | AUG 2   | 8 2019      | 2:30           | )D/h                              | -<br>-<br>-           |   |     |
|  |  |  |                | /'            |           | W    |                                       |               |         |             |                | J. '                              |                       |   |     |
|  |  |  |                | /             |           |      |                                       |               |         |             |                | •                                 |                       |   |     |
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|  |  |  |                | *             |           |      |                                       |               |         |             |                |                                   |                       |   |     |
|  |  | ***************************************  |                |               |           |      |                                       |               |         |             |                |                                   |                       |   |     |

1908187

19043572

| 1 (64 25)                                      |  | SAMPLE                 |  |  |
|--|--|------------------------|--|--|
| SAMPLE LOCATION                                | HOMOGENEOUS AREA                                   | MADDER                 |  |  |
| <b>一种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种</b>   | White Aluminum Frame Caulk                         | 0[A] ]]                |  |  |
| South - Front Entry                            | White Aluminum Frame Caulk                         | 0 B                    |  |  |
| South - Front Entry                            | White Aluminum Frame Caulk                         | <u>9</u> [c]][]        |  |  |
| South - Front Entry                            | Black Aluminum Frame Caulk                         | 02A[]]]                |  |  |
| Southwest                                      | Black Aluminum Frame Caulk                         | 01B                    |  |  |
| North  | Black Aluminum Frame Caulk                         | 02C                    |  |  |
| East   | White Brick Ledge Caulk                            | 03A                    |  |  |
| Southwest - Front Entry                        | White Brick Ledge Caulk                            | 03B                    |  |  |
| Southeast - Front Entry                        | Black Foundation Caulk                             | 044                    |  |  |
| Southwest - Front Entry                        | Black Foundation Caulk                             | 048                    |  |  |
| Southeast - Front Entry                        | Metal Door Frame Caulk                             | 05A                    |  |  |
| East   | Metal Door Frame Caulk                             | 05 3                   |  |  |
| East   | Transite Duct                                      | 06/1                   |  |  |
| South - Reception Area                         | Transite Duct                                      | 0613                   |  |  |
| North - Stock/Play Area                        | 2 x 2' Suspended Ceiling Grid - Pinhole-Gouge      | 074                    |  |  |
| East - Reception Area                          | 2' x 2' Suspended Ceiling Grid - Pinhole-Gouge     | 17B                    |  |  |
| West - Conference Room                         | 2"x 10" Pinhole Ceiling Tital 22                   | 084.                   |  |  |
| South - Reception Area                         | 12" x 12" Pinhole Ceiling Tile with Brown Glue Pod | - B80                  |  |  |
| North - Stock/Play Area                        | 12" x 12" Pinhale Ceiling Tile with Brown Glue Pod | 080                    |  |  |
| West - Conference Room                         | 12" x 12" Pinhole Ceiling Tile with Brown Glue Pod | 09A                    |  |  |
| South - Reception Area                         | 12" x 12" Rainbow Pattern Floor Tile               | 098                    |  |  |
| North - Stock/Play Area                        | 12" x 12" Rainbow Pattern Floor Tile               | Ti5X+++-               |  |  |
| East - Mechanical Room                         | 9" x 9" Light Brown Floor Tile                     | 108                    |  |  |
| East - Mechanical Room                         | 9" x 9" Light Brown Floor Tile                     | TIA                    |  |  |
| East - Mechanical Room                         | Brown Vinyl Base Cove                              | Tiğ III                |  |  |
| North - Stock/Play Area                        | Brown Vinyl Base Cove                              | 15 <del>7       </del> |  |  |
| South - Reception Area                         | Navy Blue Vinyl Base Cove                          | 12B                    |  |  |
| North - Stock/Play Area                        | Navy Blue Vinyl Base Cove                          | TBA H                  |  |  |
| South - Reception Area                         | Drywall Joint Compound                             | 13B                    |  |  |
| North - Stock/Play Area                        | Drywall Joint Compound                             | 130 1                  |  |  |
| East - Mechanical Room                         | Drywall Joint Compound                             | 14                     |  |  |
| East - Mechanical Room  East - Mechanical Room | Drywall Joint Compound - Patch                     | 15A H                  |  |  |
| North - Stock/Play Area                        | Black Sink Undercoating                            | 15 <u>B</u>            |  |  |
| North - Stock/Play Area                        | Black Sink Undercoating                            |                        |  |  |

AUG 28 2019 7:30 pm



13845 East Nine Mile Warren, Michigan 48089

Tel: (586) 755-9030 Fax: (586) 755-9068

# LIMITED ASBESTOS NESHAP SURVEY REPORT

# **BUILDING LOCATION**

# McHattie Park House

461 Washington South Lyon, Michigan 48178

# INSPECTION DATE

August 27, 2019

# CLIENT

City of South Lyon 335 South Warren South Lyon, Michigan 48178

**BDS PROJECT NUMBER** 

19-711



# INTRODUCTION

The city of South Lyon has retained BDS Environmental to conduct an asbestos inspection on the McHattie Park house located at 461 Washington Street, South Lyon, Oakland County, Michigan. The objective of the survey was to confirm the presence or absence of non-friable and friable asbestos-containing materials present in the building. BDS's scope of work was based on the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) as they relate to asbestos-containing materials present in building structures that are to be renovated or demolished. This inspection is "limited" in scope because it was not practical to penetrate all floors, walls and ceiling surfaces in order to identify potential ACM. However, reasonable efforts were made to try to identify all currently inaccessible ACM within the building.

This structure is a 625 square foot single-story residence with a crawlspace and attic. This structure is heated with forced air heating and has an original build date of circa 1940.

# METHODOLOGY

BDS's Asbestos Inspector Kevin T. Vayko (MLARA Accreditation No. A52844) performed the inspection on August 27, 2019. BDS's Inspector collected twenty-four (24) bulk samples during the inspection. The inspection was performed in a manner to attempt to identify all suspect asbestos materials, i.e. "Hammer in Hand". However, potential suspect materials within or above hard plaster or cinder block walls, partitions, and ceilings may not have been identified due to the lack of access to those potential suspect materials.

BDS's inspector began by identifying building materials, which possibly contain asbestos. These materials can be floor tiles, mastic, wallboard, ceiling tiles, thermal system insulation, et cetera. Once these were located, homogeneous sampling areas were delineated and the suspect materials were sampled and analyzed from representative areas.

A homogeneous area is a material that is similar in color, texture, construction, or general appearance. Bulk samples of suspected asbestos-containing building materials were collected using the recommended procedures outlined in the EPA guidance publication Simplified Sampling Scheme for Friable Surfacing Materials (EPA 560/5-85-030a-Oct. 1985). The methods described in the publication were adapted to include the sampling of thermal system insulations. Samples were collected utilizing plastic containers which were sealed air tight and labeled with a unique sample number. Chain of custody forms were then completed and priority mailed along with the samples to the laboratory for analysis.

Collected bulk samples were analyzed by SanAir Technologies Laboratory, Inc. using Polarized Light Microscopy (PLM) technique according to EPA Method 600/R-93/116. This method requires that each heterogeneous layer of a bulk sample be analyzed for the presence of asbestos. Analysis of floor tiles and other resin bound materials by PLM may yield false negative results because of method limitations in separating closely bound fibers and in detecting fibers of short length and smaller diameter. When analysis of such materials by PLM yields negative results for the presence of asbestos, BDS may recommend utilizing confirmatory methods of identification, i.e. point counting.

# SAMPLE COLLECTION AND IDENTIFICATION

A total twenty-four (24) bulk samples of suspected asbestos-containing materials were collected from selected locations identified throughout the site. The bulk samples were further delineated into thirty-two (32) distinct layers which were all analyzed for asbestos content. Drywall joint compound and window glazing samples were further analyzed using the "Point Count Method" to confirm accuracy of the initial testing results. This additional analysis confirmed that these homogeneous areas are asbestos-containing materials. The approximate sample location, material type, and asbestos content for each sample are listed on the following page.

# BULK SAMPLE DATA

| SAMPLE<br>NUMBER | HOMOGENEOUS<br>AREA                              | SAMPLE<br>LOCATION     | ASBESTOS<br>CONTENT                               |
|------------------|--|------------------------|---|
| 01A              | Exterior Trim Caulk                              | West                   | NAD   |
| 01B              | Exterior Trim Caulk                              | South                  | NAD   |
| 01C              | Exterior Trim Caulk                              | East                   | NAD   |
| 02A              | Brick Kote Flashing                              | West                   | NAD   |
| 02B              | Brick Kote Flashing                              | South                  | NAD   |
| 02C              | Brick Kote Flashing                              | East                   | NAD   |
| 03A              | Window Glazing                                   | West                   | 3% Chrysotile<br>(PC 2.75%<br>Chrysotile)         |
| 03B              | Window Glazing                                   | East                   | DNA   |
| 03C              | Window Glazing                                   | Garage - Southside     | DNA   |
| 04A              | Textured Ceiling                                 | Northwest Room         | NAD   |
| 04B              | Textured Ceiling                                 | Southwest Room         | NAD   |
| 04C              | Textured Ceiling                                 | East Room with Furnace | NAD   |
| 04D              | Textured Ceiling                                 | Bathroom               | NAD   |
| 05A              | <b>Drywall Joint Compound</b> /Drywall           | Northwest Room         | 2% Chrysotile<br>(PC 1.75%<br>Chrysotile)/<br>NAD |
| 05B              | <b>Drywall Joint Compound</b> /Drywall           | Southeast Room         | <b>DNA</b> /NAD                                   |
| 05C              | Drywall  | East Room with Furnace | NAD   |
| 06A              | 12" x 12" White Floor<br>Tile/Yellow Glue        | Kitchen                | NAD/NAD   |
| 06B              | 12" x 12" White Floor<br>Tile/Yellow Glue        | Kitchen                | NAD/NAD   |
| 07A              | Beige Linoleum/<br>Yellow Glue                   | East Room with Furnace | NAD/NAD   |
| 07B              | Beige Linoleum/<br>Yellow Glue                   | East Room with Furnace | NAD/NAD   |
| 08A              | 12" x 12" Grey Spotted Floor<br>Tile/Yellow Glue | Bathroom               | NAD/NAD   |
| 08B              | 12" x 12" Grey Spotted Floor<br>Tile/Yellow Glue | Bathroom               | NAD/NAD   |
| 09A              | Roofing  | House - Eastside       | NAD   |
| 09B              | Roofing  | Garage - Southside     | NAD   |

NAD = No Asbestos Detected

DNA = Did Not Analyze PC = Point Count

# INTERPRETATION OF SURVEY RESULTS

The Environmental Protection Agency defines an asbestos-containing material (ACM) as any material containing more than one percent asbestos as determined using Polarized Light Microscopy. Asbestos materials are further defined as Friable ACM, Category I Nonfriable ACM, and Category II Nonfriable ACM. All friable ACM must be removed prior to building renovation/demolition and any Category I or II nonfriable ACM must be removed prior to building renovation/demolition if these materials have a high probability of becoming friable during the renovation/demolition process.

The visual inspection of the interior and exterior of the building indicated that nine (9) building materials, known as homogeneous areas, were determined to be Presumed Asbestos Containing Materials (PACM) and therefore were sampled to determine definitively whether the materials were asbestos or non-asbestos. The subsequent sample analysis, as listed in the previous **Bulk Sample Data** tables, indicated that seven (7) of those building materials were proven to be non-asbestos and two (2) were proven to be asbestos-containing.

The materials listed in bold print on the following table are asbestos-containing building materials (ACBM).

# HOMOGENEOUS AREA DATA

| Homogeneous Area Description |   | Asbestos-Containing? |
|------------------------------|---|----------------------|
| HA #1                        | Exterior Trim Caulk                                     | NO                   |
| HA #2                        | Brick Kote Flashing                                     | NO                   |
| HA #3                        | Window Glazing  | YES                  |
| HA #4                        | Textured Ceiling  | NO                   |
| HA #5                        | Drywall Joint Compound/Drywall                          | YES/NO               |
| HA #6                        | 12" x 12" White Floor Tile/Yellow Glue                  | NO/NO                |
| HA #7                        | Beige Linoleum/Yellow Glue                              | NO/NO                |
| HA #8                        | HA #8 12" x 12" Grey Spotted Floor Tile/<br>Yellow Glue |                      |
| HA #9                        | · Roofing   | NO                   |

The locations, type of asbestos materials and approximate quantities present in the building is listed in the table below.

| LOCATION                                   | TYPE OF<br>MATERIAL       | QUANTITY                          | REQUIRED ASBESTOS<br>RESPONSE ACTION  |
|--|---------------------------|-----------------------------------|---|
| Exterior Windows<br>of House and<br>Garage | Window Glazing            | 16 SF<br>(196 LF)<br>[10 Windows] | Windows containing friable ACM window glazing must be removed if demolition activities will disturb the window glazing. |
| Throughout House                           | Drywall Joint<br>Compound | 1,692 SF                          | Friable ACM drywall joint compound must be removed prior to demolition.   |

SF = Square Feet

All asbestos-containing response activities must be conducted in accordance to the requirements of the OSHA Class II Asbestos work requirements found in 29 CFR 1926.1101 prior to renovation or demolition activities.

The information and opinions rendered in this report are exclusively for use by the City of South Lyon and it's agents. BDS will not distribute this report without your consent except as required by law or court order. The information and opinions are given in light of a limited assignment and should be implemented in light of that assignment. BDS accepts responsibility for the competent performance of its duties in execution of the assignment and preparing reports in accordance with the normal standards of the profession, but disclaims any responsibility for consequential damages.

It has been a pleasure to be of service to you. If you have any questions, or require additional information, please contact us at (586) 755-9030.

Thank You,

**BDS ENVIRONMENTAL** 

Kevin T. Vayko

MI Asbestos Inspector A#52844

General Manage

# CERTIFICATE OF LABORATORY ANALYSIS

# SanAir Technologies Laboratory

# **Analysis Report**

prepared for

**BDS Environmental** 

Report Date: 8/29/2019

Project Name: McHattie Park House (461 Washington), South Lyon

Project #: 19-711A SanAir ID#: 19043569



NVLAP LAB CODE 200870-0









# SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139 804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070 Web: http://www.sanair.com E-mail: iaq@sanair.com

BDS Environmental 13845 E. Nine Mile Road Warren, MI 48089

August 29, 2019

SanAir ID#

19043569

Project Name:

McHattie Park House (461 Washington), South Lyon

Project Number: 19-711A

Dear Ron Lawler,

We at SanAir would like to thank you for the work you recently submitted. The 24 sample(s) were received on Wednesday, August 28, 2019 via FedEx. The final report(s) is enclosed for the following sample(s): 01A, 01B, 01C, 02A, 02B, 02C, 03A, 03B, 03C, 04A, 04B, 04C, 04D, 05A, 05B, 05C, 06A, 06B, 07A, 07B, 08A, 08B, 09A, 09B.

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

andra Sobiino

SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter

- Analysis Pages

- Disclaimers and Additional Information

sample conditions:

24 sample(s) in Good condition



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

# Asbestos Chain of Custody

10

SanAir ID Number

19043569

|            | nologies Laboratory         |            |           |                     |                       |                       |                     |               | V              | , - , ,             |                | ,                |
|------------|-----------------------------|------------|-----------|---------------------|-----------------------|-----------------------|---------------------|---------------|----------------|---------------------|----------------|------------------|
| Company:   | BDS Environm                | ental      |           |                     | Project i             | <sub>#:</sub> 19-711A |                     |               | Collected by   | <sub>y:</sub> Kevin | Vayko          |                  |
| Address: 1 | 3845 East Nine              | e Mile Rd  |           | Proje               | ect Name: McHattie Pa | ark House (461 Wa     | shington            | ), South Lyon | Phone #: 5     | 86-755-             | 9030           |                  |
|            | <sub>ip:</sub> Warren, MI 4 |            |           | Date                | Collected: 08/27      | 7/2019                |                     |               | Fax #: 586     | 5-755-9             | 068            |                  |
|            | ollection: MI               | Account#:  | 245       | 1 <sub>P.O.</sub>   | Number:               |                       |                     |               | Email: rlaw    | er@BDS              | environm       | ental.con        |
|            | Bulk                        |            |           |                     | Air                   |                       |                     |               |                | Vermicu             |                |                  |
| ABB        | PLM EPA 600/R-              | 93/116     | V         | ABA                 | PCM NIOSH 7           | 400                   |                     | ABSE          | PLM EPA        |                     | •              | ] [              |
|            | Positive Stop               | v          |           | ABA-2               | OSHA w/ TWA           |                       |                     | ABSP          | PLM CAF        | RB 435 (L           | OD <1%)        |                  |
| ABEPA      | PLM EPA 400 Po              | oint Count |           | ABTEM               | TEM AHERA             |                       | $\overline{\sqcap}$ | ABSP1         | PLM CAF        | RB 435 (L           | OD 0.259       | %)               |
| ABB1K      | PLM EPA 1000 F              | oint Count | $\exists$ | ABATN               | TEM NIOSH 74          | 402                   | 同                   | ABSP2         | PLM CAF        | RB 435 (L           | OD 0.1%        | )                |
| ABBEN      | PLM EPA NOB                 |            | Ħ         | ABT2                | TEM Level II          |                       | Ħ                   | L             |                |                     |                |                  |
| ABBCH      | TEM Chatfield               |            | Ħ         | L                   | i                     |                       | <u> </u>            |               |                | Dust                |                |                  |
| ABBTM      | TEM EPA NOB                 |            | 퓜         |                     | New York EL           | .AP                   |                     | ABWA          | TEM Wip        | e ASTM              | D-6480         |                  |
| L          | <u> </u>                    |            | للا       | PLM NY              | PLM 600/M4            | 1 82 020              | П                   | ABDMV         | TEM Mic        | rovac AS            | TM D-575       | 55               |
|            | Water                       |            |           | ABEPA2              | NY ELAP 198.          | 1                     | 퓜                   | L             |                |                     |                | l- <del></del> - |
| ADUE       | EPA 100.2                   |            |           | ABENY               | NY ELAP 198.          | 6 PLM NOB             | 片                   | Matrix        | C              | ther                |                |                  |
| ABHE       | <u> </u>                    |            | اليا      | ABBNY               | NY ELAP 198.          | 4 TEM NOB             | 님                   |               | T              |                     |                | T                |
|            |                             |            |           |                     |                       |                       |                     | <u> </u>      |                |                     |                |                  |
| Tu         | ırn A <b>r</b> ound         | 3 HR (4    | HR TE     | M) 🗆                | 6 HR (8HR             | TEM) 🗆                |                     | 12 H          | ₹ 🗆            |                     | 24 HR          |                  |
|            | Times                       |            | )<br>Days |                     | 3 Days                |                       |                     | 4 Day         | rs □           |                     | 5 Days         |                  |
|            |                             | 1          |           |                     | <u> </u>              |                       |                     |               |                |                     |                |                  |
|            |                             |            |           |                     |                       |                       |                     |               |                |                     |                |                  |
| Special    | Instructions                |            |           |                     |                       |                       |                     |               |                |                     |                |                  |
|            |                             | Sa         | mple      | Identifica          | ation/Location        |                       |                     | lume          | Sample         | Flow                | Tin            |                  |
|            | mple #                      | Sa         | mple      |                     | ation/Location        |                       |                     | lume<br>Area  | Sample<br>Type | Flow<br>Rate        | Tin<br>Start - |                  |
|            |                             | Sa         | mple      | Identifica<br>See S |                       |                       |                     |               |                | 1                   |                |                  |
|            |                             | Sa         | mple      |                     |                       |                       |                     |               |                | 1                   |                |                  |
|            |                             | Sa         | mple      |                     |                       |                       |                     |               |                | 1                   |                |                  |
|            |                             | Sa         | mple      |                     |                       |                       |                     |               |                | 1                   |                |                  |
|            |                             | Sa         | mple      |                     |                       |                       |                     |               |                | 1                   |                |                  |
|            |                             | Sa         | mple      |                     |                       |                       |                     |               |                | 1                   |                |                  |
|            |                             | Sa         | mple      |                     |                       |                       |                     |               |                | 1                   |                |                  |
|            |                             | Sa         | mple      |                     |                       |                       |                     |               |                | 1                   |                |                  |
|            |                             | Sa         | mple      |                     |                       |                       |                     | Area          |                | 1                   |                |                  |
|            |                             | Sa         | mple      |                     |                       |                       |                     | Area          |                | 1                   |                |                  |
|            |                             | Sa         | mple      |                     |                       |                       |                     | Area          |                | 1                   |                |                  |
|            |                             | Sa         | mple      |                     |                       |                       |                     | Area          |                | 1                   |                |                  |
|            |                             | Sa         | mple      |                     |                       |                       |                     | Area          |                | 1                   |                |                  |
| Sal        | mple #                      |            | mple      | See Si              | heet                  |                       | or                  | Area          | Type           | 1                   | Start -        |                  |
| Sal        |                             | Date       | mple      | See Si              | heet                  | Received b            | or                  | Area          |                | Rate                | Start -        | - Stop           |
| Sal        | mple #                      |            | mple      | See Si              | heet                  |                       | or                  | Area          | Type           | Rate                | Start -        | - Stop           |

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 \_\_\_\_\_of

| SAMPLE HOMOGENEOUS AREA |                                   | SAMPLE LOCATION        |
|-------------------------|-----------------------------------|------------------------|
| 01A                     | Exterior Trim Caulk               | West                   |
| 01B                     | Exterior Trim Caulk               | South                  |
| 01C                     | Exterior Trim Caulk               | East                   |
| 02A                     | Brick Kote Flashing               | West                   |
| 02B                     | Brick Kote Flashing               | South                  |
| 02C                     | Brick Kote Flashing               | East                   |
| 03A                     | Window Glazing                    | West                   |
| 03B                     | Window Glazing                    | East                   |
| 03C                     | Window Glazing                    | Garage - Southside     |
| 04A                     | Textured Ceiling                  | Northwest Room         |
| 04B                     | Textured Ceiling                  | Southwest Room         |
| 04C                     | Textured Ceiling                  | East Room with Furnace |
| 04D                     | Textured Ceiling                  | Bathroom               |
| 05A                     | Drywall Joint Compound            | Northwest Room         |
| 05B                     | Drywall Joint Compound            | Southeast Room         |
| 05C                     | Drywall Joint Compound            | East Room with Furnace |
| 06A                     | 12" x 12" White Floor Tile        | Kitchen                |
| 06B                     | 12" x 12" White Floor Tile        | Kitchen                |
| 07A                     | Beige Linoleum                    | East Room with Furnace |
| 07B                     | Beige Linoleum                    | East Room with Furnace |
| 08A                     | 12" x 12" Grey Spotted Floor Tile | Bathroom               |
| 08B                     | 12" x 12" Grey Spotted Floor Tile | Bathroom               |
| 09A                     | Roofing                           | House - Eastside       |
| 09B                     | Roofing                           | Garage - Southside     |

Relinquished by Lew Vayl Date 08/27/2019 Time 18:30

Received by

Date

Time

Page 2 of 2

UB 8/24/19 9:50am

13509 East Boundary Road, Suite B, Midlothian, VA 23112 • 804-739-1751 • fax: 804-739-1753

### ASBESTOS 400 POINT COUNT ANALYSIS SUMMARY

CLIENT:

SanAir Technologies Laboratory, Inc.

TESC LOGIN #:

190829T

1551 Oakbridge Dr, Suite B

DATE OF RECEIPT:

08/28/2019

Powhatan, VA 23139

DATE OF ANALYSIS:

08/29/2019

CLIENT JOB #:

19043569

DATE OF REPORT:

08/29/2019

JOBSITE:

19-711A

ANALYST:

M. Steiniger

REPORTING LIMIT

0.25% Asbestos

| TESC<br>SAMPLE # | CLIENT<br>SAMPLE #  | GROSS DESCRIPTION | % ASBESTOS       |
|------------------|---------------------|-------------------|------------------|
| 1                | 3A                  | White chalky      | 2.75% Chrysotile |
| 2                | 5A - Joint compound | White chalky      | 1.75% Chrysotile |

Total Sample(s) Analyzed: 2

Reviewed By Authorized Signatory:

Feng Jiang, MS Senior Geologist, Laboratory Director Yuedong Fang, Senior Geologist

Samples are analyzed in accordance with "interim Method for the Determination of Asbestos in Bulk Insulation Samples," EPA/600/R-93-116, July 1993 (EPA-600/M4-82-020, Dec 1982), or the current US EPA method for the analysis of asbestos in building material. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested. NVLAP Lab Code: 200794-0 [LEGEND NAD = No Asbestos Detected]

13509 East Boundary Road, Suite B, Midlothian, VA 23112 804-739-1751 • fax: 804-739-1753

# BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.

1551 Oakbridge Dr, Suite B Powhatan, VA 23139

CLIENT JOB/#: 19043569

JOB SITE: 19-711A

TESC LOGIN #: 190828S

DATE OF RECEIPT: 08/28/2019 DATE OF ANALYSIS: 08/29/2019

DATE OF REPORT: 08/29/2019

ANALYST: M. Steiniger

| TESC<br>SAMPLE# | CLIENT SAMPLE ID<br>& GROSS DESCRIPTION | ESTIMATED<br>% ASBESTOS | NON ASBESTOS<br>% FIBERS | NON FIBROUS<br>% MATERIALS |
|-----------------|---|-------------------------|--------------------------|----------------------------|
| Ĩ               | 01A / White vinyl, black adhesive       | NAD                     |                          | 100%                       |
| 2               | 01B / White vinyl, black adhesive       | NAD                     |                          | 100%                       |
| 3               | 01C / White vinyl, black adhesive       | NAD                     |                          | 100%                       |
| 4               | 02A / Black tar-like, brown fibers      | NAD                     | 45% Cellulose            | 55%                        |
| 5               | 02B / Black tar-like, brown fibers      | NAD                     | 45% Cellulose            | 55%                        |
| 6               | 02C / Black tar-like, brown fibers      | NAD                     | 45% Cellulose            | 55%                        |
| 7               | 3A / White chalky                       | 3% Chrysotile           |                          | 97%                        |
| 8               | 3B /                                    | Positive Stop           |                          | 100%                       |
| 9               | 3C/                                     | Positive Stop           |                          | 100%                       |
| 10              | 04A / White chalky                      | NAD                     | 3% Cellulose             | 97%                        |

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (EPA-600/M4-82-020, Dec 1982), or the current US EPA method for the analysis of asbestos in building material. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested.

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:

13509 East Boundary Road, Suite B, Midlothian, VA 23112 804-739-1751 \* fax: 804-739-1753

### BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.

1551 Oakbridge Dr, Suite B Powhatan, VA 23139 TESC LOGIN #: 190828S

DATE OF RECEIPT: 08/28/2019 DATE OF ANALYSIS: 08/29/2019

DATE OF REPORT: 08/29/2019

CLIENT JOB/#: 19043569

JOB SITE: 19-711A

ANALYST: M. Steiniger

| TESC<br>SAMPLE# | CLIENT SAMPLE ID<br>& GROSS DESCRIPTION    | ESTIMATED<br>% ASBESTOS | NON ASBESTOS<br>% FIBERS | NON FIBROUS<br>% MATERIALS |
|-----------------|--|-------------------------|--------------------------|----------------------------|
| 11              | 04B / White chalky                         | NAD                     | 3% Cellulose             | 97%                        |
| 12              | 04C / White chalky                         | NAD                     | 3% Cellulose             | 97%                        |
| 13              | 04D / White chalky                         | NAD                     | 3% Cellulose             | 97%                        |
| 14A             | 05A - Drywall / White chalky, brown fibers | NAD                     | 35% Cellulose            | 65%                        |
| 14B             | 05A - Joint compound / White chalky        | 2% Chrysotile           |                          | 98%                        |
| 15A             | 05B - Drywall / White chalky, brown fibers | NAD                     | 35% Cellulose            | 65%                        |
| 15B             | 05B - Joint compound /                     | Positive Stop           |                          | 100%                       |
| 16              | 05C / White chalky, brown fibers           | NAD                     | 25% Cellulose            | 75%                        |
| 17A             | 08A - Tile / Off-white vinyl               | NAD                     |                          | 100%                       |
| 17B             | 08A - Mastic / Yellow adhesive             | NAD                     |                          | 100%                       |

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (EPA-600/M4-82-020, Dec 1982), or the current US EPA method for the analysis of asbestos in building material. None Detected: not detected al/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested.

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| TESC<br>SAMPLE# | CLIENT SAMPLE ID<br>& GROSS DESCRIPTION | ESTIMATED<br>% ASBESTOS | NON ASBESTOS<br>% FIBERS | NON FIBROUS % MATERIALS |
|-----------------|---|-------------------------|--------------------------|-------------------------|
| 18A             | 08B - Tile / Off-white vinyl            | NAD                     |                          | 100%                    |
| 18B             | 08B - Mastic / Yellow adhesive          | NAD                     |                          | 100%                    |
| 19Å             | 07A - Tile / Off-white vinyl            | NAD                     |                          | 100%                    |
| 19B             | 07A - Mastic / Yellow adhesive          | NAD                     |                          | 100%                    |
| 20A             | 07B - Tile / Off-white vinyl            | NAD                     |                          | 100%                    |
| 20B             | 07B - Mastic / Yellow adhesive          | NAD                     |                          | 100%                    |
| 21A             | 08A - Tile / Light gray vinyl           | NAD                     |                          | 100%                    |
| 21B             | 08A - Mastic / Yellow adhesive          | NAD                     |                          | 100%                    |
| 22A             | 08B - Tile / Light gray vinyl           | NAD                     |                          | 100%                    |
| 22B             | 08B - Mastic / Yellow adhesive          | NAD                     |                          | 100%                    |

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (EPA-600/M4-82-020, Dec 1982), or the current US EPA method for the analysis of asbestos in building material. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested.

NVLAP Lab Code: 200794-0

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13509 East Boundary Road, Suite B, Midlothian, VA 23112 804-739-1751 • fax: 804-739-1753

### BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.

1551 Oakbridge Dr, Suite B Powhatan, VA 23139 TESC LOGIN #: 190828S

DATE OF RECEIPT: 08/28/2019 DATE OF ANALYSIS: 08/29/2019

DATE OF REPORT: 08/29/2019

CLIENT JOB/#: 19043569

JOB SITE: 19-711A

ANALYST: M. Steiniger

| TESC<br>SAMPLE# | CLIENT SAMPLE ID<br>& GROSS DESCRIPTION | ESTIMATED<br>% ASBESTOS | NON ASBESTOS<br>% FIBERS        | NON FIBROUS<br>% MATERIALS |
|-----------------|---|-------------------------|---------------------------------|----------------------------|
| 23              | 09A / Black tar-like                    | NAD                     | 15% Cellulose<br>10% Fiberglass | 75%                        |
| 24              | 08B / Black tar-like                    | NAD                     | 15% Cellulose<br>10% Fiberglass | 75%                        |

Total Samples/Layers Analyzed: 29

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (EPA-600/M4-82-020, Dec 1982), or the current US EPA method for the analysis of asbestos in building material. None Detected: not detected al/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested.

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:

| Received by       | Diagonal Translation |   |      |     |   |           |   |     | See Attached | Sample number        |                 | TAT: 2 Hour: 6 Hour: 6 CONTACT METHOD: Phone: |               | AB CUSTOMER: SanAir Technologies Laboratory  ADDRESS: 1551 Oakbridge Drive, Suite B | CHAIN OF CUSTODY FORM |
|-------------------|----------------------|---|------|-----|---|-----------|---|-----|--------------|----------------------|-----------------|---|---------------|---|-----------------------|
|                   |                      |   |      |     |   | 1         |   |     | 8/27/19      | Sample Date          | П               | DD: Phone:                                    | Powhata       | SanAir Technologies L.<br>1551 Oakbridge Drive,                                     | DY FOR                |
| 11                |                      |   |      |     | - | -         |   | -   |              | Bulk ID by PLM       | 1               | ne:   | in, V         | echi  | ŝ                     |
|                   |                      | 11111   |      | -   | - | +-        |   | -   | _            | PCM Fiber Count      | 1               | 18  | îrgin         | dge   |                       |
|                   |                      | ++++  |      | -   | - | +-        | - | -   |              | PLM Point Count 400  | >               | 804-897-1177                                  | ia, 2         | gies<br>Driv  |                       |
|                   |                      | -   | +++  | -   | - | +-        |   |     |              | PLM Point Count 1000 | Asbestos        | 97-1177                                       | 313           | e, Si   |                       |
|                   | -                    | -   | -+-  | ++  | - | +         |   |     | _            | PLM Gravimetric      | stos            | 77  | 9             | Suite   |                       |
|                   |                      |   |      | +++ | - | +         |   |     |              | CARB 435 (Soil only) | 1 1             |   | ×             | В   | 3                     |
|                   |                      | -   | +-+  | 1   | _ | #         |   |     |              | TEM AHERA Air        | ] [             |   |               | 11  |                       |
|                   | <del> </del>         | -   | 1-1  | 1   |   | T         | - |     |              | TEM Bulk Chatfield   |                 | d   | à             | Н   |                       |
| 60                | 9                    |   |      |     |   | 1         |   |     |              | Air                  |                 |   | AS Hour       |   |                       |
| Signature         | Signature            | -   | +-+  |     |   | $\dagger$ |   |     |              | Paint(% & PPM)       |                 |   | Ŧ             | 1   |                       |
| ture              |                      |   | 111  |     |   |           |   |     |              | Soil(PPM)            | ] _             | Fax:  |               |   |                       |
| (0)               | 9                    |   | +-+- |     |   | +         |   |     |              | Wipe                 | Lead            |   | w             | П   |                       |
| 1                 |                      | ++++  | ++   | 1   |   | T         |   |     |              | TCLP (Pb)            |                 |   | Dav:          | Ш   |                       |
| TO S              | 4                    | <del>                                      </del> |      |     |   | +         |   | 3.7 |              | Waster Water         |                 |   | <b>.</b>      | Ш   |                       |
| S.                |                      |   | 1    |     |   | _         |   |     |              | Drinking Water (Pb)  |                 |   |               | Ш   |                       |
|                   |                      |   | -    |     |   | T         |   |     |              | TCLP RCRA 8          |                 | 100   | U1            |   |                       |
| 1                 |                      |   | 1    |     |   | T         |   |     |              | CAM 17               | Other           |   | Day:          |   |                       |
| 1                 |                      |   |      |     |   |           |   |     |              | Welding Fume         | Z.              | Hì  |               | П   |                       |
| inter             |                      |   | 11   |     | 1 | 1         |   |     |              | Toxic Metal Profile  | Metals          |   |               |   |                       |
|                   |                      |   |      |     |   | +         |   |     |              | Biocassette          | Air Quality/Mol | ۱'_   |               |   | _                     |
|                   |                      |   |      |     |   |           |   |     |              | Slide                | Qua             | Email:  | R Z           | SS  | DAT                   |
|                   |                      |   |      |     |   |           |   |     |              | Surface Tape         | - Jij           | <b>#</b>                                      | PROJECT SITE: | CONTACT NAME  | <br>0:3               |
|                   |                      |   |      |     |   |           |   |     |              | Surface Swab         |                 | 12.   | 3             | 크의  | 8/28                  |
|                   |                      |   |      |     |   | _         | _ |     |              | Bulk                 | 0.              | 6   | 31            | NAME:   | /20                   |
| Da                | Da                   |   |      |     |   |           |   |     |              | Air Volume (L)       | Т               | sana  | ***           | Ę   | 19                    |
| le/1              | Date/Time:           |   |      |     |   |           |   |     |              | Wipe Area (ft²)      |                 | air.o   | 17)           | 315   |                       |
| lme               | me.                  |   |      |     |   |           |   |     |              | Scrape Area (cm²)    |                 | l lim   | 19-711A       | ndi<br>043  |                       |
| Date/Time:AUt 2.0 |                      |   |      |     | - | +         | + | -   |              |                      | - 7             | iaq@sanair.com ssobrino@sanair.com            | 1             | Sandra Sobrino<br>19043569  |                       |
| 0.7               | 20                   |   |      |     |   |           |   |     |              |                      |                 | Tino  |               | bring   |                       |
| 2002              | 3                    |   |      |     |   |           |   |     | 8            | g è                  |                 | @sa   |               |   |                       |
| 2.3               | 7                    |   |      |     |   |           |   |     |              | Comments             |                 | nair  |               |   |                       |
| 17                | 4                    |   |      |     |   |           |   |     |              | le n                 |                 | 8   |               |   |                       |
| 4                 | 1                    |   |      |     |   |           |   |     |              | र्छ                  |                 |   |               |   |                       |
| 10                |                      |   |      |     |   |           |   |     |              | 2                    |                 |   |               |   |                       |
| 13                |                      |   |      |     |   | _         |   |     |              |                      |                 | _   | 1             | 1   |                       |

908285

19043569

| SANTPLAI<br>NUNTBER: | HOMOGENEOUS AREA                  | SAMPLE LOCATION        |  |  |  |  |
|----------------------|-----------------------------------|------------------------|--|--|--|--|
| OΙΔ                  | Exterior Trim Caulk               | West                   |  |  |  |  |
| 01B                  | Exterior Trim Caulk               | South                  |  |  |  |  |
| oic                  | Exterior Trim Caulk               | East                   |  |  |  |  |
| 02A                  | Brick Kote Flashing               | West                   |  |  |  |  |
| 028                  | Brick Kote Flashing               | South                  |  |  |  |  |
| 02C                  | Brick Kote Flashing               | East                   |  |  |  |  |
| 03A                  | Window Glazing                    | West                   |  |  |  |  |
| 088                  | Window Glazing                    | East                   |  |  |  |  |
| 03C                  | Window Glazing                    | Garage - Southside     |  |  |  |  |
| 04 A                 | Textured Ceiling                  | Northwest Room         |  |  |  |  |
| 043                  | Textured Ceiling                  | Southwest Room         |  |  |  |  |
| 040                  | Textured Ceiling                  | East Room with Furnace |  |  |  |  |
| 040                  | Textured Ceiling                  | Bathroom               |  |  |  |  |
| 05A                  | Drywall Joint Compound            | Northwest Room         |  |  |  |  |
| 1058                 | Drywall Joint Compound            | Southeast Room         |  |  |  |  |
| 05¢                  | Drywall Joint Compound            | East Room with Furnace |  |  |  |  |
| 06A                  | 12" * 12" White Floor Tile        | Kitchen                |  |  |  |  |
| 068                  | 12" x 12" White Floor Tile        | Kitchen                |  |  |  |  |
| 07A                  | Beige Linoleum                    | East Room with Furnace |  |  |  |  |
| 07B                  | Beige Linoleum                    | East Room with Furnace |  |  |  |  |
| OSA                  | 12" x 12" Grey Spotted Floor Tile | Bathroom               |  |  |  |  |
| 088                  | 12" x 12" Grey Spotted Floor Tile | Bathroom               |  |  |  |  |
| OPA                  | Roofing                           | House - Eastside       |  |  |  |  |
| 023                  | Roofing                           | Garage - Southside     |  |  |  |  |

Mame Jung

AUG 28 2019 7:30 pm

1908285

|  | Bulk           | Contract to the contract of th |            | Air  |                   | \$          | oil/Vermi                | culite             |                       |  |
|--|----------------|--|------------|--|-------------------|-------------|--------------------------|--------------------|-----------------------|--|
| ES   | PLM EPA 600/R  |  | ABA        | PCM NIOSH 7400   | ABS               |             | EPA 600/R                |                    | A                     |  |
| Positive Stop   v   BEPA   PLM EPA 400 Point Count   T |                |  | ABA-2      | OSHA w/ TWA <sup>,</sup>   | ABS               |             | CARB 435                 |                    |                       |  |
| BB1K   | PLM EPA 400 Po |  | ABTEM      | The state of the s | ☐ ABS             |             | CARB 435                 |                    | 100                   |  |
| BBIK PLM EPA 1000 Point Count                          |                |  | ABATN      | TEM NIOSH 7402   | ☐ ABS             | SP2 PLM     | CARB 435                 | ARB 435 (LOD 0.1%) |                       |  |
| BBCH   | TEM Chatfield  |  | ABT2       | TEM Level II   |                   |             | 1200                     |                    |                       |  |
| BITM   | TEM EPA NOB    |  |            | New York ELAP  | [ADVA             | /A   TEAN   | Dust                     |                    |                       |  |
|  |                |  | PLM NY     |  | ABV ABD           |             | Vipe ASTM<br>Microvac As |                    |                       |  |
|  | Water          |  | ABEPA2     | The state of the s |                   | INIV   IEMI | viicrovac A              | 5 TM D-57          | 55                    |  |
| BHE  | EPA 100.2      |  | ABENY      | NY ELAP 198.6 PLM NOB  | Matr              | rix         | Other                    |                    |                       |  |
|  |                |  | ABBNY      | NY ELAP 198.4 TEM NOB  |                   |             |                          |                    | -1                    |  |
|  |                |  |            |  |                   |             | alternative services     |                    |                       |  |
| Turn Around<br>Times                                   |                | 3 HR (4 HR TE  | EM) □      | 6 HR (8HR TEM)   | 12                | HR 🗆        |                          | 24 HR              |                       |  |
|  |                | 2 Days   |            | 3 Days □   | 4 [               | Days 🗆      |                          | 5 Days             |                       |  |
| ecial I  | Instructions   |  |            |  |                   |             |                          |                    |                       |  |
| Sample # Sample  |                |  | Identifica | tion/Location  | Volume<br>or Area | Sample      |                          |                    | Time*<br>Start – Stor |  |
| -  |                |  | See Sh     |  | Of Area           | Туре        | Rate                     | Start -            | Stop                  |  |
| 11111  |                |  | 366 31     | ieet   |                   | -           | +                        |                    |                       |  |
| -  |                | -  |            |  |                   |             | -                        |                    |                       |  |
|  |                |  |            |  |                   |             | -                        |                    |                       |  |
|  |                | 1  |            |  |                   |             | -                        |                    | -                     |  |
|  |                | 1  |            |  |                   |             | +                        | -                  |                       |  |
| H  |                |  |            |  |                   | 1           | -                        | -                  | -                     |  |
| -  |                |  | -          |  |                   |             |                          | -                  | -                     |  |
| 1 1 1 1 1 1 1 1 1                                      |                |  |            |  |                   |             | -                        | -                  | _                     |  |
|  |                |  |            |  |                   |             | -                        |                    |                       |  |
| -  |                | <del> </del>   |            |  |                   |             |                          |                    |                       |  |
|  |                |  |            |  |                   |             |                          |                    |                       |  |
|  |                |  |            |  |                   |             |                          |                    |                       |  |

Page 12 of 12