Asbestos Survey Report
2510 Crestwood Blvd
Irondale, Alabama
Building & Earth Project No.: BH190118

Prepared For:

The Commercial Development Authority of The City of Irondale

May 14, 2019

BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers

BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers

5545 Derby Drive
Birmingham, AL 35210
Ph: (205) 836-6300
www.BuildingAndEarth.com

May 14, 2019

The Commercial Development Authority of The City of Irondale
101 20th Street South
Irondale, Alabama 35210

Attention: Mr. David Pugh (dpugh@bradley.com)

Subject: Asbestos Survey for
2510 Crestwood Blvd
Irondale, AL 35210
Building & Earth Project No: BH190118

Dear Mr. Pugh:

Building & Earth Sciences, Inc. has completed the authorized Asbestos Survey for 2510 Crestwood Blvd in Irondale, AL. The Asbestos Survey was conducted in general accordance with the proposed scope of work and with the terms and conditions stated in Building & Earth's Proposal No. BH21081, dated February 15, 2019.

The inspection found evidence of materials containing greater than 1% asbestos collected from the buildings on April 22, 2019. Please consult the attached report for detailed information regarding the asbestos survey and identified asbestos-containing materials.

We appreciate the opportunity to work with you on this project. If you have any questions regarding the information contained in this report, please do not hesitate to call.

Respectfully Submitted,
BUILDING & EARTH SCIENCES, INC.

Brandon Kyle Haggard
Staff Professional

Richard D. Brown, P.E.
Assistant Branch Manager

Table of Contents

1.0 INTRODUCTION

Building & Earth performed an asbestos survey of 2510 Crestwood Blvd in Irondale, AL. Interior and exterior building components to be impacted by renovation or demolition activities were surveyed and homogeneous areas of suspect asbestos-containing materials (ACM) were visually identified and documented. An Alabama accredited asbestos inspector submitted the suspect ACM samples to an accredited laboratory for analysis by Polarized Light Microscopy (PLM). The samples were taken in general accordance with the sampling protocols outlined in Environmental Protection Agency (EPA) regulation 40 CFR 763 (Asbestos Hazard Emergency Response Act, AHERA).

1.1 PURPOSE

The purpose of the Asbestos Survey was to identify asbestos-containing materials prior to the renovation or demolition of 2510 Crestwood Blvd in Irondale, AL. EPA regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), prohibits the release of asbestos fibers to the atmosphere during demolition or renovation activities. The asbestos NESHAP requires that regulated asbestos-containing building materials be identified, classified, and quantified prior to the planned demolition or renovation.

1.2 SCOPE OF SERVICES

Building & Earth performed the following services:

- Performed an inspection of the subject buildings to identify suspect asbestos-containing materials (ACM) by an EPA accredited building inspector.
- Documented readily apparent and accessible, friable and non-friable, suspect ACM in the subject buildings.
- Sampled materials as required.
- Analyzed samples for asbestos content by Polarized Light Microscopy (PLM) in accordance with the EPA Methodology (visual inspection).
- Prepared this written report documenting the inspection process, presenting all sampling and analytical results, and generally identifying ACM locations and approximate quantities in accordance with "Communication of Hazards" requirements pursuant to 29 CFR 1926.1101(k). The report includes recommendations for response actions pertaining to any materials identified as ACM (>1.0% asbestos content). This report includes several appendices which contain important information that may be essential to proper understanding of the data summarized in the narrative sections.

It should be noted during the renovation or demolition that suspect ACMs including floor tile, ceiling tile, pipe insulation, plaster, various mastics, and miscellaneous other materials may have been concealed under carpet, above suspended ceilings, or in numerous other locations. It is also not uncommon to find multiple layers of floor tiles and multiple layers of roofing materials that were not visible during this sampling event. Should suspect materials be uncovered prior to or during the abatement or demolition process, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny their asbestos content.

2.0 REGULATORY INFORMATION

This section of the report provides basic information on some of the key criteria applicable to the inspection performed by Building & Earth as well as regulatory obligations applicable to building owners and contractors involved in operations impacting ACM. The information below is presented in a very general nature and is not a complete representation of regulatory requirements. Any key parties, that will be involved in the demolition and/or renovation projects, and whom are not knowledgeable of the associated asbestos regulatory requirements, should consult with the regulatory authorities mentioned herein and/or an asbestos abatement professional such as a certified asbestos project designer, before proceeding with any renovation, salvage, or demolition operations that might disturb any ACM identified herein (if applicable).

The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. It also requires the identification and classification of existing building materials prior to demolition or renovation activity. Under NESHAP, asbestos-containing building materials are classified as either friable, Category I non-friable or Category II non-friable ACM. Friable materials are those that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure. Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos. Category II non-friable ACM are any materials other than Category I materials that contain more than 1% asbestos.

Friable ACM, Category I and Category II non-friable ACM which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities are considered regulated ACM (RACM). RACM must be removed prior to demolition activities which will disturb the materials. The owner or operator must provide the Alabama Department of Environmental Management (ADEM) with written notification of planned removal activities at least 10 working days prior to the commencement of asbestos abatement activities for projects which affect at least 160-

square feet, 260-linear feet, or 35-cubic feet. Removal of RACM must be conducted by an Alabama-licensed asbestos abatement contractor. A copy of the notification form is attached as Appendix G.

The OSHA Asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeter of air (0.1 f/cc as an eight hour time weighted average). The OSHA standard classifies construction and maintenance activities which could disturb ACM, and specifies work practices and precautions which employers must follow when engaging in each class of regulated work.

3.0 BUILDING DESCRIPTION

The asbestos survey includes the following building sections: office building, rooms 121-140, rooms 143-149, rooms 164-168 & 225-229, rooms 101-120 & 201-220, rooms 151-160 & 251-260, and pool/storage building.

Office Building

The building is an approximately 2,800 ft^2 on a concrete slab foundation. The building is a two-story brick structure with glass windows in metal frames. The roofing system is a metal roof system. The bottom floor of the building is an office area and the second floor are living quarters. Interior wall units in the building consist primarily of drywall, ceramic tile, and wood. The ceilings throughout the building consist of 1'x1' ceiling tile and drywall with a textured coating. Floors in the building consist of carpet and ceramic floor tile. The heating, ventilation and air conditioning (HVAC) for the building consists of packaged terminal air conditioner (PTAC) units.

Rooms 121-140

The 121-140 rooms include three (3) buildings totaling approximately 8,700 ft^2 on concrete slab foundations. The buildings are concrete masonry unit (CMU) structures with vinyl siding and glass windows in metal frames. The roofing system consists of roofing shingles and a layer of felt paper. Interior wall units in the buildings consist primarily of drywall and wood. The ceilings throughout the buildings are 1'x1' ceiling tiles and drywall with ceiling texture. Floors in the buildings consist of carpet and ceramic floor tile. The heating, ventilation and air conditioning (HVAC) for the buildings consist of PTAC units.

Rooms 143-149

The 143-149 rooms includes an approximately 2,700 ft^2 building on a concrete slab foundation. The building is a CMU structure with vinyl siding and glass windows in metal

frames. The roofing system consists of roofing shingles and a layer of felt paper. Interior wall units in the building consists primarily of drywall and wood. The ceilings throughout the building are 1'x1' ceiling tiles and drywall with ceiling texture. Floors in the building consist of carpet, vinyl sheet flooring, 12''x12'' vinyl floor tile, and ceramic floor tile. The heating, ventilation and air conditioning (HVAC) for the building consists of PTAC units.

Rooms 164-168 & 225-229

The 164-168 and 225-229 rooms includes an approximately 6,000 ft^2 building on a concrete slab foundation. The building is a brick structure with vinyl siding and glass windows in metal frames. The roofing system consists of a metal roof system. Interior wall units in the building consists primarily of drywall, ceramic tile, and wood. The ceilings throughout the building are drywall with ceiling texture. Floors in the building consist of carpet and ceramic floor tile. The heating, ventilation and air conditioning (HVAC) for the building consists of PTAC units.

Rooms 101-120 & 201-220

The 101-120 and 201-220 rooms includes an approximately 15,000 ft^2 building on a concrete slab foundation. The building is a brick structure with vinyl siding and glass windows in metal frames. The roofing system consists of a metal roof system. Interior wall units in the building consists primarily of drywall, ceramic tile, and wood. The ceilings throughout the building are drywall with ceiling texture. Floors in the building consist of carpet and ceramic floor tile. The heating, ventilation and air conditioning (HVAC) for the building consists of PTAC units.

Rooms 151-160 & 251-260

The 151-160 and 251-260 rooms includes an approximately 18,000 ft^2 building on a concrete slab foundation. The building is a brick structure with vinyl siding and glass windows in metal frames. The roofing system consists of a metal roof system. Interior wall units in the building consists primarily of drywall, ceramic tile, and wood. The ceilings throughout the building are drywall with ceiling texture. Floors in the building consist of carpet, vinyl sheet flooring and ceramic floor tile. The heating, ventilation and air conditioning (HVAC) for the building consists of PTAC units.

Pool House & Storage Building

The pool house and storage building include two (2) connected buildings totaling approximately 2,500 ft^2 on a concrete slab foundation. The buildings are brick and wooden structures with glass windows in wood frames. The roofing system consists of asphalt

roofing membrane and a layer of felt paper on the pool house and metal roof on the storage building. Interior wall units in the buildings consist primarily of wood. The ceilings throughout the buildings are metal and wood. Floors in the buildings concrete. The heating, ventilation and air conditioning (HVAC) for the buildings was not observed.

4.0 FIELD ACTIVITIES

The Asbestos Surveys were performed on April 22, 2019 by Mr. Kyle Haggard. Mr. Haggard is a state of Alabama accredited asbestos inspector. A copy of Mr. Haggard's asbestos inspector certificate is attached as Appendix A.

4.1 VISUAL ASSESSMENT

The asbestos surveys began with a visual observation of the interior and exterior of the buildings to identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout in terms of color, texture, and date of application. Building materials identified as concrete, glass, wood, masonry, metal or rubber were not considered suspect ACM.

4.2 PHYSICAL ASSESSMENT

A physical assessment of each homogeneous area of suspect ACM was performed to confirm the friability and condition of the suspect materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was confirmed by physically touching the suspect materials. Also, materials thought to be and typically classified as non-friable may receive a reclassification of friable if the material is damaged.

4.3 SAMPLE COLLECTION

Based on the results of the visual observation, bulk samples of suspect ACM were collected using wet methods to reduce the potential for fiber release. Random samples of suspect materials were collected in each homogeneous area. Samples were placed in sealable containers and labeled with samples numbers. One hundred twenty-five (125) bulk samples were collected from thirty-five (35) homogenous areas of suspect ACM from 2510 Crestwood Blvd. A summary of suspect ACM samples collected during the survey is included as Appendix B. A summary of identified ACM samples collected during the survey is included as Appendix C. Sampling locations diagrams are included in Appendix D. Photographs of the building and identified materials are included in Appendix E.

5.0 SAMPLE ANALYSIS

The bulk samples were submitted under a chain of custody to Safety Environmental Laboratories and Consulting, Inc. (SELC) in Pelham, Alabama for analysis by PLM with

dispersion staining techniques per EPA methodology (EPA Method 600/R-93/116). The percentage of asbestos was determined by microscopic visual estimation. SELC is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP Accreditation No. 200873-0). Laboratory analytical reports and chains of custody are included in Appendix F.

6.0 FINDINGS

Based on the results of laboratory analysis, the following samples collected on April 22, 2019 were found to contain asbestos:

- Gray caulking on exterior window frames and brick walls on office building
- Ceiling texture on interior ceilings of office building
- Joint compound on non-asbestos containing drywall ceilings above non-asbestos containing 1'x1' ceiling tiles in office building and walls
- Black mastic on non-asbestos containing 12''x12'' vinyl floor tile in room 147 bathroom
- Ceiling texture on interior ceilings in rooms 164-168 & 225-229
- Ceiling texture on interior ceilings in rooms 101-120 & 201-220
- Joint compound on non-asbestos containing drywall in rooms 151-160 & 251-260
- Black/brown mastic on non-asbestos containing vinyl sheet flooring in kitchen areas in rooms 151-160 & 251-260
- Ceiling texture on interior ceilings in rooms 151-160 & 251-260

The asbestos-containing ceiling texture in the office building, rooms 164-168 & 225-229, rooms 101-120 & 201-220, and rooms 151-160 & 251-260 is considered RACM (regulated asbestos-containing material). This material must be removed by a State of Alabama-licensed asbestos abatement contractor prior to the disturbance.

The asbestos-containing joint compound on non-asbestos containing drywall on ceilings and walls in office building and rooms 151-160 & 251-260; and gray caulking on exterior window frames on office building are considered NESHAP Category II non-friable. Since renovation or demolition activities will disturb these materials, the materials must be removed by a State of Alabama-licensed asbestos abatement contractor prior to the disturbance.

The asbestos-containing black mastic on non-asbestos 12''x12'' vinyl floor tile in room 147 and black/brown mastic on non-asbestos containing vinyl sheet flooring in kitchen areas in rooms 151-160 & 251-260 are considered NESHAP Category I non-friable. Since renovation or demolition activities will disturb these materials, Building and Earth

recommends the materials be removed by a State of Alabama-licensed asbestos abatement contractor prior to the disturbance.

It should be noted that suspect materials, other than those identified during the survey may exist. Should suspect materials other than those that were identified during this survey be uncovered prior to or during demolition activities, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny their asbestos content.

7.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the inspection performed by Building & Earth on the date listed herein. It should be noted that materials within a structure that appear alike to materials in other parts of a structure were assumed to be homogeneous and therefore were not necessarily tested at each location, which is consistent with EPA guidance. If any suspect materials that do not appear to have been tested will be disturbed by future renovation or demolition efforts, then those materials should be assumed to contain asbestos or tested to determine asbestos content.

This report is designed to provide the building owner, architect, engineer, construction manager, contractors, and other concerned parties, with documentation that a regulatory compliant investigation for ACM has been conducted, and to aid their ability to identify the ACM. This report was developed to be used intact with all appendices listed in the table of contents. Anyone using only a portion of this report assumes the risk of potential misinterpretation of the data. This report is not intended to be a stand-alone bidding/contract document. It was not within the scope of services of this inspection for Building & Earth Sciences to provide asbestos abatement guidance. For advice on abatement contract matters please consult with a certified asbestos abatement professional employed by Building & Earth or another qualified firm.

APPENDIX A
INSPECTOR CREDENTIALS

THE UNIVERSITY OF ALABAMA®

UA SafeState

has examined the documentation of asbestos training and qualifications of the person named below and confers this

Certificate of Accreditation

For the Asbestos Contractor Discipline

INSPECTOR

Brandon K Haggard

Alabama Accreditation Number
AIN0518673982

Certificate Expiration Date
May 3, 2019

This certificate has been issued pursuant to the authority granted to The University of Alabama SafeState Program by the Alabama Asbestos Contractor Accreditation Act, Alabama Act No. 89-517, May, 1989 and Alabama Act No. 97-626, May, 1997.

Executive Director

Associate Director for Environmental Programs

APPENDIX B

ASBESTOS SAMPLE SUMMARY

2510 Crestwood Blvd, Irondale, Alabama					
HA[1]	Sample No.	Description	Sample Location	Friability[2]	% Asbestos and Type
1	1-1	White Ceiling Texture	Exterior under Office Building Awning	Non-Friable	ND[3]
	1-2	White Ceiling Texture	Exterior under Office Building Awning	Non-Friable	ND
	1-3	White Ceiling Texture	Exterior under Office Building Awning	Non-Friable	ND
2	2-1	Gray Caulking	Exterior Around Window Frames & Brick of Office Building	Non-Friable	12% C[4] – Gray Caulking
	2-2	Gray Caulking	Exterior Around Window Frames & Brick of Office Building	Non-Friable	12% C – Gray Caulking
	2-3	Gray Caulking	Exterior Around Window Frames & Brick of Office Building	Non-Friable	12% C – Gray Caulking
3	3-1	Ceramic Tile Mortar & Grout	Floors in Office Building	Non-Friable	ND
	3-2	Ceramic Tile Mortar & Grout	Floors in Office Building	Non-Friable	ND
	3-3	Ceramic Tile Mortar & Grout	Floors in Office Building	Non-Friable	ND
4	4-1	1'x1' Ceiling Tile w/Brown Adhesive	Ceilings in Office Building	Non-Friable	ND
	4-2	1'x1' Ceiling Tile w/Brown Adhesive	Ceilings in Office Building	Non-Friable	ND
	4-3	1'x1' Ceiling Tile w/Brown Adhesive	Ceilings in Office Building	Non-Friable	ND

[1] HA – Homogenous Area

[2] Friability was determined according to a material's current condition.
Friable: Materials that can be crumbled, crushed, or pulverized under hand pressure
Non-Friable: Materials that do not meet the definition of friable
Category I Non-Friable: Non-friable ACMs such as gaskets, valve packings, resilient vinyl floor covering (floor tile and linoleum), and asphalt roofing material
Category II Non-Friable: Includes all other non-friable ACMs

[3] ND – None Detected

[4] C – Chrysotile

2510 Crestwood Blvd, Irondale, Alabama					
HA[1]	Sample No.	Description	Sample Location	Friability[2]	% Asbestos and Type
5	5-1	Ceiling Texture	Interior on Ceilings in Office Building	Non-Friable	2% C[3] – Chrysotile
	5-2	Ceiling Texture	Interior on Ceilings in Office Building	Non-Friable	2% C – Chrysotile
	5-3	Ceiling Texture	Interior on Ceilings in Office Building	Non-Friable	2% C – Chrysotile
	5-4	Ceiling Texture	Interior on Ceilings in Office Building	Non-Friable	2% C – Chrysotile
	5-5	Ceiling Texture	Interior on Ceilings in Office Building	Non-Friable	2% C – Chrysotile
	5-6	Ceiling Texture	Interior on Ceilings in Office Building	Non-Friable	2% C – Chrysotile
	5-7	Ceiling Texture	Interior on Ceilings in Office Building	Non-Friable	2% C – Chrysotile
6	6-1	Drywall, Joint Compound & Tape	Above 1'x1'' Ceiling Tile & Ceilings Throughout Office Building	Non-Friable	3% C – Ceiling Texture ND[4] – Tape 3% C – Joint Compound ND – Tape 2% C – Joint Compound ND – Drywall
	6-2	Drywall, Joint Compound & Tape	Above 1'x1'' Ceiling Tile & Ceilings Throughout Office Building	Non-Friable	2% C – Ceiling Texture ND – Tape 3% C – Joint Compound ND – Drywall
	6-3	Drywall, Joint Compound & Tape	Above 1'x1'' Ceiling Tile & Ceilings Throughout Office Building	Non-Friable	3% C – Ceiling Texture ND – Tape 3% C – Joint Compound ND – Tape 3% C – Joint Compound ND – Drywall

[1] HA – Homogenous Area

[2] Friability was determined according to a material's current condition.
Friable: Materials that can be crumbled, crushed, or pulverized under hand pressure
Non-Friable: Materials that do not meet the definition of friable
Category I Non-Friable: Non-friable ACMs such as gaskets, valve packings, resilient vinyl floor covering (floor tile and linoleum), and asphalt roofing material
Category II Non-Friable: Includes all other non-friable ACMs

[3] C – Chrysotile

[4] ND – None Detected

2510 Crestwood Blvd, Irondale, Alabama					
HA[1]	Sample No.	Description	Sample Location	Friability[2]	% Asbestos and Type
7	7-1	Black Sink Mastic	Living Quarters above Office Building	Non-Friable	ND[3]
	7-2	Black Sink Mastic	Living Quarters above Office Building	Non-Friable	ND
	7-3	Black Sink Mastic	Living Quarters above Office Building	Non-Friable	ND
8	8-1	Black Cove Base & Tan Adhesive	Kitchen of Living Quarters Above Office Area	Non-Friable	ND
	8-2	Black Cove Base & Tan Adhesive	Kitchen of Living Quarters Above Office Area	Non-Friable	ND
	8-3	Black Cove Base & Tan Adhesive	Kitchen of Living Quarters Above Office Area	Non-Friable	ND
9	9-1	Ceramic Tile Mortar	Tub Tile in Bathrooms of Living Quarters above Office Area	Non-Friable	ND
	9-2	Ceramic Tile Mortar	Tub Tile in Bathrooms of Living Quarters above Office Area	Non-Friable	ND
	9-3	Ceramic Tile Mortar	Tub Tile in Bathrooms of Living Quarters above Office Area	Non-Friable	ND
10	10-1	1'x1' Ceiling Tile w/Brown Mastic	Ceilings in Rooms 121 – 140	Non-Friable	ND
	10-2	1'x1' Ceiling Tile w/Brown Mastic	Ceilings in Rooms 121 – 140	Non-Friable	ND
	10-3	1'x1' Ceiling Tile w/Brown Mastic	Ceilings in Rooms 121 – 140	Non-Friable	ND
11	11-1	Window Glazing	Exterior Windows Rooms 121 – 140	Non-Friable	ND
	11-2	Window Glazing	Exterior Windows Rooms 121 – 140	Non-Friable	ND
	11-3	Window Glazing	Exterior Windows Rooms 121 – 140	Non-Friable	ND
12	12-1	Ceramic Tile Mortar & Grout	Bathroom/Shower in Living Quarters 121 – 140	Non-Friable	ND
	12-2	Ceramic Tile Mortar & Grout	Bathroom/Shower in Living Quarters 121 – 140	Non-Friable	ND
	12-3	Ceramic Tile Mortar & Grout	Bathroom/Shower in Living Quarters 121 – 140	Non-Friable	ND

[1] HA – Homogenous Area

[2] Friability was determined according to a material's current condition.
Friable: Materials that can be crumbled, crushed, or pulverized under hand pressure
Non-Friable: Materials that do not meet the definition of friable
Category I Non-Friable: Non-friable ACMs such as gaskets, valve packings, resilient vinyl floor covering (floor tile and linoleum), and asphalt roofing material
Category II Non-Friable: Includes all other non-friable ACMs

[3] ND – None Detected

2510 Crestwood Blvd, Irondale, Alabama					
HA[1]	Sample No.	Description	Sample Location	Friability[2]	% Asbestos and Type
13	13-1	Ceramic Floor Tile Mortar & Grout	Living Area in Living Quarters 121 – 140	Non-Friable	ND[3]
	13-2	Ceramic Floor Tile Mortar & Grout	Living Area in Living Quarters 121 – 140	Non-Friable	ND
	13-3	Ceramic Floor Tile Mortar & Grout	Living Area in Living Quarters 121 – 140	Non-Friable	ND
14	14-1	Black Cove Base & Tan Adhesive	Living Area in Living Quarters 121 – 140	Non-Friable	ND
	14-2	Black Cove Base & Tan Adhesive	Living Area in Living Quarters 121 – 140	Non-Friable	ND
	14-3	Black Cove Base & Tan Adhesive	Living Area in Living Quarters 121 – 140	Non-Friable	ND
15	15-1	Drywall, Joint Compound & Tape	Living Quarters 121 – 140	Non-Friable	ND
	15-2	Drywall, Joint Compound & Tape	Living Quarters 121 – 140	Non-Friable	ND
	15-3	Drywall, Joint Compound & Tape	Living Quarters 121 – 140	Non-Friable	ND
16	16-1	Ceiling Texture	Living Quarters 121 – 140	Non-Friable	ND
	16-2	Ceiling Texture	Living Quarters 121 – 140	Non-Friable	ND
	16-3	Ceiling Texture	Living Quarters 121 – 140	Non-Friable	ND
	16-4	Ceiling Texture	Living Quarters 121 – 140	Non-Friable	ND
	16-5	Ceiling Texture	Living Quarters 121 – 140	Non-Friable	ND
	16-6	Ceiling Texture	Living Quarters 121 – 140	Non-Friable	ND
	16-7	Ceiling Texture	Living Quarters 121 – 140	Non-Friable	ND
17	17-1	Roof Shingle & Felt Paper	Roof of 121 – 128	Non-Friable	ND
	17-2	Roof Shingle & Felt Paper	Roof of 129 – 132	Non-Friable	ND
	17-3	Roof Shingle & Felt Paper	Roof of 133 – 140	Non-Friable	ND

[1] HA – Homogenous Area

[2] Friability was determined according to a material's current condition.
Friable: Materials that can be crumbled, crushed, or pulverized under hand pressure
Non-Friable: Materials that do not meet the definition of friable
Category I Non-Friable: Non-friable ACMs such as gaskets, valve packings, resilient vinyl floor covering (floor tile and linoleum), and asphalt roofing material
Category II Non-Friable: Includes all other non-friable ACMs

[3] ND – None Detected

2510 Crestwood Blvd, Irondale, Alabama					
HA[1]	Sample No.	Description	Sample Location	Friability[2]	% Asbestos and Type
18	18-1	Vinyl Sheet Flooring	Room 149 in Bathroom	Non-Friable	ND[3]
	18-2	Vinyl Sheet Flooring	Room 149 in Bathroom	Non-Friable	ND
	18-3	Vinyl Sheet Flooring	Room 149 in Bathroom	Non-Friable	ND
19	19-1	12'x12'' Floor Tile & Black Mastic	Room 147 in Bathroom	Non-Friable	ND – Floor Tile 3% C[4] – Black Mastic
	19-2	12'x12'' Floor Tile & Black Mastic	Room 147 in Bathroom	Non-Friable	ND – Floor Tile 2% C – Black Mastic
	19-3	12'x12'' Floor Tile & Black Mastic	Room 147 in Bathroom	Non-Friable	ND – Floor Tile 3% C – Black Mastic
20	20-1	Drywall, Joint Compound & Tape	Rooms 164 – 168 & 225 – 229	Non-Friable	ND
	20-2	Drywall, Joint Compound & Tape	Rooms 164 – 168 & 225 – 229	Non-Friable	ND
	20-3	Drywall, Joint Compound & Tape	Rooms 164 – 168 & 225 – 229	Non-Friable	ND
21	21-1	Vinyl Sheet Flooring	Bathroom of 225	Non-Friable	ND
	21-2	Vinyl Sheet Flooring	Bathroom of 225	Non-Friable	ND
	21-3	Vinyl Sheet Flooring	Bathroom of 225	Non-Friable	ND
22	22-1	White Caulk	Between Window Frame & Brick, Rooms 164 – 168 & 225 – 229	Non-Friable	ND
	22-2	White Caulk	Between Window Frame & Brick, Rooms 164 – 168 & 225 – 229	Non-Friable	ND
	22-3	White Caulk	Between Window Frame & Brick, Rooms 164 – 168 & 225 – 229	Non-Friable	ND
23	23-1	Black Cove Base & Tan Adhesive	Rooms 164 – 168 & 225 – 229	Non-Friable	ND
	23-2	Black Cove Base & Tan Adhesive	Rooms 164 – 168 & 225 – 229	Non-Friable	ND
	23-3	Black Cove Base & Tan Adhesive	Rooms 164 – 168 & 225 – 229	Non-Friable	ND

[1] HA – Homogenous Area

[2] Friability was determined according to a material's current condition.
Friable: Materials that can be crumbled, crushed, or pulverized under hand pressure
Non-Friable: Materials that do not meet the definition of friable
Category I Non-Friable: Non-friable ACMs such as gaskets, valve packings, resilient vinyl floor covering (floor tile and linoleum), and asphalt roofing material
Category II Non-Friable: Includes all other non-friable ACMs

[3] ND – None Detected

[4] C – Chrysotile

2510 Crestwood Blvd, Irondale, Alabama					
HA[1]	Sample No.	Description	Sample Location	Friability[2]	% Asbestos and Type
24	24-1	Ceramic Tile Mortar	Bathroom Floor, Rooms 164 – 168 & 225 – 229	Non-Friable	ND
	24-2	Ceramic Tile Mortar	Bathroom Floor, Rooms 164 – 168 & 225 – 229	Non-Friable	ND
	24-3	Ceramic Tile Mortar	Bathroom Floor, Rooms 164 – 168 & 225 – 229	Non-Friable	ND
25	25-1	Ceiling Texture	Rooms 164 – 168 & 225 – 229	Non-Friable	3% C[3] – Ceiling Texture
	25-2	Ceiling Texture	Rooms 164 – 168 & 225 – 229	Non-Friable	3% C – Ceiling Texture
	25-3	Ceiling Texture	Rooms 164 – 168 & 225 – 229	Non-Friable	3% C – Ceiling Texture
	25-4	Ceiling Texture	Rooms 164 – 168 & 225 – 229	Non-Friable	3% C – Ceiling Texture
	25-5	Ceiling Texture	Rooms 164 – 168 & 225 – 229	Non-Friable	3% C – Ceiling Texture
	25-6	Ceiling Texture	Rooms 164 – 168 & 225 – 229	Non-Friable	3% C – Ceiling Texture
	25-7	Ceiling Texture	Rooms 164 – 168 & 225 – 229	Non-Friable	3% C – Ceiling Texture
26	26-1	Black Cove Base & Tan Adhesive	Rooms 101 – 120 & 201 – 220	Non-Friable	ND[4]
	26-2	Black Cove Base & Tan Adhesive	Rooms 101 – 120 & 201 – 220	Non-Friable	ND
	26-3	Black Cove Base & Tan Adhesive	Rooms 101 – 120 & 201 – 220	Non-Friable	ND

[1] HA – Homogenous Area

[2] Friability was determined according to a material's current condition.
Friable: Materials that can be crumbled, crushed, or pulverized under hand pressure
Non-Friable: Materials that do not meet the definition of friable
Category I Non-Friable: Non-friable ACMs such as gaskets, valve packings, resilient vinyl floor covering (floor tile and linoleum), and asphalt roofing material
Category II Non-Friable: Includes all other non-friable ACMs

[3] C – Chrysotile

[4] ND – None Detected

2510 Crestwood Blvd, Irondale, Alabama					
HA[1]	Sample No.	Description	Sample Location	Friability[2]	% Asbestos and Type
27	27-1	Drywall, Joint Compound & Tape	Rooms 101 – 120 & 201 – 220	Non-Friable	3% C[3] – Ceiling Texture ND[4] – Tape ND – Joint Compound ND – Drywall
	27-2	Drywall, Joint Compound & Tape	Rooms 101 – 120 & 201 – 220	Non-Friable	3% C – Ceiling Texture ND – Tape ND – Joint Compound ND – Drywall
	27-3	Drywall, Joint Compound & Tape	Rooms 101 – 120 & 201 – 220	Non-Friable	3% C – Ceiling Texture ND – Tape ND – Joint Compound ND – Drywall
28	28-1	Ceramic Floor Tile Mortar & Grout	Bathrooms, Rooms 101 – 120 & 201 – 220	Non-Friable	ND
	28-2	Ceramic Floor Tile Mortar & Grout	Bathrooms, Rooms 101 – 120 & 201 – 220	Non-Friable	ND
	28-3	Ceramic Floor Tile Mortar & Grout	Bathrooms, Rooms 101 – 120 & 201 – 220	Non-Friable	ND
29	29-1	Ceiling Texture	Rooms 101 – 120 & 201 – 220	Non-Friable	2% C – Ceiling Texture
	29-2	Ceiling Texture	Rooms 101 – 120 & 201 – 220	Non-Friable	2% C – Ceiling Texture
	29-3	Ceiling Texture	Rooms 101 – 120 & 201 – 220	Non-Friable	2% C – Ceiling Texture
	29-4	Ceiling Texture	Rooms 101 – 120 & 201 – 220	Non-Friable	2% C – Ceiling Texture
	29-5	Ceiling Texture	Rooms 101 – 120 & 201 – 220	Non-Friable	2% C – Ceiling Texture
	29-6	Ceiling Texture	Rooms 101 – 120 & 201 – 220	Non-Friable	2% C – Ceiling Texture
	29-7	Ceiling Texture	Rooms 101 – 120 & 201 – 220	Non-Friable	2% C – Ceiling Texture

[1] HA – Homogenous Area

[2] Friability was determined according to a material's current condition.
Friable: Materials that can be crumbled, crushed, or pulverized under hand pressure
Non-Friable: Materials that do not meet the definition of friable
Category I Non-Friable: Non-friable ACMs such as gaskets, valve packings, resilient vinyl floor covering (floor tile and linoleum), and asphalt roofing material
Category II Non-Friable: Includes all other non-friable ACMs

[3] C – Chrysotile

[4] ND – None Detected

2510 Crestwood Blvd, Irondale, Alabama					
HA[1]	Sample No.	Description	Sample Location	Friability[2]	% Asbestos and Type
30	30-1	Drywall, Joint Compound & Tape	Rooms 151 – 160 & 251 – 260	Non-Friable	2% C[3] – Joint Compound ND[4] – Tape 2% C – Joint Compound ND – Drywall
	30-2	Drywall, Joint Compound & Tape	Rooms 151 – 160 & 251 – 260	Non-Friable	2% C – Joint Compound ND – Tape 2% C – Joint Compound ND – Drywall
	30-3	Drywall, Joint Compound & Tape	Rooms 151 – 160 & 251 – 260	Non-Friable	2% C – Joint Compound ND – Tape 2% C – Joint Compound ND – Drywall
31	31-1	Black Cove Base & Brown Adhesive	Rooms 151 – 160 & 251 – 260	Non-Friable	ND
	31-2	Black Cove Base & Brown Adhesive	Rooms 151 – 160 & 251 – 260	Non-Friable	ND
	31-3	Black Cove Base & Brown Adhesive	Rooms 151 – 160 & 251 – 260	Non-Friable	ND
32	32-1	Ceramic Floor Tile Mortar & Grout	Rooms 151 – 160 & 251 – 260	Non-Friable	ND
	32-2	Ceramic Floor Tile Mortar & Grout	Rooms 151 – 160 & 251 – 260	Non-Friable	ND
	32-3	Ceramic Floor Tile Mortar & Grout	Rooms 151 – 160 & 251 – 260	Non-Friable	ND
33	33-1	Vinyl Sheet Flooring	Kitchen Area, Rooms 151 – 160 & 251 – 260	Non-Friable	ND – Vinyl Sheeting Flooring 2% C – Mastic
	33-2	Vinyl Sheet Flooring	Kitchen Area, Rooms 151 – 160 & 251 – 260	Non-Friable	ND – Vinyl Sheeting Flooring 3% C – Mastic
	33-3	Vinyl Sheet Flooring	Kitchen Area, Rooms 151 – 160 & 251 – 260	Non-Friable	ND – Vinyl Sheeting Flooring 2% C – Mastic

[1] HA – Homogenous Area

[2] Friability was determined according to a material's current condition.
Friable: Materials that can be crumbled, crushed, or pulverized under hand pressure
Non-Friable: Materials that do not meet the definition of friable
Category I Non-Friable: Non-friable ACMs such as gaskets, valve packings, resilient vinyl floor covering (floor tile and linoleum), and asphalt roofing material
Category II Non-Friable: Includes all other non-friable ACMs

[3] C – Chrysotile

[4] ND – None Detected

2510 Crestwood Blvd, Irondale, Alabama					
HA[1]	Sample No.	Description	Sample Location	Friability[2]	% Asbestos and Type
34	34-1	Ceiling Texture	Rooms 151 – 160 & 251 – 260	Non-Friable	2% C[3] – Ceiling Texture
	34-2	Ceiling Texture	Rooms 151 – 160 & 251 – 260	Non-Friable	3% C – Ceiling Texture
	34-3	Ceiling Texture	Rooms 151 – 160 & 251 – 260	Non-Friable	2% C – Ceiling Texture
	34-4	Ceiling Texture	Rooms 151 – 160 & 251 – 260	Non-Friable	3% C – Ceiling Texture
	34-5	Ceiling Texture	Rooms 151 – 160 & 251 – 260	Non-Friable	3% C – Ceiling Texture
	34-6	Ceiling Texture	Rooms 151 – 160 & 251 – 260	Non-Friable	2% C – Ceiling Texture
	34-7	Ceiling Texture	Rooms 151 – 160 & 251 – 260	Non-Friable	3% C – Ceiling Texture
35	35-1	Asphalt Roofing & Felt Paper	Roof of Pool Building	Non-Friable	ND[4]
	35-2	Asphalt Roofing & Felt Paper	Roof of Pool Building	Non-Friable	ND
	35-3	Asphalt Roofing & Felt Paper	Roof of Pool Building	Non-Friable	ND

[1] HA – Homogenous Area

[2] Friability was determined according to a material's current condition.
Friable: Materials that can be crumbled, crushed, or pulverized under hand pressure
Non-Friable: Materials that do not meet the definition of friable
Category I Non-Friable: Non-friable ACMs such as gaskets, valve packings, resilient vinyl floor covering (floor tile and linoleum), and asphalt roofing material
Category II Non-Friable: Includes all other non-friable ACMs

[3] C – Chrysotile

[4] ND – None Detected

APPENDIX C
IDENTIFIED ASBESTOS SAMPLE SUMMARY

2510 Crestwood Blvd, Irondale, Alabama						
HA	**Description**	**Material Location**	**Percent/Type Asbestos**	**NESHAP Classification**	**Condition**	**Estimated Quantity[1]**
2	Gray Caulking	Exterior Around Window Frames & Brick of Office Building	12% C – Gray Caulking	Non-friable Category II ACM	Good	50 sf
5	Ceiling Texture	Interior on Ceilings in Office Building	2% C – Ceiling Texture	RACM	Good	2,500 sf
6	Drywall, Joint Compound & Tape	Above 1'x1'' Ceiling Tile & Ceilings Throughout Office Building	3% C – Ceiling Texture ND[4] – Tape 3% C – Joint Compound ND – Tape 2-3% C – Joint Compound ND – Drywall	Non-friable Category II ACM	Good	1,500 sf
19	12'x12'' Floor Tile & Black Mastic	Room 147 in Bathroom	ND – Floor Tile 2-3% C – Black Mastic	Non-friable Category I ACM	Good	50 sf
25	Ceiling Texture	Rooms 164 – 168 & 225 – 229	3% C – Ceiling Texture	RACM	Good	3,000 sf
27	Drywall, Joint Compound & Tape	Rooms 101 – 120 & 201 – 220	3% C – Ceiling Texture ND – Tape ND – Joint Compound ND – Drywall	Non-friable Category II ACM	Good	40,000 sf
29	Ceiling Texture	Rooms 101 – 120 & 201 – 220	2% C – Ceiling Texture	RACM	Good	12,000 sf
30	Drywall, Joint Compound & Tape	Rooms 151 – 160 & 251 – 260	2% C – Joint Compound ND – Tape 2% C – Joint Compound ND – Drywall	Non-friable Category II ACM	Good	45,000 sf
33	Vinyl Sheet Flooring	Kitchen Area, Rooms 151 – 160 & 251 – 260	ND – Vinyl Sheeting Flooring 2-3% C – Mastic	Non-friable Category II ACM	Good	1,200 sf
34	Ceiling Texture	Rooms 151 – 160 & 251 – 260	2-3% C – Ceiling Texture	RACM	Good	6,000 sf

HA = Homogenous area

C = Chrysotile asbestos

ft^2 = square feet

[1] Quantities are estimates and should be verified by the asbestos abatement contractor. Estimated quantities of asbestos-containing joint compound include non-asbestos containing drywall

[2] C – Chrysotile

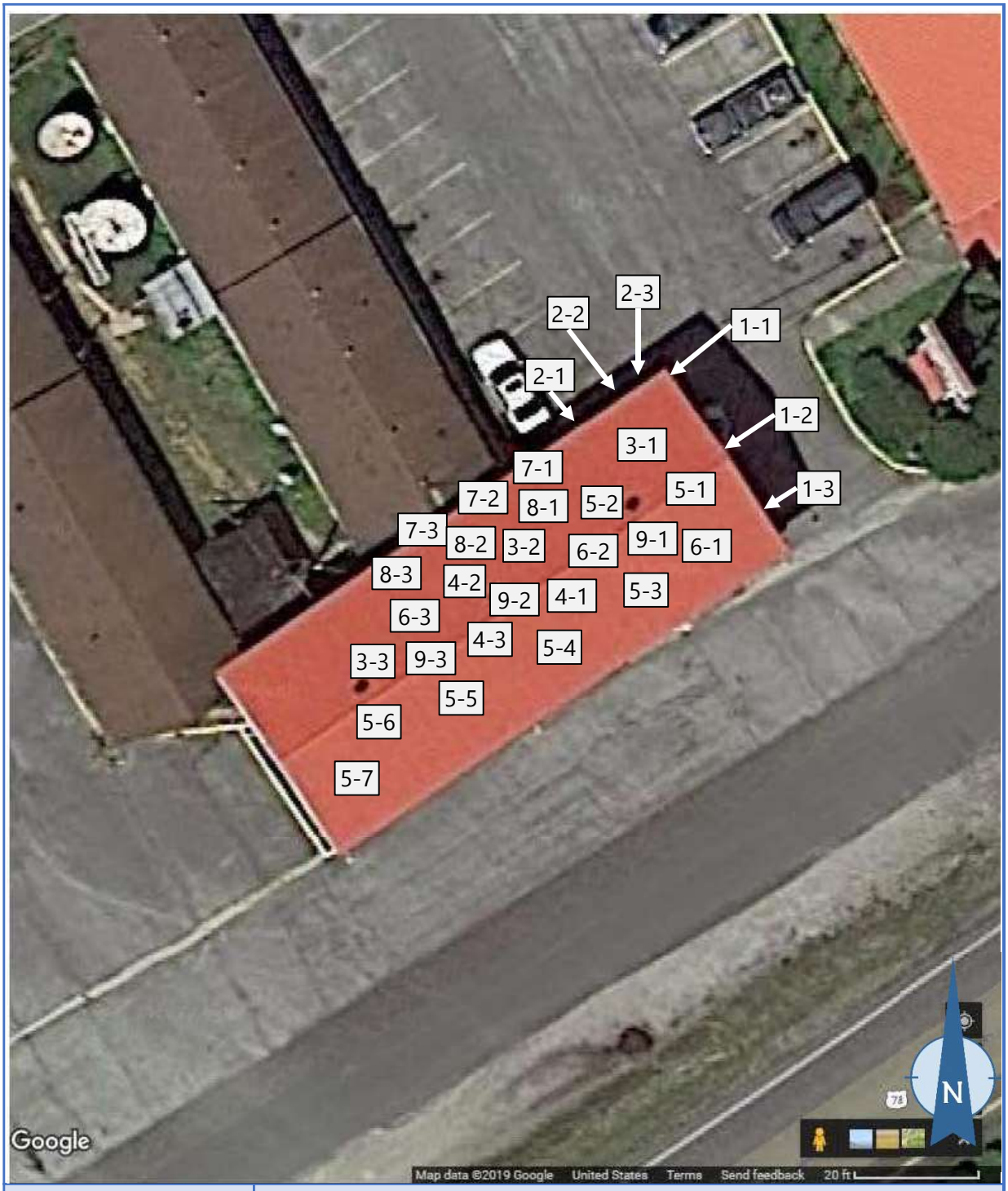
Friable regulated asbestos-containing material (RACM) material is defined by the EPA as a material which can be crumbled, pulverized or reduced to powder by hand pressure when dry.

Category I non-friable ACM consists of asbestos-containing gaskets, resilient floor coverings, and asphalt roofing products that contain greater than one percent asbestos.

Category II non-friable ACM are any materials other than Category I materials that contain more than 1% asbestos.

APPENDIX D
SAMPLE LOCATION DIAGRAMS

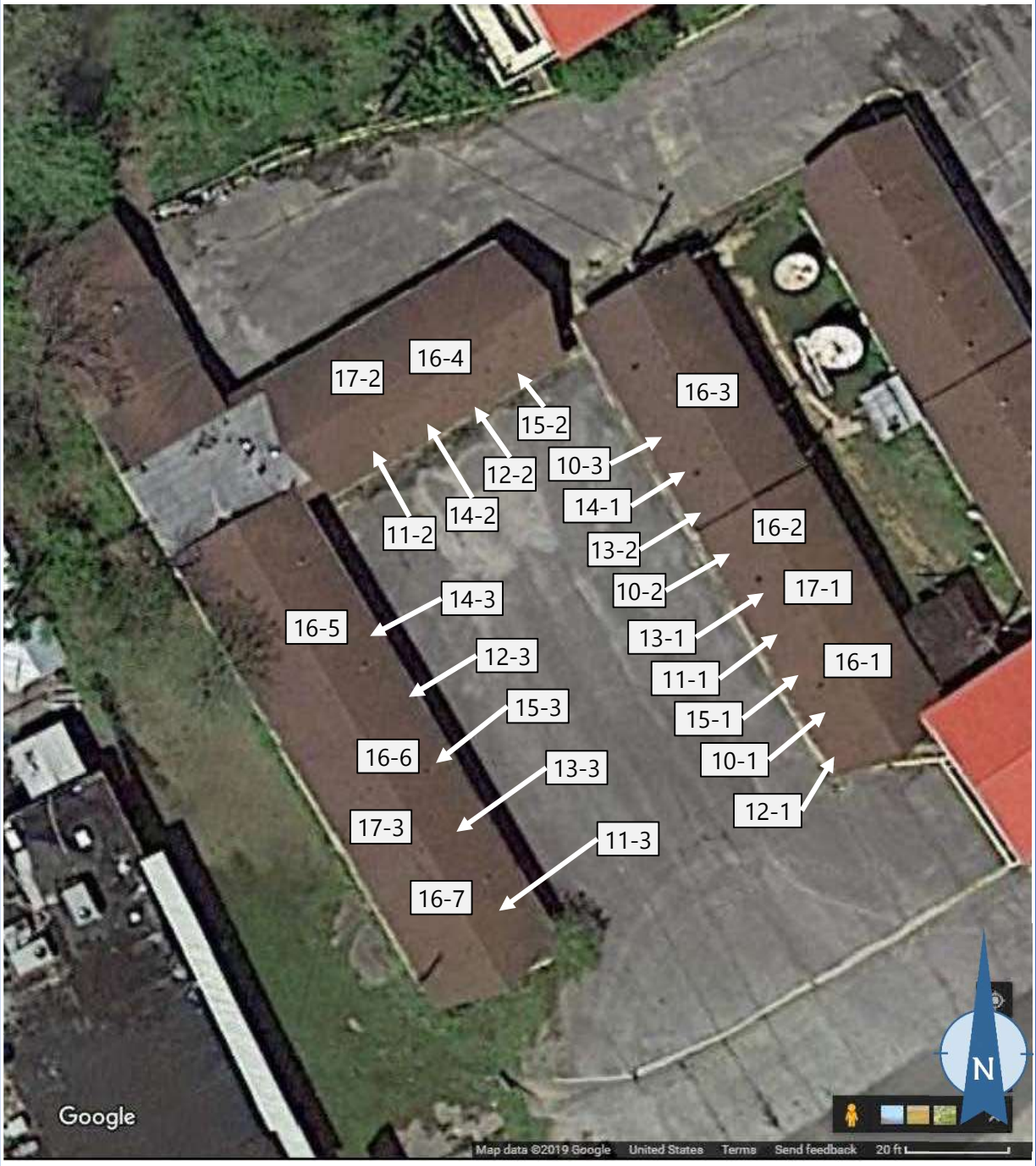
BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers



PROJECT NAME	OFFICE BUILDING, 2510 CRESTWOOD BLVD, IRONDALE, ALABAMA		
PROJECT NO.	BH190118	**SCALE**	AS SHOWN

SITE RECONNAISSANCE PHOTO LEGEND

BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers



PROJECT NAME	ROOMS 121-140, 2510 CRESTWOOD BLVD, IRONDALE, ALABAMA		
PROJECT NO.	BH190118	**SCALE**	AS SHOWN

SITE RECONNAISSANCE PHOTO LEGEND

BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers

PROJECT NAME	ROOMS 142-149, 2510 CRESTWOOD BLVD, IRONDALE, ALABAMA		
PROJECT NO.	BH190118	**SCALE**	AS SHOWN

SITE RECONNAISSANCE PHOTO LEGEND

BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers

PROJECT NAME	ROOMS 164-168 & 225-229, 2510 CRESTWOOD BLVD, IRONDALE, ALABAMA		
PROJECT NO.	BH190118	**SCALE**	AS SHOWN

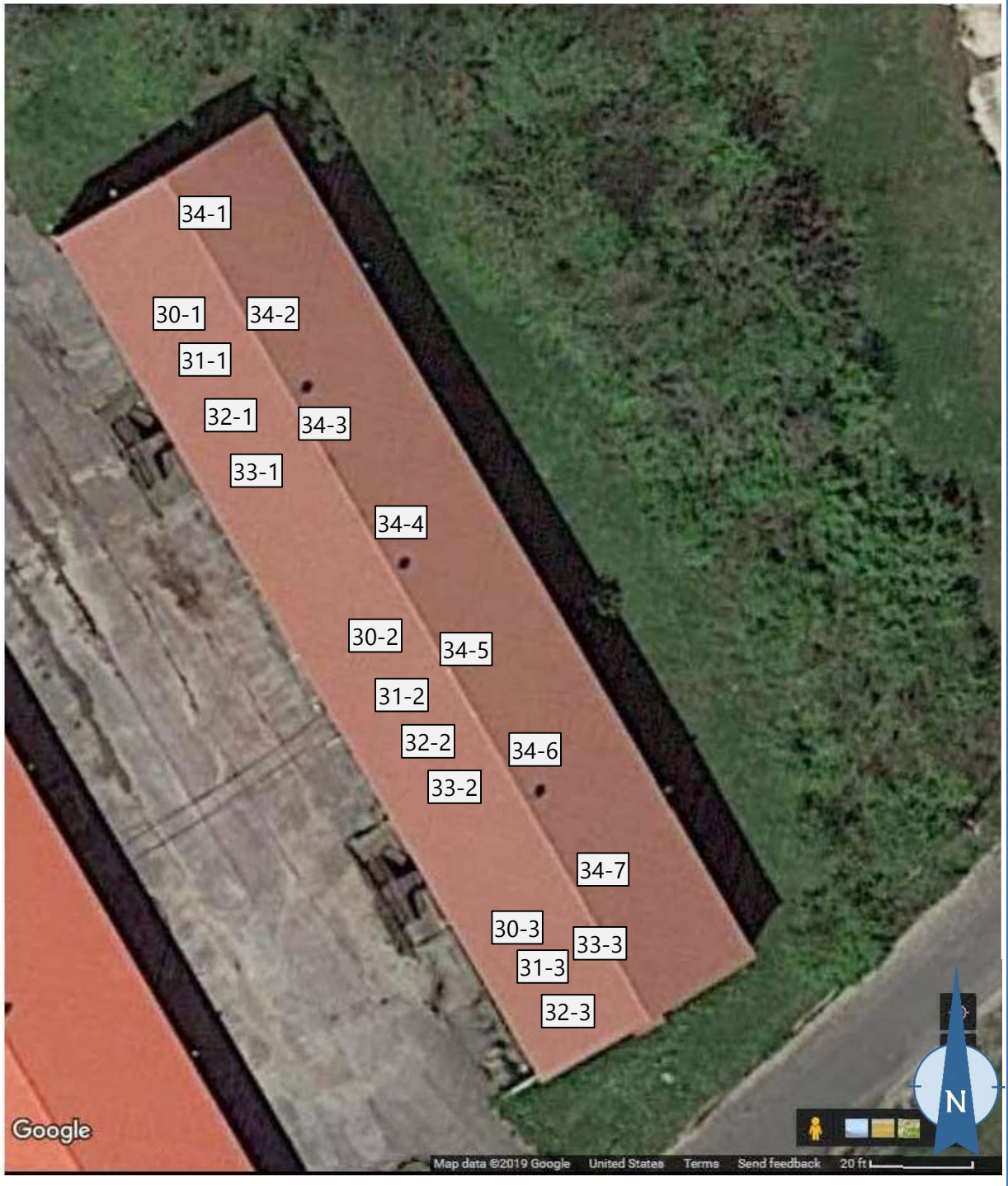
SITE RECONNAISSANCE PHOTO LEGEND

BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers

PROJECT NAME	ROOMS 101-120 & 201-220, 2510 CRESTWOOD BLVD, IRONDALE, ALABAMA		
PROJECT NO.	BH190118	**SCALE**	AS SHOWN

SITE RECONNAISSANCE PHOTO LEGEND

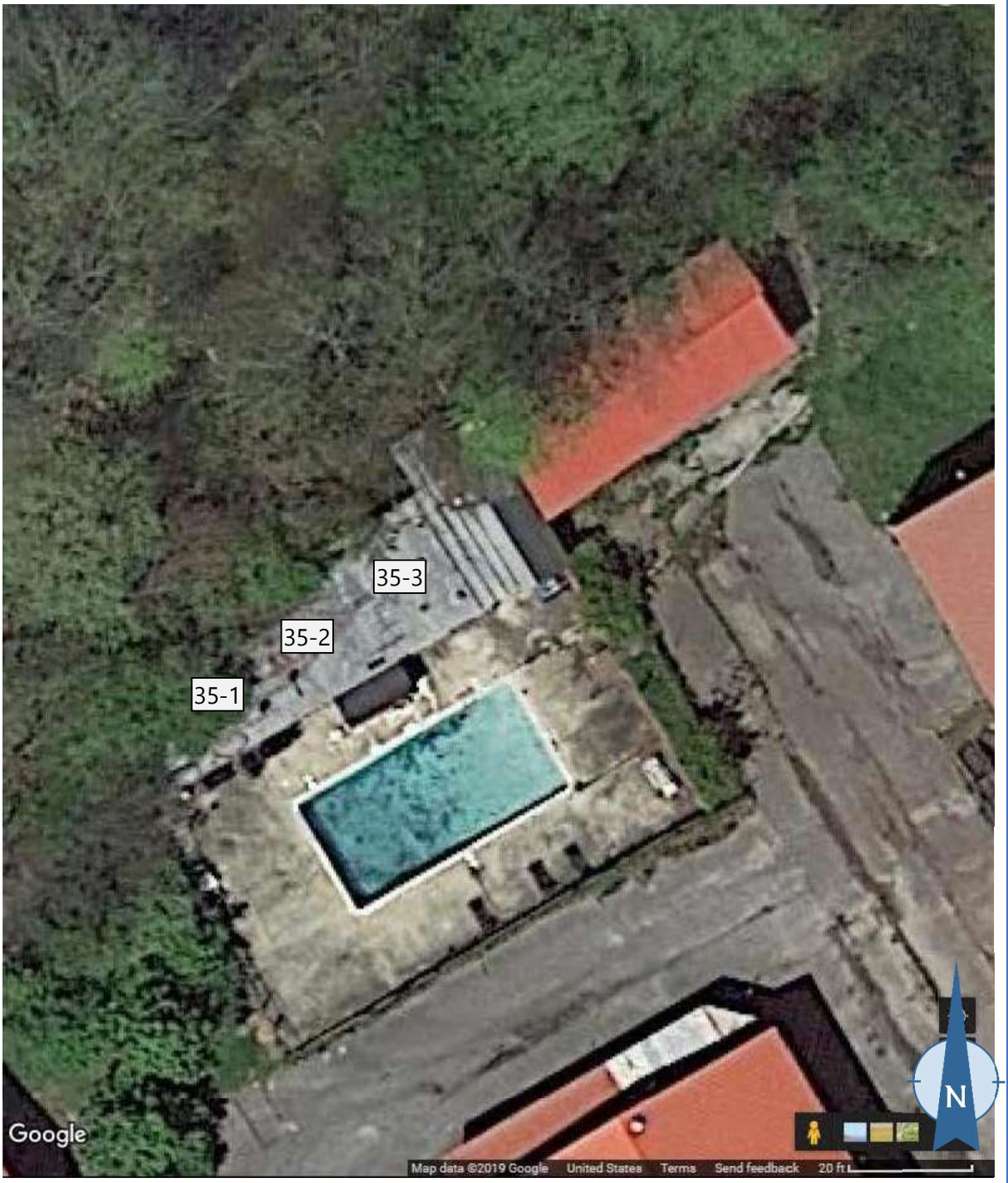
BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers



PROJECT NAME	ROOMS 151-160 & 251-260, 2510 CRESTWOOD BLVD, IRONDALE, ALABAMA		
PROJECT NO.	BH190118	**SCALE**	AS SHOWN

SITE RECONNAISSANCE PHOTO LEGEND

BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers

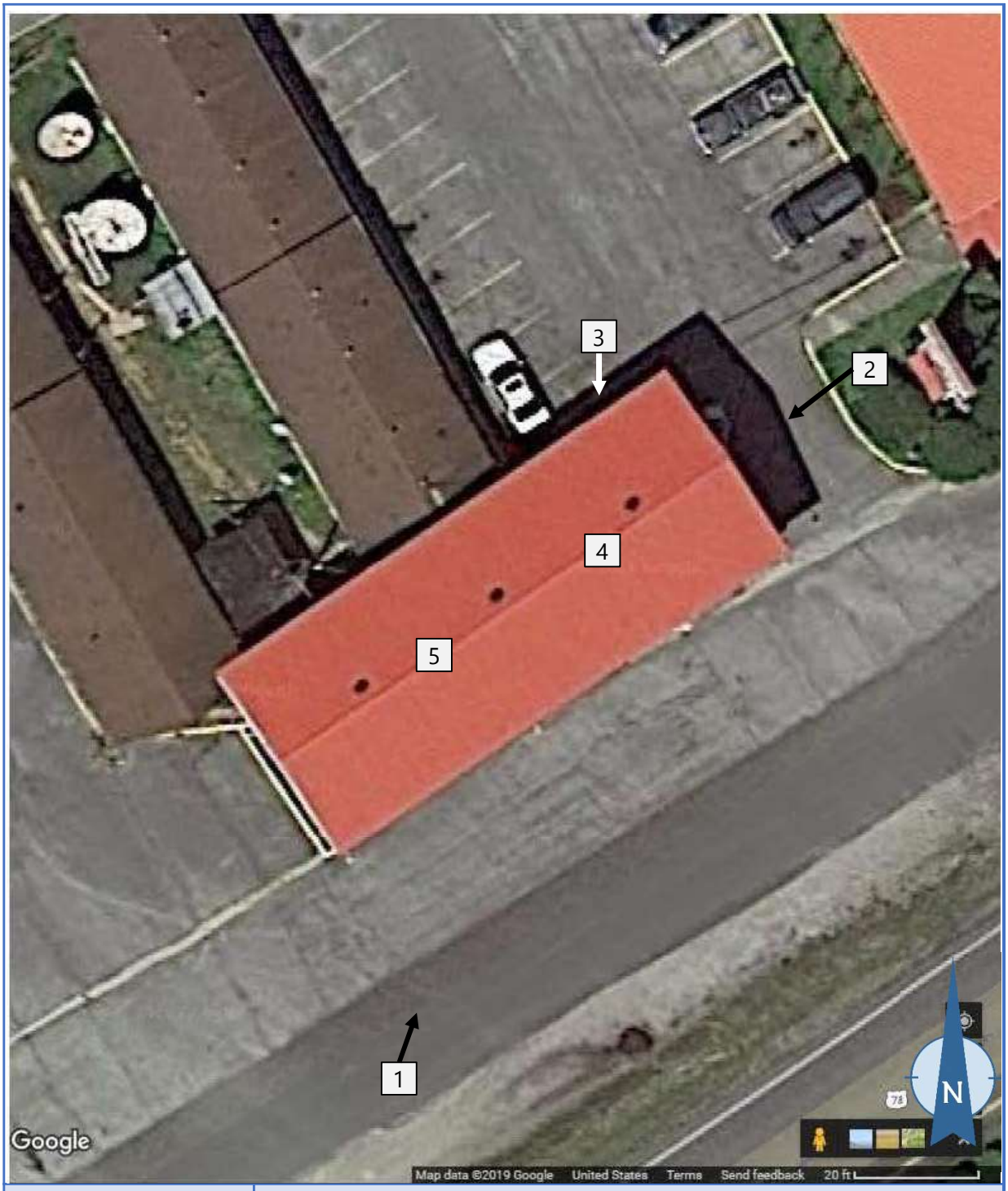


PROJECT NAME	POOL AND STORAGE BUILDINGS, 2510 CRESTWOOD BLVD, IRONDALE, ALABAMA		
PROJECT NO.	BH190118	**SCALE**	AS SHOWN

SITE RECONNAISSANCE PHOTO LEGEND

APPENDIX E
PHOTOGRAPHS

BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers



PROJECT NAME	OFFICE BUILDING, 2510 CRESTWOOD BLVD, IRONDALE, ALABAMA		
PROJECT NO.	BH190118	**SCALE**	AS SHOWN

SITE RECONNAISSANCE PHOTO LEGEND

Photo #1
View of front of Office Building

Photo #2
View of side of Office Building

Photo #3
View of **asbestos-containing** gray caulk on metal windows & brick on exterior windows of office building

Photo #4
View of **asbestos-containing** texture and joint compound on non-asbestos drywall above non-asbestos 1'x1' ceiling tile

Photo #5
View of **asbestos-containing** ceiling texture in office building

BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers

PROJECT NAME	ROOMS 121-140, 2510 CRESTWOOD BLVD, IRONDALE, ALABAMA		
PROJECT NO.	BH190118	**SCALE**	AS SHOWN

SITE RECONNAISSANCE PHOTO LEGEND

Photo #1
View of 121-128 building

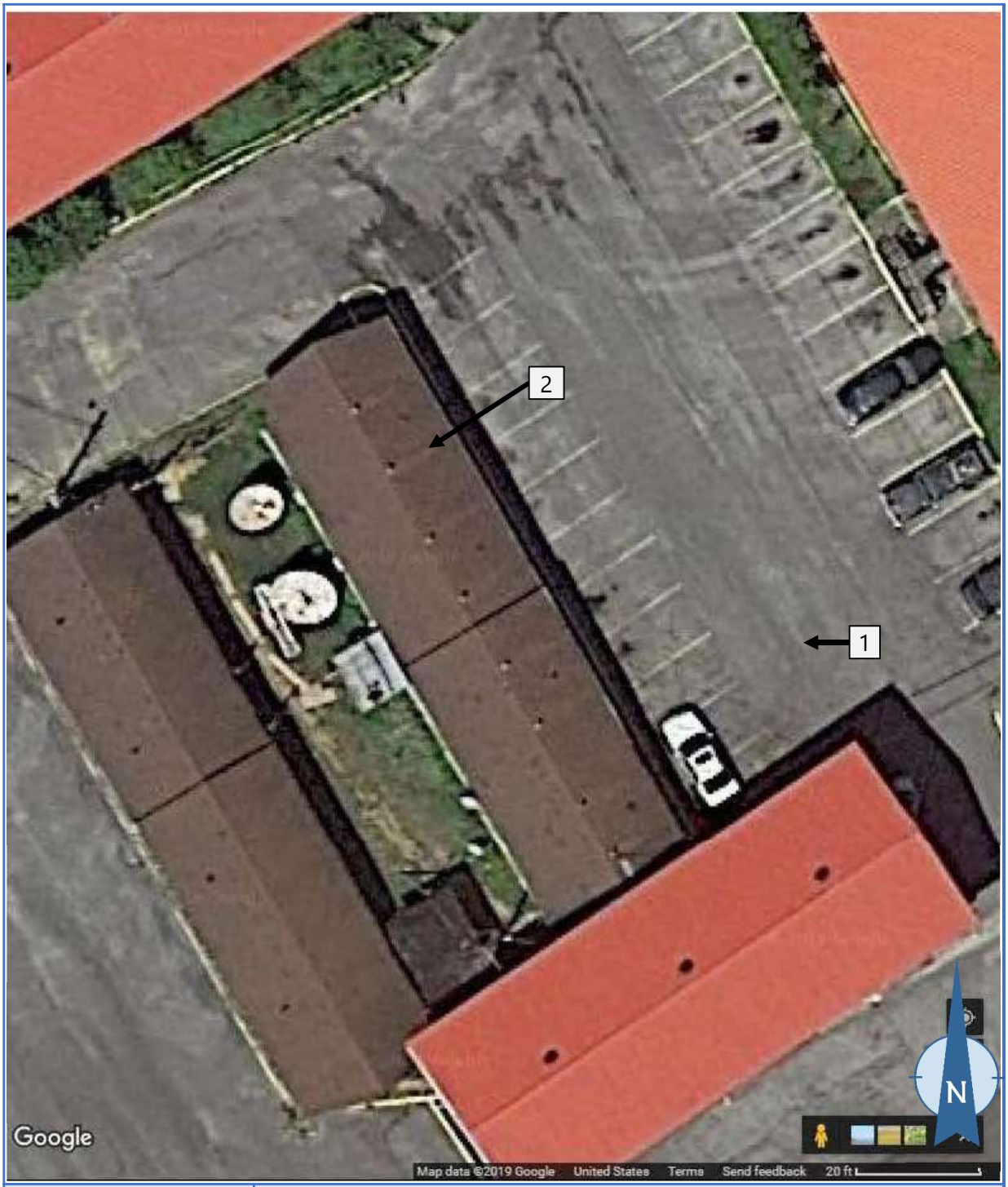
Photo #2
View of 129-132 building

Photo #3
View of 133-140 building

Photo #4
View of typical room in rooms 121-140

Photo #5
View of typical bathroom in rooms 121-140

BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers



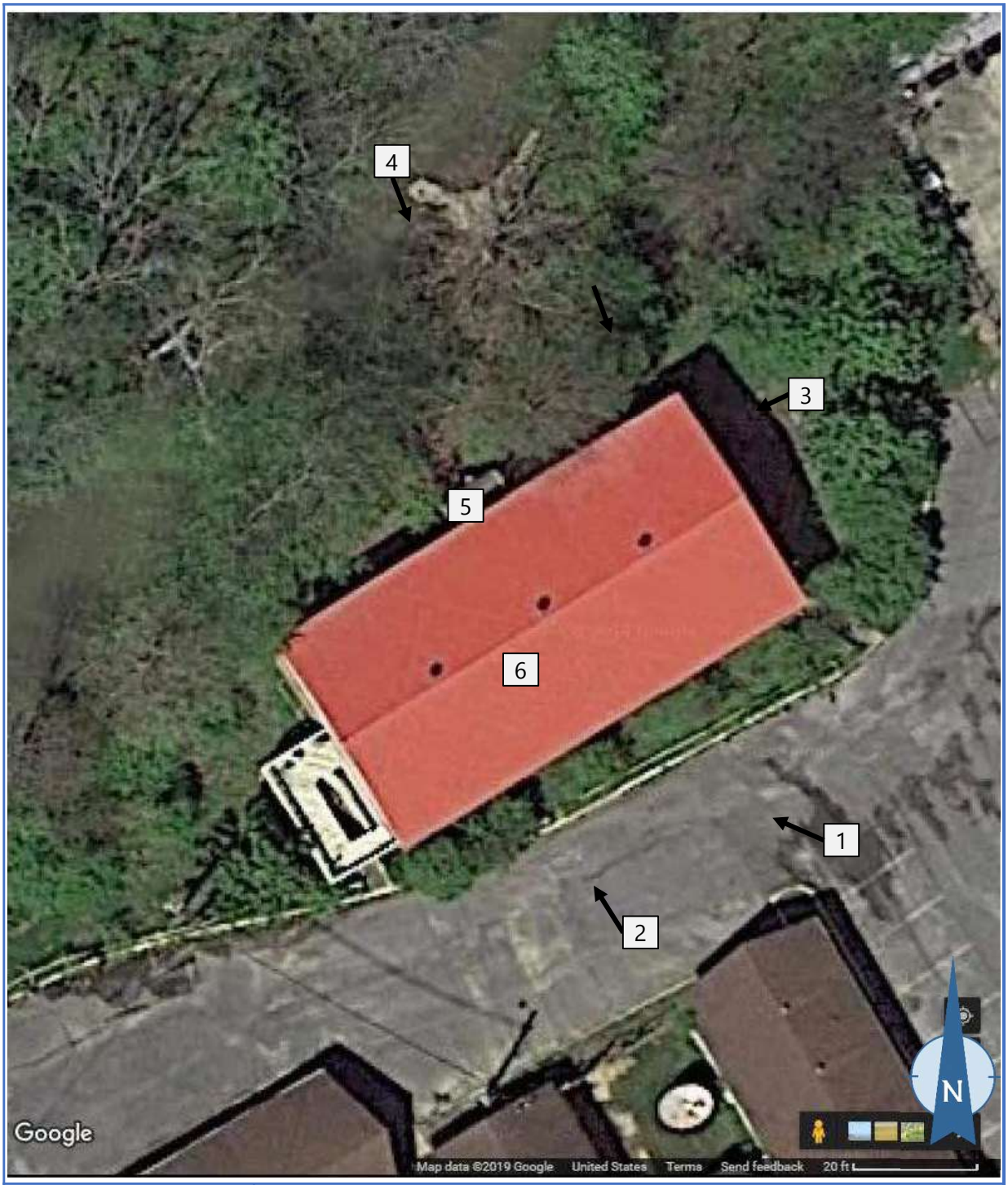
PROJECT NAME	ROOMS 143-149, 2510 CRESTWOOD BLVD, IRONDALE, ALABAMA		
PROJECT NO.	BH190118	**SCALE**	AS SHOWN

SITE RECONNAISSANCE PHOTO LEGEND

Photo #1
View of rooms 143-149

Photo #2
View of **asbestos-containing** black mastic on non-asbestos 12''x12'' vinyl floor tile

BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers



PROJECT NAME	ROOMS 164-168 & 225-229, 2510 CRESTWOOD BLVD, IRONDALE, ALABAMA		
PROJECT NO.	BH190118	**SCALE**	AS SHOWN

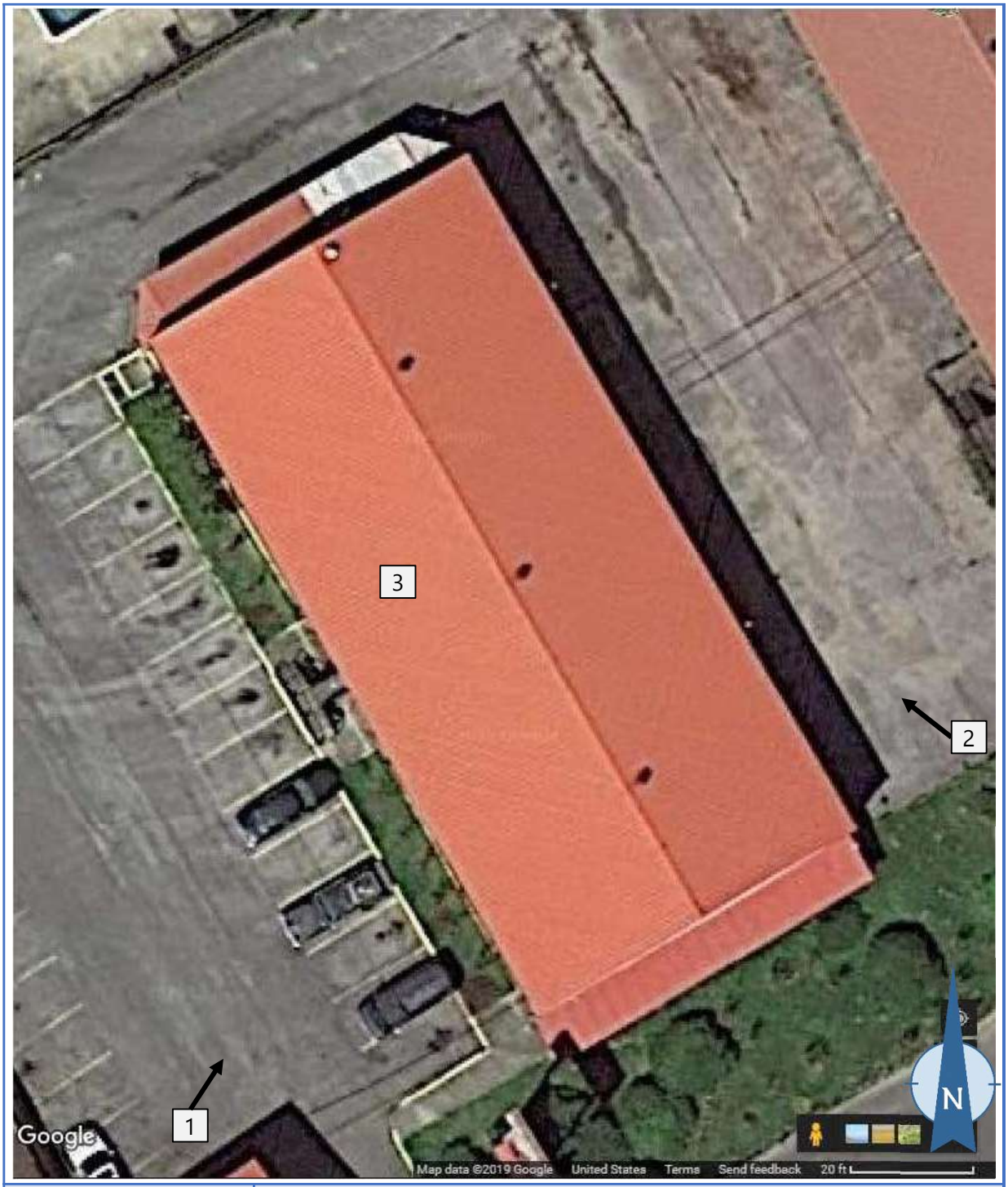
SITE RECONNAISSANCE PHOTO LEGEND

Photo #1
View of front of 2505 House

Photo #2
View of **asbestos-containing** ceiling texture in rooms 164-168 & 225-229

BUILDING & EARTH

Geotechnical, Environmental, and Materials Engineers



PROJECT NAME	ROOMS 101-120 & 201-220, 2510 CRESTWOOD BLVD, IRONDALE, ALABAMA		
PROJECT NO.	BH190118	**SCALE**	AS SHOWN

SITE RECONNAISSANCE PHOTO LEGEND

Photo #1
View of front of 2535 House

Photo #2
View of side of 2535 House

Photo #3
View of **asbestos-containing** ceiling texture in rooms 101-120 & 201-220

BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers

PROJECT NAME	ROOMS 151-160 & 251-260, 2510 CRESTWOOD BLVD, IRONDALE, ALABAMA		
PROJECT NO.	BH190118	**SCALE**	AS SHOWN

SITE RECONNAISSANCE PHOTO LEGEND

Photo 1
View of rooms 151-160 & 251-260

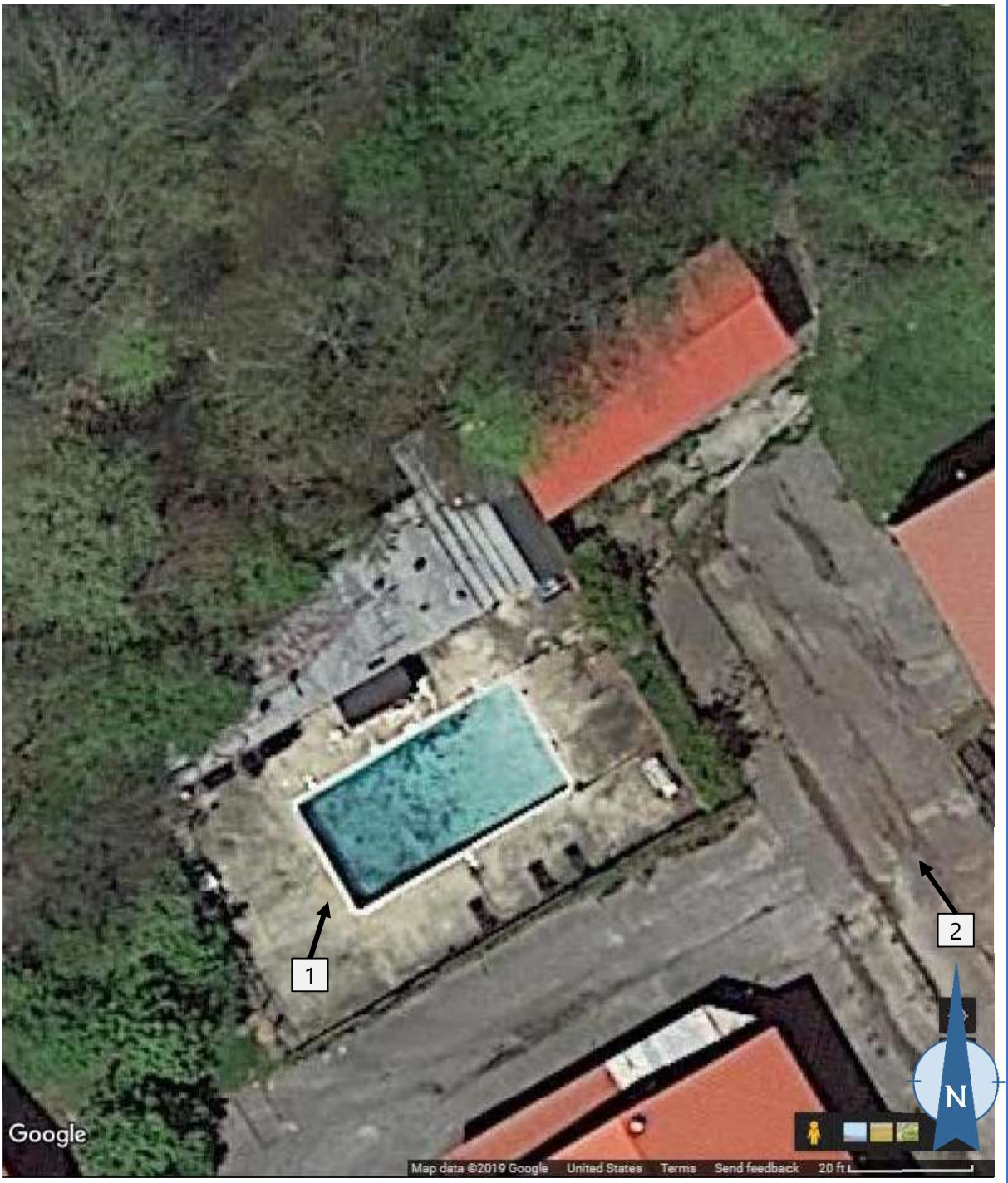
Photo 2
View of rooms 151-160 & 251-260

Photo 3
View of **asbestos-containing** joint compound on non-asbestos drywall in rooms 151-160 & 251-260

Photo 4
View of **asbestos-containing** brown/black mastic on non-asbestos vinyl sheet flooring in rooms 151-160 & 251-260

Photo 5
View of **asbestos-containing** ceiling texture in rooms 151-160 & 251-260

BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers



PROJECT NAME	POOL AND STORAGE BUILDINGS, 2510 CRESTWOOD BLVD, IRONDALE, ALABAMA		
PROJECT NO.	BH190118	**SCALE**	AS SHOWN

SITE RECONNAISSANCE PHOTO LEGEND

Photo 1
View of Pool Building and Storage Building

Photo 2
View of Storage Building at the north end of rooms 151-160 & 251-260

APPENDIX F
LABORATORY REPORT AND CHAIN OF CUSTODY

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
1-1	1-1	N/A	1	White Ceiling Texture – Exterior under Office Building Awning Ceiling Texture – White, Brittle	Y	None Detected	5% Cellulose Fibers	95%
1-2	1-2	N/A	1	White Ceiling Texture – Exterior under Office Building Awning Ceiling Texture – White, Brittle	Y	None Detected	None Detected	100%
1-3	1-3	N/A	1	White Ceiling Texture – Exterior under Office Building Awning Ceiling Texture – White, Brittle	Y	None Detected	5% Cellulose Fibers	95%
2-1	2-1	N/A	1	Gray Caulking – Exterior around Window Frames & Brick (Office Building) Caulk – Gray, Rubbery, Fibrous	Y	12% Chrysotile	None Detected	88%
2-2	2-2	N/A	1	Gray Caulking – Exterior around Window Frames & Brick (Office Building) Caulk – Gray, Rubbery, Fibrous	Y	12% Chrysotile	None Detected	88%
2-3	2-3	N/A	1	Gray Caulking – Exterior around Window Frames & Brick (Office Building) Caulk – Gray, Rubbery, Fibrous	Y	12% Chrysotile	3% Fiberglass	85%
3-1	3-1	N/A		Ceramic Tile Mortar & Grout – Floors in Office Building, Mortar – White, Grout – Dark Gray				
			1	Mortar – White, Granular	Y	None Detected	None Detected	100%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Carol Findlay

Technical Review
Carol Findlay – Microscopy Manager

Carol Findlay

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.
989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066
NVLAP LAB CODE: 200873-0

Asbestos Bulk Sample Analysis Report

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
			2	Grout – Dark Gray, Granular	Y	None Detected	None Detected	100%
3-2	3-2	N/A		Ceramic Tile Mortar & Grout – Floors in Office Building, Mortar – White, Grout – Dark Gray				
			1	Mortar – White, Granular	Y	None Detected	None Detected	100%
			2	Grout – Dark Gray, Granular	Y	None Detected	None Detected	100%
3-3	3-3	N/A		Ceramic Tile Mortar & Grout – Floors in Office Building, Mortar – White, Grout – Dark Gray				
			1	Mortar – White, Granular	Y	None Detected	None Detected	100%
			2	Grout – Dark Gray, Granular	Y	None Detected	None Detected	100%
4-1	4-1	N/A		1'x1' Ceiling Tile w/Brown Adhesive – Ceiling in Office Building				
			1	Paint/Coating – Dark Brown/Off-white, Brittle	N	None Detected	None Detected	100%
			2	Ceiling Tile – White/Brown, Fibrous	N	None Detected	90% Cellulose Fibers	10%
			3	Mastic – Brown, Brittle	Y	None Detected	None Detected	100%
4-2	4-2	N/A		1'x1' Ceiling Tile w/Brown Adhesive – Ceiling in Office Building				
			1	Paint/Coating – Dark Brown/Off-white, Brittle	N	None Detected	None Detected	100%
			2	Ceiling Tile – White/Brown, Fibrous	N	None Detected	90% Cellulose Fibers	10%

Template-QMS-012 ver. 1.3



Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
			3	Mastic – Brown, Organically Bound	Y	None Detected	None Detected	100%
4-3	4-3	N/A		1'x1' Ceiling Tile w/Brown Adhesive – Ceiling in Office Building				
			1	Paint/Coating – Dark Brown/Off-white, Brittle	N	None Detected	None Detected	100%
			2	Ceiling Tile – White/Brown, Fibrous	N	None Detected	90% Cellulose Fibers	10%
			3	Mastic – Brown, Organically Bound	Y	None Detected	None Detected	100%
5-1	5-1	N/A	1	Ceiling Texture – Interior on Ceilings in Office Building Ceiling Texture – Off-white, Brittle	Y	2% Chrysotile	None Detected	98%
5-2	5-2	N/A	1	Ceiling Texture – Interior on Ceilings in Office Building Ceiling Texture – Off-white, Brittle	Y	2% Chrysotile	None Detected	98%
5-3	5-3	N/A	1	Ceiling Texture – Interior on Ceilings in Office Building Ceiling Texture – Off-white, Brittle	Y	2% Chrysotile	None Detected	98%
5-4	5-4	N/A	1	Ceiling Texture – Interior on Ceilings in Office Building Ceiling Texture – Off-white, Brittle	Y	2% Chrysotile	None Detected	98%
5-5	5-5	N/A	1	Ceiling Texture – Interior on Ceilings in Office Building Ceiling Texture – Off-white, Brittle	Y	2% Chrysotile	None Detected	98%

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
5-6	5-6	N/A	1	Ceiling Texture – Interior on Ceilings in Office Building Ceiling Texture – Off-white, Brittle	Y	2% Chrysotile	None Detected	98%
5-7	5-7	N/A	1	Ceiling Texture – Interior on Ceilings in Office Building Ceiling Texture – Off-white, Brittle	Y	2% Chrysotile	None Detected	98%
6-1	6-1	N/A		Drywall, Joint Compound & Tape – Above 1'x1' Ceiling Tile & Ceilings throughout Office Building				
			1	Ceiling Texture – Off-white, Brittle	Y	3% Chrysotile	None Detected	97%
			2	Tape – Tan, Fibrous	Y	None Detected	90% Cellulose Fibers	10%
			3	Joint Compound – Off-white, Soft	Y	3% Chrysotile	None Detected	97%
			4	Tape – Tan, Fibrous	Y	None Detected	90% Cellulose Fibers	10%
			5	Joint Compound – Off-white, Soft	Y	2% Chrysotile	None Detected	98%
			6	Drywall – White/Brown, Soft, Fibrous	N	None Detected	20% Cellulose Fibers	80%
6-2	6-2	N/A		Drywall, Joint Compound & Tape – Above 1'x1' Ceiling Tile & Ceilings throughout Office Building				
			1	Ceiling Texture – Off-white, Brittle	Y	2% Chrysotile	None Detected	98%
			2	Tape – Tan, Fibrous	Y	None Detected	90% Cellulose Fibers	10%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
			3	Joint Compound – Off-white, Soft	Y	3% Chrysotile	None Detected	97%
			4	Drywall – White/Brown, Soft, Fibrous	N	None Detected	20% Cellulose Fibers	80%
6-3	6-3	N/A		Drywall, Joint Compound & Tape – Above 1'x1' Ceiling Tile & Ceilings throughout Office Building				
			1	Ceiling Texture – Off-white, Brittle	Y	3% Chrysotile	None Detected	97%
			2	Tape – Tan, Fibrous	Y	None Detected	90% Cellulose Fibers	10%
			3	Joint Compound – Off-white, Soft	Y	3% Chrysotile	None Detected	97%
			4	Tape – Tan, Fibrous	Y	None Detected	90% Cellulose Fibers	10%
			5	Joint Compound – Off-white, Soft	Y	3% Chrysotile	None Detected	97%
			6	Drywall – White/Brown, Soft, Fibrous	N	None Detected	20% Cellulose Fibers	80%
7-1	7-1	N/A	1	Black Sink Mastic – Living Quarters above Office Area Mastic – Black, Organically Bound	Y	None Detected	7% Polyethylene	93%
7-2	7-2	N/A	1	Black Sink Mastic – Living Quarters above Office Area Mastic – Black, Organically Bound	Y	None Detected	7% Polyethylene	93%
7-3	7-3	N/A	1	Black Sink Mastic – Living Quarters above Office Area Mastic – Black, Organically Bound	Y	None Detected	5% Polyethylene	95%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.
SELC
989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066
NVLAP LAB CODE: 200873-0

Asbestos Bulk Sample Analysis Report

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
8-1	8-1	N/A		Black Cove Base & Tan Adhesive – Kitchen of Living Quarters above Office Area				
			1	Cove Base – Black, Rubbery	Y	None Detected	None Detected	100%
			2	Mastic – Tan, Organically Bound	Y	None Detected	None Detected	100%
8-2	8-2	N/A		Black Cove Base & Tan Adhesive – Kitchen of Living Quarters above Office Area				
			1	Cove Base – Black, Rubbery	Y	None Detected	None Detected	100%
			2	Mastic – Tan, Organically Bound	Y	None Detected	None Detected	100%
8-3	8-3	N/A		Black Cove Base & Tan Adhesive – Kitchen of Living Quarters above Office Area				
			1	Cove Base – Black, Rubbery	Y	None Detected	None Detected	100%
			2	Mastic – Tan, Organically Bound	Y	None Detected	None Detected	100%
9-1	9-1	N/A		Ceramic Tile Mortar – Tub Tile in Bathrooms of Living Areas above Office Area				
			1	Ceramic Tile – White, Hard	Y	None Detected	None Detected	100%
			2	Mortar – Light Pink, Granular	Y	None Detected	None Detected	100%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

989 Yeager Pkwy.
Pelham, AL 35124

Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Asbestos Bulk Sample Analysis Report

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210

Telephone: **205-823-6200** Fax: **205-823-9066**

Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
9-2	9-2	N/A		Ceramic Tile Mortar – Tub Tile in Bathrooms of Living Areas above Office Area				
			1	Ceramic Tile – White, Hard	Y	None Detected	None Detected	100%
			2	Mortar – Light Pink, Granular	Y	None Detected	None Detected	100%
9-3	9-3	N/A		Ceramic Tile Mortar – Tub Tile in Bathrooms of Living Areas above Office Area				
			1	Ceramic Tile – White, Hard	Y	None Detected	None Detected	100%
			2	Mortar – Light Pink, Granular	Y	None Detected	None Detected	100%
10-1	10-1	N/A		1'x1' Ceiling Tile w/Brown Mastic – Ceilings in Rooms 121				
			1	Ceiling Tile – White/Brown, Fibrous	N	None Detected	90% Cellulose Fibers	10%
			2	Mastic – Brown, Brittle	Y	None Detected	None Detected	100%
10-2	10-2	N/A		1'x1' Ceiling Tile w/Brown Mastic – Ceilings in Rooms 121				
			1	Ceiling Tile – White/Brown, Fibrous	N	None Detected	90% Cellulose Fibers	10%
			2	Mastic – Brown, Brittle	Y	None Detected	None Detected	100%
10-3	10-3	N/A		1'x1' Ceiling Tile w/Brown Mastic – Ceilings in Rooms 121				
			1	Ceiling Tile – White/Brown, Fibrous	N	None Detected	90% Cellulose Fibers	10%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
			2	Mastic – Brown, Brittle	Y	None Detected	None Detected	100%
11-1	11-1	N/A	1	Window Glazing – Exterior Windows – Rooms 121-140 Glazing – Off-white, Brittle	Y	None Detected	None Detected	100%
11-2	11-2	N/A	1	Window Glazing – Exterior Windows – Rooms 121-140 Glazing – Off-white, Brittle	Y	None Detected	None Detected	100%
11-3	11-3	N/A	1	Window Glazing – Exterior Windows – Rooms 121-140 Glazing – Off-white, Brittle	Y	None Detected	None Detected	100%
12-1	12-1	N/A		Ceramic Tile Mortar & Grout – Bathroom/Shower in Living Quarters 121-140				
			1	Ceramic Tile – White, Hard	Y	None Detected	None Detected	100%
			2	Grout – White, Brittle	Y	None Detected	None Detected	100%
			3	Mortar – Off-white, Brittle	Y	None Detected	None Detected	100%
12-2	12-2	N/A		Ceramic Tile Mortar & Grout – Bathroom/Shower in Living Quarters 121-140				
			1	Ceramic Tile – White, Hard	Y	None Detected	None Detected	100%
			2	Grout – White, Brittle	Y	None Detected	None Detected	100%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Carol Findlay

Technical Review
Carol Findlay – Microscopy Manager

Carol Findlay

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
			3	Mortar – Off-white, Brittle	Y	None Detected	None Detected	100%
12-3	12-3	N/A		Ceramic Tile Mortar & Grout – Bathroom/Shower in Living Quarters 121-140				
			1	Ceramic Tile – White, Hard	Y	None Detected	None Detected	100%
			2	Grout – White, Brittle	Y	None Detected	None Detected	100%
			3	Mortar – Off-white, Brittle	Y	None Detected	None Detected	100%
13-1	13-1	N/A		Ceramic Floor Tile Mortar & Grout – Living Area in Living Quarters 121-140, Light Gray – Mortar, Dark Gray – Grout				
			1	Mortar – Light Gray, Granular	Y	None Detected	None Detected	100%
			2	Grout – Dark Gray, Granular	Y	None Detected	None Detected	100%
13-2	13-2	N/A		Ceramic Floor Tile Mortar & Grout – Living Area in Living Quarters 121-140, Light Gray – Mortar, Dark Gray – Grout				
			1	Mortar – Light Gray, Granular	Y	None Detected	None Detected	100%
			2	Grout – Dark Gray, Granular	Y	None Detected	None Detected	100%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Carol Findlay

Technical Review
Carol Findlay – Microscopy Manager

Carol Findlay

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
13-3	13-3	N/A		Ceramic Floor Tile Mortar & Grout – Living Area in Living Quarters 121-140				
			1	Mortar – Light Gray, Granular	Y	None Detected	None Detected	100%
			2	Grout – Dark Gray, Granular	Y	None Detected	None Detected	100%
14-1	14-1	N/A		Black Cove Base & Tan Adhesive – Living Area in Living Quarters 121-140				
			1	Cove Base – Black, Rubbery	Y	None Detected	None Detected	100%
			2	Mastic – Tan, Organically Bound	Y	None Detected	None Detected	100%
14-2	14-2	N/A		Black Cove Base & Tan Adhesive – Living Area in Living Quarters 121-140				
			1	Cove Base – Black, Rubbery	Y	None Detected	None Detected	100%
			2	Mastic – Tan, Organically Bound	Y	None Detected	None Detected	100%
14-3	14-3	N/A		Black Cove Base & Tan Adhesive – Living Area in Living Quarters 121-140				
			1	Cove Base – Black, Rubbery	Y	None Detected	None Detected	100%
			2	Mastic – Tan, Organically Bound	Y	None Detected	None Detected	100%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
15-1	15-1	N/A		Drywall, Joint Compound & Tape – Living Quarters 121-140				
			1	Joint Compound/Paint – White, Soft	N	None Detected	None Detected	100%
			2	Tape – Tan, Fibrous	Y	None Detected	90% Cellulose Fibers	10%
			3	Joint Compound – White, Soft	Y	None Detected	None Detected	100%
			4	Drywall – Tan/Brown, Soft, Fibrous	N	None Detected	20% Cellulose Fibers	80%
15-2	15-2	N/A		Drywall, Joint Compound & Tape – Living Quarters 121-140				
			1	Joint Compound/Paint – White, Soft	N	None Detected	None Detected	100%
			2	Tape – Tan, Fibrous	Y	None Detected	90% Cellulose Fibers	10%
			3	Joint Compound – White, Soft	Y	None Detected	None Detected	100%
			4	Drywall – Tan/Brown, Soft, Fibrous	N	None Detected	20% Cellulose Fibers	80%
15-3	15-3	N/A		Drywall, Joint Compound & Tape – Living Quarters 121-140				
			1	Joint Compound/Paint – White, Soft	N	None Detected	None Detected	100%
			2	Tape – Tan, Fibrous	Y	None Detected	90% Cellulose Fibers	10%
			3	Joint Compound – White, Soft	Y	None Detected	None Detected	100%
			4	Drywall – Tan/Brown, Soft, Fibrous	N	None Detected	20% Cellulose Fibers	80%

Template-QMS-012 ver. 1.3

Analyst	Technical Review	Quality Review
Taliesen Partridge– Microscopy Analyst	Carol Findlay – Microscopy Manager	Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
16-1	16-1	N/A	1	Ceiling Texture – Living Quarters 121-140 Ceiling Texture – White, Soft	Y	None Detected	None Detected	100%
16-2	16-2	N/A	1	Ceiling Texture – Living Quarters 121-140 Ceiling Texture – White, Soft	Y	None Detected	None Detected	100%
16-3	16-3	N/A	1	Ceiling Texture – Living Quarters 121-140 Ceiling Texture – White, Soft	Y	None Detected	None Detected	100%
16-4	16-4	N/A	1	Ceiling Texture – Living Quarters 121-140 Ceiling Texture – White, Soft	Y	None Detected	None Detected	100%
16-5	16-5	N/A	1	Ceiling Texture – Living Quarters 121-140 Ceiling Texture – Tan, Soft	Y	None Detected	None Detected	100%
16-6	16-6	N/A	1	Ceiling Texture – Living Quarters 121-140 Ceiling Texture – White, Soft	Y	None Detected	None Detected	100%
16-7	16-7	N/A	1	Ceiling Texture – Living Quarters 121-140 Ceiling Texture – White, Soft	Y	None Detected	None Detected	100%
17-1	17-1	N/A		Roof Shingle and Felt Paper – Roof 121-128				
			1	Roofing Shingle – Speckled/Black, Fibrous, Organically Bound, Granular	N	None Detected	30% Fiberglass	70%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.
989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066
NVLAP LAB CODE: 200873-0

Asbestos Bulk Sample Analysis Report

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
			2	Roofing Felt – Black, Fibrous, Organically Bound	Y	None Detected	70% Cellulose Fibers	30%
17-2	17-2	N/A		Roof Shingle and Felt Paper – Roof 129 -132				
			1	Roofing Shingle – Speckled/Black, Fibrous, Organically Bound, Granular	N	None Detected	30% Fiberglass	70%
			2	Roofing Felt – Black, Fibrous, Organically Bound	Y	None Detected	70% Cellulose Fibers	30%
17-3	17-3	N/A		Roof Shingle and Felt Paper – Roof 133 -140				
			1	Roofing Shingle – Speckled/Black, Fibrous, Organically Bound, Granular	N	None Detected	30% Fiberglass	70%
			2	Roofing Felt – Black, Fibrous, Organically Bound	Y	None Detected	70% Cellulose Fibers	30%
18-1	18-1	N/A	1	Vinyl Sheet Flooring – Room 149 in Bathroom Vinyl Sheet Flooring – Off-white/Beige, Fibrous, Organically Bound	N	None Detected	5% Fiberglass	95%
18-2	18-2	N/A	1	Vinyl Sheet Flooring – Room 149 in Bathroom Vinyl Sheet Flooring – Off-white/Beige, Fibrous, Organically Bound	N	None Detected	5% Fiberglass	95%
18-3	18-3	N/A	1	Vinyl Sheet Flooring – Room 149 in Bathroom Vinyl Sheet Flooring – Off-white/Beige, Fibrous, Organically Bound	N	None Detected	5% Fiberglass	95%

Template-QMS-012 ver. 1.3



Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
19-1	19-1	N/A		12”x12” Floor Tile & Black Mastic – Room 147 in Bathroom				
			1	Floor Tile – Gray, Resinously Bound	Y	None Detected	None Detected	100%
			2	Mastic – Black, Organically Bound	Y	3% Chrysotile	None Detected	97%
19-2	19-2	N/A		12”x12” Floor Tile & Black Mastic – Room 147 in Bathroom				
			1	Floor Tile – Gray, Resinously Bound	Y	None Detected	None Detected	100%
			2	Mastic – Black, Organically Bound	Y	2% Chrysotile	None Detected	98%
19-3	19-3	N/A		12’x12’ Floor Tile & Black Mastic – Room 147 in Bathroom				
			1	Floor Tile – Gray, Resinously Bound	Y	None Detected	None Detected	100%
			2	Mastic – Black, Organically Bound	Y	3% Chrysotile	None Detected	97%
20-1	20-1	N/A		Drywall Joint Compound & Tape – Rooms 164 – 168 & 225-229				
			1	Joint Compound/Paint – White/Off-white, Soft	N	None Detected	None Detected	100%
			2	Tape – Tan, Fibrous	Y	None Detected	90% Cellulose Fibers	10%
			3	Drywall – Light Pink/Brown, Soft, Fibrous	N	None Detected	15% Cellulose Fibers	85%
20-2	20-2	N/A		Drywall Joint Compound & Tape – Rooms 164 – 168 & 225-229				
			1	Joint Compound/Paint – White/Off-white, Soft	N	None Detected	None Detected	100%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Carol Findlay

Technical Review
Carol Findlay – Microscopy Manager

Carol Findlay

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.
SELC
989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066
NVLAP LAB CODE: 200873-0

Asbestos Bulk Sample Analysis Report

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
			2	Joint Compound/Paint – White/Off-white, Soft	N	None Detected	None Detected	100%
			3	Drywall – Light Pink/Brown, Soft, Fibrous	N	None Detected	15% Cellulose Fibers	85%
20-3	20-3	N/A		Drywall Joint Compound & Tape – Rooms 164 – 168 & 225-229				
			1	Joint Compound/Paint – White/Off-white, Soft	N	None Detected	None Detected	100%
			2	Joint Compound/Paint – White/Off-white, Soft	N	None Detected	None Detected	100%
			3	Drywall – Light Pink/Brown, Soft, Fibrous	N	None Detected	15% Cellulose Fibers	85%
21-1	21-1	N/A		Vinyl Sheet Flooring – Bathroom of 225				
			1	Vinyl Sheet Flooring – Off-white/Gray, Fibrous, Organically Bound	N	None Detected	20% Cellulose Fibers 5% Fiberglass 5% Synthetic Fibers	70%
			2	Adhesive – Yellow, Gummy	Y	None Detected	3% Cellulose Fibers	97%
21-2	21-2	N/A		Vinyl Sheet Flooring – Bathroom of 225				
			1	Vinyl Sheet Flooring – Off-white/Gray, Fibrous, Organically Bound	N	None Detected	20% Cellulose Fibers 5% Fiberglass 5% Synthetic Fibers	70%
			2	Adhesive – Yellow, Gummy	Y	None Detected	3% Cellulose Fibers	97%

Template-QMS-012 ver. 1.3



Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
21-3	21-3	N/A		Vinyl Sheet Flooring – Bathroom of 225				
			1	Vinyl Sheet Flooring – Off-white/Gray, Fibrous, Organically Bound	N	None Detected	20% Cellulose Fibers 5% Fiberglass 5% Synthetic Fibers	70%
			2	Adhesive – Yellow, Gummy	Y	None Detected	None Detected	100%
22-1	22-1	N/A	1	White Caulk – between Window Frame & Brick 164-168 & 225 - 229 Caulk – White, Brittle	Y	None Detected	None Detected	100%
22-2	22-2	N/A	1	White Caulk – between Window Frame & Brick 164-168 & 225 - 229 Caulk – White, Brittle	Y	None Detected	None Detected	100%
22-3	22-3	N/A	1	White Caulk – between Window Frame & Brick 164-168 & 225 - 229 Caulk – White, Brittle	Y	None Detected	None Detected	100%
23-1	23-1	N/A		Black Cove Base & Tan Adhesive – Rooms 164-168 & 225-229				
			1	Cove Base – Black, Rubbery	Y	None Detected	None Detected	100%
			2	Adhesive – Tan, Organically Bound	Y	None Detected	None Detected	100%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
23-2	23-2	N/A		Black Cove Base & Tan Adhesive – Rooms 164-168 & 225-229				
			1	Cove Base – Black, Rubbery	Y	None Detected	None Detected	100%
			2	Adhesive – Tan, Organically Bound	Y	None Detected	None Detected	100%
23-3	23-3	N/A		Black Cove Base & Tan Adhesive – Rooms 164-168 & 225-229				
			1	Cove Base – Black, Rubbery	Y	None Detected	None Detected	100%
			2	Adhesive – Tan, Organically Bound	Y	None Detected	None Detected	100%
24-1	24-1	N/A		Ceramic Tile Mortar – Bathroom Floor – Rooms 164 -168 & 225-229				
			1	Tile – White, Hard	Y	None Detected	None Detected	100%
			2	Mortar – Gray, Granular	Y	None Detected	None Detected	100%
24-2	24-2	N/A		Ceramic Tile Mortar – Bathroom Floor – Rooms 164 -168 & 225-229				
			1	Tile – White, Hard	Y	None Detected	None Detected	100%
			2	Mortar – Gray, Granular	Y	None Detected	None Detected	100%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
24-3	24-3	N/A		Ceramic Tile Mortar – Bathroom Floor – Rooms 164 -168 & 225-229				
			1	Tile – White, Hard	Y	None Detected	None Detected	100%
			2	Mortar – Gray, Granular	Y	None Detected	None Detected	100%
25-1	25-1	N/A	1	Ceiling Texture – Rooms 164-168 & 225-229 Ceiling Texture – Off-white, Soft	Y	3% Chrysotile	None Detected	97%
25-2	25-2	N/A	1	Ceiling Texture – Rooms 164-168 & 225-229 Ceiling Texture – Off-white, Soft	Y	3% Chrysotile	None Detected	97%
25-3	25-3	N/A	1	Ceiling Texture – Rooms 164-168 & 225-229 Ceiling Texture – Off-white, Soft	Y	3% Chrysotile	None Detected	97%
25-4	25-4	N/A	1	Ceiling Texture – Rooms 164-168 & 225-229 Ceiling Texture – Off-white, Soft	Y	3% Chrysotile	None Detected	97%
25-5	25-5	N/A	1	Ceiling Texture – Rooms 164-168 & 225-229 Ceiling Texture – Off-white, Soft	Y	3% Chrysotile	None Detected	97%
25-6	25-6	N/A	1	Ceiling Texture – Rooms 164-168 & 225-229 Ceiling Texture – Off-white, Soft	Y	3% Chrysotile	None Detected	97%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.
989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066
NVLAP LAB CODE: 200873-0

Asbestos Bulk Sample Analysis Report

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
25-7	25-7	N/A	1	Ceiling Texture – Rooms 164-168 & 225-229 Ceiling Texture – Off-white, Soft	Y	3% Chrysotile	None Detected	97%
26-1	26-1	N/A		Black Cove Base & Tan Adhesive – Rooms 101-120 & 201-220				
			1	Cove Base – Dark Brown, Rubbery	Y	None Detected	None Detected	100%
			2	Mastic – Tan, Organically Bound	Y	None Detected	7% Cellulose Fibers	93%
26-2	26-2	N/A		Black Cove Base & Tan Adhesive – Rooms 101-120 & 201-220				
			1	Cove Base – Dark Brown, Rubbery	Y	None Detected	None Detected	100%
			2	Mastic – Tan, Organically Bound	Y	None Detected	5% Cellulose Fibers	95%
26-3	26-3	N/A		Black Cove Base & Tan Adhesive – Rooms 101-120 & 201-220				
			1	Cove Base – Dark Brown, Rubbery	Y	None Detected	None Detected	100%
			2	Mastic – Tan, Organically Bound	Y	None Detected	15% Cellulose Fibers	85%
27-1	27-1	N/A		Drywall Joint Compound & Tape – Rooms 101-120 & 201-220				
			1	Ceiling Texture – White/Gray, Soft	N	2% Chrysotile	None Detected	98%
			2	Tape – Tan, Fibrous	Y	None Detected	90% Cellulose Fibers	10%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
			3	Joint Compound – White, Soft	Y	None Detected	None Detected	100%
			4	Painted Drywall – Green/White/Brown, Soft, Fibrous	N	None Detected	15% Cellulose Fibers 2% Fiberglass	83%
27-2	27-2	N/A		Drywall Joint Compound & Tape – Rooms 101-120 & 201-220				
			1	Ceiling Texture – White/Gray, Soft	N	2% Chrysotile	None Detected	98%
			2	Tape – Tan, Fibrous	Y	None Detected	90% Cellulose Fibers	10%
			3	Joint Compound – White, Soft	Y	None Detected	None Detected	100%
			4	Painted Drywall – Green/White/Brown, Soft, Fibrous	N	None Detected	15% Cellulose Fibers 2% Fiberglass	83%
27-3	27-3	N/A		Drywall Joint Compound & Tape – Rooms 101-120 & 201-220				
			1	Ceiling Texture – White/Gray, Soft	N	2% Chrysotile	None Detected	98%
			2	Tape – Tan, Fibrous	Y	None Detected	90% Cellulose Fibers	10%
			3	Joint Compound – White, Soft	Y	None Detected	None Detected	100%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
			4	Painted Drywall – Green/White/Brown, Soft, Fibrous	N	None Detected	15% Cellulose Fibers 2% Fiberglass	83%
28-1	28-1	N/A		Ceramic Floor Tile – Bathrooms – Rooms 101-120 & 201-220, Grout – Dark Gray, Mortar – Light Gray				
			1	Tile – Brown, Hard	Y	None Detected	None Detected	100%
			2	Grout – Dark Gray, Granular	Y	None Detected	None Detected	100%
			3	Mortar – Light Gray, Granular	Y	None Detected	None Detected	100%
28-2	28-2	N/A		Ceramic Floor Tile – Bathrooms – Rooms 101-120 & 201-220, Grout – Dark Gray, Mortar – Light Gray				
			1	Tile – Brown, Hard	Y	None Detected	None Detected	100%
			2	Grout – Dark Gray, Granular	Y	None Detected	None Detected	100%
			3	Mortar – Light Gray, Granular	Y	None Detected	None Detected	100%
28-3	28-3	N/A		Ceramic Floor Tile – Bathrooms – Rooms 101-120 & 201-220, Grout – Dark Gray, Mortar – Light Gray				
			1	Tile – Brown, Hard	Y	None Detected	None Detected	100%
			2	Grout – Dark Gray, Granular	Y	None Detected	None Detected	100%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Carol Findlay

Technical Review
Carol Findlay – Microscopy Manager

Carol Findlay

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
			3	Mortar – Light Gray, Granular	Y	None Detected	None Detected	100%
29-1	29-1	N/A	1	Ceiling Texture – Rooms 101-120 & 201-220 Ceiling Texture – Off-white, Soft	Y	2% Chrysotile	None Detected	98%
29-2	29-2	N/A	1	Ceiling Texture – Rooms 101-120 & 201-220 Ceiling Texture – Off-white, Soft	Y	2% Chrysotile	None Detected	98&
29-3	29-3	N/A	1	Ceiling Texture – Rooms 101-120 & 201-220 Ceiling Texture – Off-white, Soft	Y	2% Chrysotile	None Detected	98%
29-4	29-4	N/A	1	Ceiling Texture – Rooms 101-120 & 201-220 Ceiling Texture – Off-white, Soft	Y	2% Chrysotile	None Detected	98%
29-5	29-5	N/A	1	Ceiling Texture – Rooms 101-120 & 201-220 Ceiling Texture – Off-white, Soft	Y	2% Chrysotile	None Detected	98%
29-6	29-6	N/A	1	Ceiling Texture – Rooms 101-120 & 201-220 Ceiling Texture – Off-white, Soft	Y	2% Chrysotile	None Detected	98%
29-7	29-7	N/A	1	Ceiling Texture – Rooms 101-120 & 201-220 Ceiling Texture – Off-white, Soft	Y	2% Chrysotile	None Detected	98%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
30-1	30-1	N/A		Drywall, Joint Compound & Tape – Rooms 151-160 & 251-260				
			1	Joint Compound – White/Gray, Soft	N	2% Chrysotile	None Detected	98%
			2	Tape – Tan, Fibrous	Y	None Detected	90% Cellulose Fibers	10%
			3	Joint Compound – White, Soft	Y	2% Chrysotile	None Detected	98%
			4	Drywall – Off-white/Brown, Soft, Fibrous	N	None Detected	20% Cellulose Fibers 2% Fiberglass	78%
30-2	30-2	N/A		Drywall, Joint Compound & Tape – Rooms 151-160 & 251-260				
			1	Joint Compound – White/Gray, Soft	N	2% Chrysotile	None Detected	98%
			2	Tape – Tan, Fibrous	Y	None Detected	90% Cellulose Fibers	10%
			3	Joint Compound – White, Soft	Y	2% Chrysotile	None Detected	98%
			4	Drywall – Off-white/Brown, Soft, Fibrous	N	None Detected	20% Cellulose Fibers 2% Fiberglass	78%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
30-3	30-3	N/A		Drywall, Joint Compound & Tape – Rooms 151-160 & 251-260				
			1	Joint Compound – White/Gray, Soft	N	2% Chrysotile	None Detected	98%
			2	Tape – Tan, Fibrous	Y	None Detected	90% Cellulose Fibers	10%
			3	Joint Compound – White, Soft	Y	2% Chrysotile	None Detected	98%
			4	Drywall – Off-white/Brown, Soft, Fibrous	N	None Detected	20% Cellulose Fibers 2% Fiberglass	78%
31-1	31-1	N/A		Black Cove Base & Brown Adhesive – Rooms 151-160 & 251-260				
			1	Cove Base – Black, Rubbery	Y	None Detected	None Detected	100%
			2	Adhesive – Brown, Organically Bound	Y	None Detected	None Detected	100%
31-2	31-2	N/A		Black Cove Base & Brown Adhesive – Rooms 151-160 & 251-260				
			1	Cove Base – Black, Rubbery	Y	None Detected	None Detected	100%
			2	Adhesive – Brown, Organically Bound	Y	None Detected	None Detected	100%

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
31-3	31-3	N/A		Black Cove Base & Brown Adhesive – Rooms 151-160 & 251-260				
			1	Cove Base – Black, Rubbery	Y	None Detected	None Detected	100%
			2	Adhesive – Brown, Organically Bound	Y	None Detected	None Detected	100%
32-1	32-1	N/A		Ceramic Floor Tile Mortar & Grout – Rooms 151-160 & 251-260, Mortar – attached to Tile, Grout – Gray				
			1	Tile – Brown, Hard	Y	None Detected	None Detected	100%
			2	Grout – Brown, Granular	Y	None Detected	None Detected	100%
			3	Mortar – Gray, Granular	Y	None Detected	None Detected	100%
32-2	32-2	N/A		Ceramic Floor Tile Mortar & Grout – Rooms 151-160 & 251-260, Mortar – attached to Tile, Grout – Gray				
			1	Tile – Brown, Hard	Y	None Detected	None Detected	100%
			2	Grout – Brown, Granular	Y	None Detected	None Detected	100%
			3	Mortar – Gray, Granular	Y	None Detected	None Detected	100%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
32-3	32-3	N/A		Ceramic Floor Tile Mortar & Grout – Rooms 151-160 & 251-260, Mortar – attached to Tile, Grout – Gray				
			1	Tile – Brown, Hard	Y	None Detected	None Detected	100%
			2	Grout – Brown, Granular	Y	None Detected	None Detected	100%
			3	Mortar – Gray, Granular	Y	None Detected	None Detected	100%
33-1	33-1	N/A		Vinyl Sheet Flooring – Kitchen Area – Rooms 151-160 & 251-260				
			1	Vinyl Sheet Flooring – Off-white/Beige, Fibrous, Organically Bound	N	None Detected	20% Cellulose Fibers 5% Fiberglass 5% Synthetic Fibers	70%
			2	Mastic – Brown/Black, Organically Bound	N	2% Chrysotile	None Detected	98%
33-2	33-2	N/A		Vinyl Sheet Flooring – Kitchen Area – Rooms 151-160 & 251-260				
			1	Vinyl Sheet Flooring – Off-white/Beige, Fibrous, Organically Bound	N	None Detected	20% Cellulose Fibers 5% Fiberglass 5% Synthetic Fibers	70%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Carol Findlay

Technical Review
Carol Findlay – Microscopy Manager

Carol Findlay

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
			2	Mastic – Brown/Black, Organically Bound	N	3% Chrysotile	3% Cellulose Fibers	94%
33-3	33-3	N/A		Vinyl Sheet Flooring – Kitchen Area – Rooms 151-160 & 251-260				
			1	Vinyl Sheet Flooring – Off-white/Beige, Fibrous, Organically Bound	N	None Detected	20% Cellulose Fibers 5% Fiberglass 5% Synthetic Fibers	70%
			2	Mastic – Brown/Black, Organically Bound	N	2% Chrysotile	None Detected	98%
34-1	34-1	N/A	1	Ceiling Texture – Rooms 151-160 & 251-260 Ceiling Texture – Off-white, Soft	Y	2% Chrysotile	None Detected	98%
34-2	34-2	N/A	1	Ceiling Texture – Rooms 151-160 & 251-260 Ceiling Texture – Off-white, Soft	Y	3% Chrysotile	None Detected	97%
34-3	34-3	N/A	1	Ceiling Texture – Rooms 151-160 & 251-260 Ceiling Texture – Off-white, Soft	Y	2% Chrysotile	None Detected	98%
34-4	34-4	N/A	1	Ceiling Texture – Rooms 151-160 & 251-260 Ceiling Texture – Off-white, Soft	Y	3% Chrysotile	None Detected	97%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
34-5	34-5	N/A	1	Ceiling Texture – Rooms 151-160 & 251-260 Ceiling Texture – Off-white, Soft	Y	3% Chrysotile	None Detected	97%
34-6	34-6	N/A	1	Ceiling Texture – Rooms 151-160 & 251-260 Ceiling Texture – Off-white, Soft	Y	2% Chrysotile	None Detected	98%
34-7	34-7	N/A	1	Ceiling Texture – Rooms 151-160 & 251-260 Ceiling Texture – Off-white, Soft	Y	3% Chrysotile	None Detected	97%
35-1	35-1	N/A		Asphalt Roofing & Felt Paper – Roof of Pool Building				
			1	Roofing Shingle – Speckled/Black, Fibrous, Organically Bound, Granular	N	None Detected	30% Fiberglass	70%
			2	Roofing Felt – Black, Fibrous, Organically Bound	Y	None Detected	70% Cellulose Fibers	30%
35-2	35-2	N/A		Asphalt Roofing & Felt Paper – Roof of Pool Building				
			1	Roofing Shingle – Speckled/Black, Fibrous, Organically Bound, Granular	N	None Detected	30% Fiberglass	70%
			2	Roofing Felt – Black, Fibrous, Organically Bound	Y	None Detected	70% Cellulose Fibers	30%

Template-QMS-012 ver. 1.3

Analyst
Taliesen Partridge– Microscopy Analyst

Technical Review
Carol Findlay – Microscopy Manager

Quality Review
Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

Asbestos Bulk Sample Analysis Report

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

NVLAP LAB CODE: 200873-0

Customer: **Building and Earth Sciences, Inc.**
5545 Derby Drive
Birmingham, AL 35210
Telephone: **205-823-6200** Fax: **205-823-9066**
Project Number: **BH190118**
Project Name: **2510 Crestwood Blvd**
Project Location: **Irondale, AL**
SELC Project #: **2019-0923**

Sample Receipt Date: 04/23/2019
Sample Analysis Date: 04/26/2019 – 04/30/2019
Sample Report Date: 04/30/2019

Analysis: Asbestos Identification in Bulk Materials by Polarized Light Microscopy
Method: EPA/600/R-93/116 July 1993 – Method for the Determination of Asbestos in Bulk Building Materials
Note: See Attached Notes and Descriptions Sheet for Applicable Abbreviations and Notes

Customer Sample No.	Lab Sample No.	Sub-sample No.	Layer No.	Sample Location / Description	Homo-geneous (yes/no)	Asbestos % and Type	% Non-Asbestos Fibers	% Non-Fibrous Material
35-3	35-3	N/A		Asphalt Roofing & Felt Paper – Roof of Pool Building				
			1	Roofing Shingle – Speckled/Black, Fibrous, Organically Bound, Granular	N	None Detected	30% Fiberglass	70%
			2	Roofing Felt – Black, Fibrous, Organically Bound	Y	None Detected	70% Cellulose Fibers	30%

☒ This report is **FINAL** ☐ This report is **PRELIMINARY** – pending final QC

Template-QMS-012 ver. 1.3

Analyst	Technical Review	Quality Review
Taliesen Partridge– Microscopy Analyst	Carol Findlay – Microscopy Manager	Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

989 Yeager Pkwy.
Pelham, AL 35124

Phone: (205) 823-6200
Fax: (205) 823-9066

PLM Notes and Descriptions

1. Upper detection limit: 100%. Lower detection limit: <1%.
2. Bulk Samples will be stored for 3 months and will then be disposed of in an approved EPA landfill.
3. Analysis of floor tile or any other resinously bound materials by polarized light microscopy (PLM) using EPA Method 600/R-93/116 dated July 1993 may yield false-negative results because of method limitations in separating closely bound fibers from matrix material and in detecting fibers of small length and/or diameter. When analysis of such materials by the EPA PLM Method yields negative results for the presence of asbestos we recommend utilizing alternative methods of identification such as Gravimetry, XRD or AEM.
4. Samples are not homogenized by SELC prior to analysis. Distinct material layers within a sample are analyzed and reported separately by SELC. When multiple products are submitted by the customer under one sample number, SELC indicates those distinct products as sub-samples. SELC retains all samples numbers but will designate a sample number to those that are not given a sample number by the customer.
5. Percentages given are based on a visual estimated calibration.
6. Safety Environmental Laboratories and Consulting, Inc. is a NVLAP accredited laboratory, Lab Code: 200873-0 (ISO/IEC Standard 17025:2005 Compliant).
7. All tests were performed under the scope of SELC's NVLAP accreditation, unless indicated otherwise.
8. All samples were received in a condition suitable for analysis ("Good"), unless otherwise noted.
9. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
10. Analytical Instrument: Olympus Polarized Light Microscope Series BH-2 Model BHT-002
11. These results only apply to samples tested with client provided information. Please see attached Chain of Custody.

Analyst	Technical Review	Quality Review
Taliesen Partridge– Microscopy Analyst	Carol Findlay – Microscopy Manager	Carol Findlay – Microscopy Manager

Copyright© All rights reserved; copyright protected; Safety Environmental Laboratories and Consulting, Inc. 2019

Safety Environmental Laboratories and Consulting, Inc.

989 Yeager Pkwy.
Pelham, AL 35124
Phone: (205) 823-6200
Fax: (205) 823-9066

Environmental, Health, and Safety Solutions

SELC

Chain of Custody Form

Customer: Kyle Haggard - Building & Earth
Address: 5545 Derby Drive
Birmingham, AL 35210
Phone: 205-836-6300 Fax:
E-mail: khaggard@buildingandearth.com

Project Number: BH190118
Project Name: 2510 Crestwood Blvd
Project Location: Irondale, AL
PO Number:
SELC Proj. #: 19-0923

Sample Type
- [ ] Air
- [X] Bulk
- [ ] Paint
- [ ] Soil
- [ ] Waste
- [ ] Other:

Asbestos Analysis
- [ ] Asbestos Air - PCM
- [ ] Asbestos Air - TEM
- [X] PLM (EPA 600/R-93/116)
- [ ] PLM (EPA Point Count)
- [ ] Other:

Metals Analysis
- [ ] Total Conc. - Lead
- [ ] Total Conc. - RCRA 8-Metals
- [ ] TCLP - Lead
- [ ] TCLP - RCRA 8-Metals
- [ ] TCLP - Full (w/ organics)
- [ ] Other:

Turn-Around Time*
- [ ] Rush/Same Day†
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 3 Business Days
- [ ] 4 Business Days
- [X] Other: 5 Business Days

- Field blanks should be submitted with all samples -

* *Some TAT not available for all tests. Must schedule rush organics, multi-metals, and weekend tests in advance.*
† *Same day not available after 2:00 PM*

Sample #	Date Sampled	Sample Description (e.g. Employee Name, SSN, Bldg, Material)	Area Wiped (ft²)	Type ‡ A/B/P/E	Time of Sampling Start	Time of Sampling Stop	Flow Rate (L/min) Start	Flow Rate (L/min) Stop	Total Vol. (L)	SELC USE ONLY #	SELC USE ONLY Cond
1-1	4-22-19	white ceiling texture - exterior under office building awning								1-1	C
1-2		↓								1-2	C
1-3		↓								1-3	C
2-1		gray caulking - exterior around window frames & brick (office building)								2-1	C
2-2		↓								2-2	C
2-3		↓								2-3	C
3-1		Ceramic tile mortar & grout - floors in office building								3-1	C
3-2		↓ mortar - white								3-2	C
3-3		↓ grout - dark gray								3-3	C
4-1		1'x1' Ceiling tile w/ brown adhesive - ceiling in office building								4-1	C
4-2		↓								4-2	C
4-3		↓								4-3	C
5-1		Ceiling texture - interior on ceilings in office building								5-1	C
5-2	↓	↓								5-2	C

‡ A - Area, B - Blank, P - Personal, E - Excursion

Sampled By:
Signature

Relinquished by:

Signature	Date	Time
	4-23-19	1440

Received By:

Signature	Date	Time
	4-23-19	2:40pm

Safety Environmental Laboratories and Consulting, Inc.

989 Yeager Pkwy. Phone: (205) 823-6200
Pelham, AL 35124 Fax: (205) 823-9066

Environmental, Health, and Safety Solutions

Chain of Custody Form

Customer: Kyle Haggard - Building & Earth
Address: 5545 Derby Drive
Birmingham, AL 35210
Phone: 205-836-6300 Fax:
E-mail: khaggard@buildingandearth.com

Project Number: BH190118
Project Name: 2510 Crestwood Blvd
Project Location: Irondale, AL
PO Number:
SELC Proj. #: 19-0923

Sample Type
- [ ] Air
- [X] Bulk
- [ ] Paint
- [ ] Soil
- [ ] Waste
- [ ] Other:

Asbestos Analysis
- [ ] Asbestos Air - PCM
- [ ] Asbestos Air - TEM
- [X] PLM (EPA 600/R-93/116)
- [ ] PLM (EPA Point Count)
- [ ] Other:

Metals Analysis
- [ ] Total Conc. - Lead
- [ ] Total Conc. - RCRA 8-Metals
- [ ] TCLP - Lead
- [ ] TCLP - RCRA 8-Metals
- [ ] TCLP - Full (w/ organics)
- [ ] Other:

Turn-Around Time*
- [ ] Rush/Same Day†
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 3 Business Days
- [ ] 4 Business Days
- [X] Other: 5 Business Days

- Field blanks should be submitted with all samples -

** Some TAT not available for all tests. Must schedule rush organics, multi-metals, and weekend tests in advance.*
† Same day not available after 2:00 PM

Sample #	Date Sampled	Sample Description (e.g. Employee Name, SSN, Bldg, Material)	Area Wiped (ft²)	Type ‡ A/B/P/E	Time of Sampling Start	Time of Sampling Stop	Flow Rate (L/min) Start	Flow Rate (L/min) Stop	Total Vol. (L)	SELC USE ONLY #	SELC USE ONLY Cond
5-3	4-22-19	Ceiling texture - interior on ceilings in office building								5-3	C
5-4										5-4	C
5-5										5-5	C
5-6										5-6	C
5-7										5-7	C
6-1		Drywall, joint compound & tape - above 1'x1' ceiling tile & ceilings								6-1	C
6-2		throughout office building								6-2	C
6-3										6-3	C
7-1		Black sink mastic - living quarters above office area								7-1	C
7-2										7-2	C
7-3										7-3	C
8-1		Black cove base & tan adhesive - kitchen of living quarters above office area								8-1	C
8-2										8-2	C
8-3										8-3	C

‡ A - Area, B - Blank, P - Personal, E - Excursion

Sampled By:
Signature

Relinquished by:

Signature	Date	Time
	4-22-19	1440

Received By:

Signature	Date	Time
	4-23-19	2:40 pm

Safety Environmental Laboratories and Consulting, Inc.

989 Yeager Pkwy. Phone: (205) 823-6200
Pelham, AL 35124 Fax: (205) 823-9066

Environmental, Health, and Safety Solutions

Chain of Custody Form

Customer: Kyle Haggard - Building & Earth
Address: 5545 Derby Drive
Birmingham, AL 35210
Phone: 205-836-6300 Fax:
E-mail: khaggard@buildingandearth.com

Project Number: BH190118
Project Name: 2510 Crestwood Blvd
Project Location: Irondale, AL
PO Number:
SELC Proj. #: 19-0923

Sample Type
- [ ] Air
- [X] Bulk
- [ ] Paint
- [ ] Soil
- [ ] Waste
- [ ] Other:

Asbestos Analysis
- [ ] Asbestos Air - PCM
- [ ] Asbestos Air - TEM
- [X] PLM (EPA 600/R-93/116)
- [ ] PLM (EPA Point Count)
- [ ] Other:

Metals Analysis
- [ ] Total Conc. - Lead
- [ ] Total Conc. - RCRA 8-Metals
- [ ] TCLP - Lead
- [ ] TCLP - RCRA 8-Metals
- [ ] TCLP - Full (w/ organics)
- [ ] Other:

Turn-Around Time*
- [ ] Rush/Same Day†
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 3 Business Days
- [ ] 4 Business Days
- [X] Other: 5 Business Days

- Field blanks should be submitted with all samples -

* *Some TAT not available for all tests. Must schedule rush organics, multi-metals, and weekend tests in advance*
† *Same day not available after 2:00 PM*

Sample #	Date Sampled	Sample Description (e.g. Employee Name, SSN, Bldg, Material)	Area Wiped (ft²)	Type ‡ A/B/P/E	Time of Sampling Start	Time of Sampling Stop	Flow Rate (L/min) Start	Flow Rate (L/min) Stop	Total Vol. (L)	SELC USE ONLY #	SELC USE ONLY Cond
9-1	4-22-19	Ceramic tile mortar - tub tile in bathrooms of living areas above office								9-1	C
9-2		↓								9-2	C
9-3		↓								9-3	C
10-1		1'x1' ceiling tile w/ brown mastic - ceilings in rooms 121 -								10-1	C
10-2		↓								10-2	C
10-3		↓								10-3	C
11-1		window glazing - exterior windows - rooms 121 - 140								11-1	C
11-2		↓								11-2	C
11-3		↓								11-3	C
12-1		Ceramic tile mortar & grout - bathroom/shower in living quarters 121-140								12-1	C
12-2		↓								12-2	C
12-3		↓								12-3	C
13-1		Ceramic floor tile mortar & grout - living area in living quarters 121-140								13-1	C
13-2		↓ light gray - mortar dark gray - grout								13-2	C

‡ A - Area, B - Blank, P - Personal, E - Excursion

Sampled By:
Signature

Relinquished by:

Signature	Date	Time
	4-22-19	1440

Received By:

Signature	Date	Time
	4-23-19	2:40 pm

Safety Environmental Laboratories and Consulting, Inc.

989 Yeager Pkwy. Phone: (205) 823-6200
Pelham, AL 35124 Fax: (205) 823-9066

Environmental, Health, and Safety Solutions

SELC

Chain of Custody Form

Customer: Kyle Haggard - Building & Earth
Address: 5545 Derby Drive
Birmingham, AL 35210
Phone: 205-836-6300 Fax:
E-mail: khaggard@buildingandearth.com

Project Number: BH190118
Project Name: 2510 Crestwood Blvd
Project Location: Irondale, AL
PO Number:
SELC Proj. #: 19-0923

Sample Type
- [ ] Air
- [X] Bulk
- [ ] Paint
- [ ] Soil
- [ ] Waste
- [ ] Other:

Asbestos Analysis
- [ ] Asbestos Air - PCM
- [ ] Asbestos Air - TEM
- [X] PLM (EPA 600/R-93/116)
- [ ] PLM (EPA Point Count)
- [ ] Other:

Metals Analysis
- [ ] Total Conc. - Lead
- [ ] Total Conc. - RCRA 8-Metals
- [ ] TCLP - Lead
- [ ] TCLP - RCRA 8-Metals
- [ ] TCLP - Full (w/ organics)
- [ ] Other:

Turn-Around Time*
- [ ] Rush/Same Day†
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 3 Business Days
- [ ] 4 Business Days
- [X] Other: 5 Business Days

- Field blanks should be submitted with all samples -

* *Some TAT not available for all tests. Must schedule rush organics, multi-metals, and weekend tests in advance.*
† *Same day not available after 2:00 PM*

Sample #	Date Sampled	Sample Description (e.g. Employee Name, SSN, Bldg, Material)	Area Wiped (ft²)	Type ‡ A/B/P/E	Time of Sampling Start	Time of Sampling Stop	Flow Rate (L/min) Start	Flow Rate (L/min) Stop	Total Vol. (L)	SELC USE ONLY #	SELC USE ONLY Cond
13-3	4-22-19	Ceramic floor tile mortar & grout - living area in living quarters					121	140		13-3	C
14-1		Black cove base & tan adhesive - living area in living quarters					121	140		14-1	C
14-2		↓								14-2	C
14-3		↓								14-3	C
15-1		Drywall, joint compound & tape - living quarters					121	140		15-1	C
15-2		↓								15-2	C
15-3		↓								15-3	C
16-1		Ceiling texture - living quarters					121	140		16-1	C
16-2		↓								16-2	C
16-3		↓								16-3	C
16-4		↓								16-4	C
16-5		↓								16-5	C
16-6		↓								16-6	C
16-7	↓	↓								16-7	C

‡ A - Area, B - Blank, P - Personal, E - Excursion

Sampled By:
Signature

Relinquished by:

Signature	Date	Time
	4-22-19	1440

Received By:

Signature	Date	Time
	4-23-19	2:40 pm

Safety Environmental Laboratories and Consulting, Inc.

989 Yeager Pkwy. Phone: (205) 823-6200
Pelham, AL 35124 Fax: (205) 823-9066

Environmental, Health, and Safety Solutions

Chain of Custody Form

Customer: Kyle Haggard - Building & Earth
Address: 5545 Derby Drive
Birmingham, AL 35210
Phone: 205-836-6300 Fax:
E-mail: khaggard@buildingandearth.com

Project Number: BH190118
Project Name: 2510 Crestwood Blvd
Project Location: Irondale, AL
PO Number:
SELC Proj. #: 19-0923

Sample Type
- [ ] Air
- [X] Bulk
- [ ] Paint
- [ ] Soil
- [ ] Waste
- [ ] Other:

Asbestos Analysis
- [ ] Asbestos Air - PCM
- [ ] Asbestos Air - TEM
- [X] PLM (EPA 600/R-93/116)
- [ ] PLM (EPA Point Count)
- [ ] Other:

Metals Analysis
- [ ] Total Conc. - Lead
- [ ] Total Conc. - RCRA 8-Metals
- [ ] TCLP - Lead
- [ ] TCLP - RCRA 8-Metals
- [ ] TCLP - Full (w/ organics)
- [ ] Other:

Turn-Around Time*
- [ ] Rush/Same Day†
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 3 Business Days
- [ ] 4 Business Days
- [X] Other: 5 Business Days

- Field blanks should be submitted with all samples -

* *Some TAT not available for all tests. Must schedule rush organics, multi-metals, and weekend tests in advance*
† *Same day not available after 2:00 PM*

Sample #	Date Sampled	Sample Description (e.g. Employee Name, SSN, Bldg, Material)	Area Wiped (ft²)	Type ‡ A/B/P/E	Time of Sampling Start	Time of Sampling Stop	Flow Rate (L/min) Start	Flow Rate (L/min) Stop	Total Vol. (L)	SELC USE ONLY #	SELC USE ONLY Cond
17-1	4-22-19	Roof shingle & felt paper -	roof		121	124				17-1	C
17-2		↓	roof		129	132				17-2	C
17-3		↓	roof		133	140				17-3	C
18-1		Vinyl sheet flooring - Room 149 in bathroom								18-1	C
18-2		↓								18-2	C
18-3		↓								18-3	C
19-1		12"x12" floortile & black mastic - Room 147 in bathroom								19-1	C
19-2		↓								19-2	C
19-3		↓								19-3	C
20-1		Drywall joint compound & tape - Rooms			164	168	& 225	229		20-1	C
20-2		↓								20-2	C
20-3		↓								20-3	C
21-1		Vinyl sheet flooring - bathroom of 225								21-1	C
21-1		↓								21-2	C

‡ A - Area, B - Blank, P - Personal, E - Excursion

Sampled By:
Signature

Relinquished by:

Signature	Date	Time
	4-23-19	1440

Received By:

Signature	Date	Time
	4-23-19	2:40pm

Safety Environmental Laboratories and Consulting, Inc.

989 Yeager Pkwy. Phone: (205) 823-6200
Pelham, AL 35124 Fax: (205) 823-9066

Environmental, Health, and Safety Solutions

SELC

Chain of Custody Form

Customer: Kyle Haggard - Building & Earth
Address: 5545 Derby Drive
Birmingham, AL 35210
Phone: 205-836-6300 Fax:
E-mail: khaggard@buildingandearth.com

Project Number: BH190118
Project Name: 2510 Crestwood Blvd
Project Location: Irondale, AL
PO Number:
SELC Proj. #: 19-0923

Sample Type
- [ ] Air
- [X] Bulk
- [ ] Paint
- [ ] Soil
- [ ] Waste
- [ ] Other:

Asbestos Analysis
- [ ] Asbestos Air - PCM
- [ ] Asbestos Air - TEM
- [X] PLM (EPA 600/R-93/116)
- [ ] PLM (EPA Point Count)
- [ ] Other:

Metals Analysis
- [ ] Total Conc. - Lead
- [ ] Total Conc. - RCRA 8-Metals
- [ ] TCLP - Lead
- [ ] TCLP - RCRA 8-Metals
- [ ] TCLP - Full (w/ organics)
- [ ] Other:

Turn-Around Time*
- [ ] Rush/Same Day†
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 3 Business Days
- [ ] 4 Business Days
- [X] Other: 5 Business Days

- Field blanks should be submitted with all samples -

* *Some TAT not available for all tests. Must schedule rush organics, multi-metals, and weekend tests in advance.*
† *Same day not available after 2:00 PM*

Sample #	Date Sampled	Sample Description (e.g. Employee Name, SSN, Bldg, Material)	Area Wiped (ft²)	Type ‡ A/B/P/E	Time of Sampling Start	Time of Sampling Stop	Flow Rate (L/min) Start	Flow Rate (L/min) Stop	Total Vol. (L)	SELC USE ONLY #	SELC USE ONLY Cond
21-3	4-22-19	Vinyl Sheet flooring - bathrooms 225								21-3	C
22-1		White caulk - between window frame & brick - 164-168 & 225-229								22-1	C
22-2		↓								22-2	C
22-3		↓								22-3	C
23-1		Black cove base & tan adhesive - Rooms 164-168 & 225-229								23-1	C
23-2		↓								23-2	C
23-3		↓								23-3	C
24-1		Ceramic tile mortar - bathroom floor - Rooms 164-168 & 225-229								24-1	C
24-2		↓								24-2	C
24-3		↓								24-3	C
25-1		Ceiling texture - Rooms 164-168 & 225-229								25-1	C
25-2		↓								25-2	C
25-3		↓								25-3	C
25-4		↓								25-4	C

‡ A - Area, B - Blank, P - Personal, E - Excursion

Sampled By:
Signature

Relinquished by:

Signature	Date	Time
	4-23-19	1440

Received By:

Signature	Date	Time
Betty Lindsey	4-23-19	2:40pm

Safety Environmental Laboratories and Consulting, Inc.

989 Yeager Pkwy. Phone: (205) 823-6200
Pelham, AL 35124 Fax: (205) 823-9066

Environmental, Health, and Safety Solutions

SELC

Chain of Custody Form

Customer: Kyle Haggard - Building & Earth
Address: 5545 Derby Drive
Birmingham, AL 35210
Phone: 205-836-6300 Fax:
E-mail: khaggard@buildingandearth.com

Project Number: BH190118
Project Name: 2510 Crestwood Blvd
Project Location: Irondale, AL
PO Number:
SELC Proj. #: 19-0923

Sample Type
- [ ] Air
- [X] Bulk
- [ ] Paint
- [ ] Soil
- [ ] Waste
- [ ] Other:

Asbestos Analysis
- [ ] Asbestos Air - PCM
- [ ] Asbestos Air - TEM
- [X] PLM (EPA 600/R-93/116)
- [ ] PLM (EPA Point Count)
- [ ] Other:

Metals Analysis
- [ ] Total Conc. - Lead
- [ ] Total Conc. - RCRA 8-Metals
- [ ] TCLP - Lead
- [ ] TCLP - RCRA 8-Metals
- [ ] TCLP - Full (w/ organics)
- [ ] Other:

Turn-Around Time*
- [ ] Rush/Same Day†
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 3 Business Days
- [ ] 4 Business Days
- [X] Other: 5 Business Days

- Field blanks should be submitted with all samples -

* *Some TAT not available for all tests. Must schedule rush organics, multi-metals, and weekend tests in advance.*
† *Same day not available after 2:00 PM*

Sample #	Date Sampled	Sample Description (e.g. Employee Name, SSN, Bldg, Material)	Area Wiped (ft²)	Type ‡ A/B/P/E	Time of Sampling Start	Time of Sampling Stop	Flow Rate (L/min) Start	Flow Rate (L/min) Stop	Total Vol. (L)	SELC USE ONLY #	SELC USE ONLY Cond
25-5	4-22-19	Ceiling texture - Rooms 164-168 & 225-229								25-5	C
25-6		↓								25-6	C
25-7		↓								25-7	C
26-1		Black cove base & tan adhesive - Rooms 101-120 & 201-220								26-1	C
26-2		↓								26-2	C
26-3		↓								26-3	C
27-1		Drywall joint compound & tape - Rooms 101-120 & 201-220								27-1	C
27-2		↓								27-2	C
27-3		↓								27-3	C
28-1		ceramic floor tile - bathrooms - Rooms 101-120 & 201-220								28-1	C
28-2		↓ grout - dark gray								28-2	C
28-3		↓ mortar - light gray								28-3	C
29-1		ceiling texture - Rooms 101-120 & 201-220								29-1	C
29-2		↓								29-2	C

‡ A - Area, B - Blank, P - Personal, E - Excursion

Sampled By:
Signature

Relinquished by:

Signature	Date	Time
	4-22-19	1440

Received By:

Signature	Date	Time
	4-23-19	2:40 pm

SELC

Safety Environmental Laboratories and Consulting, Inc.

989 Yeager Pkwy. Phone: (205) 823-6200
Pelham, AL 35124 Fax: (205) 823-9066

Environmental, Health, and Safety Solutions

Chain of Custody Form

Customer: Kyle Haggard - Building & Earth
Address: 5545 Derby Drive
Birmingham, AL 35210
Phone: 205-836-6300 Fax:
E-mail: khaggard@buildingandearth.com

Project Number: BH190118
Project Name: 2510 Crestwood Blvd
Project Location: Irondale, AL
PO Number:
SELC Proj. #: 19-0923

Sample Type
- [ ] Air
- [X] Bulk
- [ ] Paint
- [ ] Soil
- [ ] Waste
- [ ] Other:

Asbestos Analysis
- [ ] Asbestos Air - PCM
- [ ] Asbestos Air - TEM
- [X] PLM (EPA 600/R-93/116)
- [ ] PLM (EPA Point Count)
- [ ] Other:

Metals Analysis
- [ ] Total Conc. - Lead
- [ ] Total Conc. - RCRA 8-Metals
- [ ] TCLP - Lead
- [ ] TCLP - RCRA 8-Metals
- [ ] TCLP - Full (w/ organics)
- [ ] Other:

Turn-Around Time*
- [ ] Rush/Same Day†
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 3 Business Days
- [ ] 4 Business Days
- [X] Other: 5 Business Days

- Field blanks should be submitted with all samples -

* *Some TAT not available for all tests. Must schedule rush organics, multi-metals, and weekend tests in advance*
† *Same day not available after 2:00 PM*

Sample #	Date Sampled	Sample Description (e.g. Employee Name, SSN, Bldg, Material)	Area Wiped (ft²)	Type ‡ A/B/P/E	Time of Sampling Start	Time of Sampling Stop	Flow Rate (L/min) Start	Flow Rate (L/min) Stop	Total Vol. (L)	SELC USE ONLY #	SELC USE ONLY Cond
29-3	4-22-19	Ceiling texture - Rooms 101-120 & 201-220								29-3	C
29-4		↓								29-4	C
29-5										29-5	C
29-6										29-6	C
29-7		↓								29-7	C
30-1		Drywall, joint compound & tape								30-1	C
30-2		↓ Rooms	151-160	& 251-260						30-2	C
30-3		↓								30-3	C
31-1		Black cove base & brown adhesive - Rooms 151-160 & 251-								31-1 thru 31-2	C
31-2		↓								31-2	C
31-3		↓								31-3	C
32-1		Ceramic floor tile mortar & grout - Rooms 151-160 & 251-								32-1 thru 32-3	C
32-2		↓ mortar - attached to tile								32-2	C
32-3		↓ grout - gray								32-3	C

‡ A - Area, B - Blank, P - Personal, E - Excursion

Sampled By:
Signature: [signature]

Relinquished by:

Signature	Date	Time
[signature]	4-23-19	1440

Received By:

Signature	Date	Time
[signature]	4-23-19	2:40pm

Safety Environmental Laboratories and Consulting, Inc.

989 Yeager Pkwy. Phone: (205) 823-6200
Pelham, AL 35124 Fax: (205) 823-9066

Environmental, Health, and Safety Solutions

Chain of Custody Form

Customer: Kyle Haggard - Building & Earth
Address: 5545 Derby Drive
Birmingham, AL 35210
Phone: 205-836-6300 Fax:
E-mail: khaggard@buildingandearth.com

Project Number: BH190118
Project Name: 2510 Crestwood Blvd
Project Location: Irondale, AL
PO Number:
SELC Proj. #: 19-0923

Sample Type
- [ ] Air
- [X] Bulk
- [ ] Paint
- [ ] Soil
- [ ] Waste
- [ ] Other:

Asbestos Analysis
- [ ] Asbestos Air - PCM
- [ ] Asbestos Air - TEM
- [X] PLM (EPA 600/R-93/116)
- [ ] PLM (EPA Point Count)
- [ ] Other:

Metals Analysis
- [ ] Total Conc. - Lead
- [ ] Total Conc. - RCRA 8-Metals
- [ ] TCLP - Lead
- [ ] TCLP - RCRA 8-Metals
- [ ] TCLP - Full (w/ organics)
- [ ] Other:

Turn-Around Time*
- [ ] Rush/Same Day†
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 3 Business Days
- [ ] 4 Business Days
- [X] Other: 5 Business Days

- Field blanks should be submitted with all samples -

* *Some TAT not available for all tests. Must schedule rush organics, multi-metals, and weekend tests in advance.*
† *Same day not available after 2:00 PM*

Sample #	Date Sampled	Sample Description (e.g. Employee Name, SSN, Bldg, Material)	Area Wiped (ft²)	Type ‡ A/B/P/E	Time of Sampling Start	Time of Sampling Stop	Flow Rate (L/min) Start	Flow Rate (L/min) Stop	Total Vol. (L)	SELC USE ONLY #	SELC USE ONLY Cond
33-1	4-22-19	Vinyl sheet flooring - kitchen area - Rooms 151 - 160 & 251 - 260								33-1	C
33-2		↓								33-2	C
33-3		↓								33-3	C
34-1		Ceiling texture - Rooms 151-160 & 251-260								34-1	C
34-2		↓								34-2	C
34-3		↓								34-3	C
34-4		↓								34-4	C
34-5		↓								34-5	C
34-6		↓								34-6	C
34-7		↓								34-7	C
35-1		Asphalt roofing & felt paper - Roof of pool building								35-1	C
35-2		↓								35-2	C
35-3		↓								35-3	C

‡ A - Area, B - Blank, P - Personal, E - Excursion

Sampled By:
Signature

Relinquished by:

Signature	Date	Time
	4-23-19	1440

Received By:

Signature	Date	Time
	4-23-19	2:40 pm

APPENDIX G
ADEM 10-DAY NOTIFICATION

STATE OF ALABAMA

NESHAPS# _____

Department of Environmental Management
Notice of Demolition and/or Asbestos Removal

Reason: ☐Original ☐Courtesy ☐Cancelled ☐Postponed ☐Annual ☐Revision #____

1. **Facility Name** _____ **County** _____
   Street Address _____ **Project No.** _____
   City _____ **State** ____ **Zip** _____ **Site Surveyed By** _____
   Building Size (SF) _____ **# of Floors** _____ **Age** _____ **Prior Use** _____
   Contact Person _____ **Phone (_____)** _____
   Exact Removal Site (room, floor, building, wing, unit, machine, deck) _____
   _____

2. **Facility Owner** _____ **Phone (_____)** _____
   Address _____ **City** _____ **State** ____ **Zip** _____

3. **Contractor's (Company) Name** _____
   Address _____ **City** _____ **State** ____ **Zip** _____
   Phone (_____) _____ **Alabama Certification No.** _____
   Site Contact _____ **Phone (_____)** _____

4. **THIS (Check)** ☐IS A RENOVATION ☐IS A DEMOLITION ☐HAS NO ASBESTOS ☐IS ORDERED

Removal Dates		Demolition Dates	
Start _____	Finish _____	Start _____	Finish _____
Start _____	Finish _____	Start _____	Finish _____
Start _____	Finish _____	Start _____	Finish _____
Start _____	Finish _____	Start _____	Finish _____

Days : ☐Sun ☐Mon ☐Tue ☐Wed ☐Thu ☐Fri ☐Sat ☐All **Work Hours** _____
Emergency reason(s) for not complying with 10-day notification requirement: _____
_____

5. **REMOVAL/DEMOLITION PROCEDURES TO BE USED. (Check all that apply)**

☐Strip & Removal ☐Glove Bag ☐Heavy Equipment ☐Wrecking Ball ☐Burning*

☐Dry Method* ☐Wet Method ☐Remove Intact ☐Explode (*Contact ADEM for requirements)

6. **AMOUNT(S) AND TYPE(S) OF ACM.**

	FRIABLE? Yes	FRIABLE? No	REMAIN IN BLDG? Yes	REMAIN IN BLDG? No	DETECTION METHOD(S)
_____ Square Feet Surface Mat	☐	☐	☐	☐	_____
_____ Linear Feet Pipe	☐	☐	☐	☐	_____
_____ Square Feet Transite	☐	☐	☐	☐	_____
_____ Square Feet VAT	☐	☐	☐	☐	_____
_____ Square Feet Asphalt Roof	☐	☐	☐	☐	_____
_____ Other _____	☐	☐	☐	☐	_____

7. **Waste Disposal Site** _____
   Address _____ **City** _____ **State** ____ **Zip** _____
   Contact _____ **Phone (_____)** _____ **Permit Number** _____

8. **Waste Transporter Name** _____ **Phone (_____)** _____
   Address _____ **City** _____ **State** ____ **Zip** _____

9. **Procedure(s) for unexpected ACM?** _____

I certify that the above information is correct.

Signature _____ **Date** _____ **Phone (_____)** _____

WHO MUST SUBMIT A NOTIFICATION FORM?

Regulations require that someone (usually a contractor, property owner or consultant) submit a notification to the appropriate agency 10 weekdays prior to disturbing any regulated asbestos-containing material (RACM) or beginning demolition. Specifically, a notification must be submitted if one of the three following situations exists:

1. It is a renovation project and at least 260 linear feet or 160 square feet or 35 cubic feet of RACM is to be removed.
2. It is a demolition project with or without asbestos-containing material (ACM).
3. A structure is going to be burned for fire training.

WHAT IS REGULATED ASBESTOS-CONTAINING MATERIAL?

RACM has greater than 1% asbestos by weight and includes friable and nonfriable forms. ("Friable" means that it can be crushed to powder by hand pressure.) RACM can include: (1) Friable ACM, such as pipe and elbow insulation, storage vessel insulation, and spray-applied applications such as fireproofing, soundproofing, or decoration. (2) Category I nonfriable ACM such as vinyl floor tile and mastic, asphalt roofing products, gaskets and packing which have become friable or will be subject to sanding, grinding, cutting or abrading. *Please be aware that some older sheet vinyl (linoleum) has an asbestos-containing felt backing which can turn to powder (become friable) under certain circumstances. You must be careful with it.* (3) Category II nonfriable ACM such as transite and cementitious siding or roofing which have a high probability of becoming crumbled, pulverized, or reduced to powder during renovation or demolition activities.

WHAT ARE SOME OTHER REGULATORY REQUIREMENTS?

A structure must be surveyed by a licensed inspector before renovation or demolition or burning for training. Friable and Category II nonfriable ACM must be removed from a structure before demolishing it. Category I nonfriable ACM can usually be left in the structure during demolition, if no materials are going to be recycled. Friable ACM must be wetted before, during and after removal until soaked through. It should be containerized while wet and properly labeled. Friable ACM must be disposed of as special waste, regardless of amount. Nonfriable ACM can usually be disposed of as general or construction waste. It is best to check with the landfill or waste hauler first. Removed Category II nonfriable ACM must be disposed of separately. RACM must be removed by an organization certified by the Alabama Department of Environmental Management (ADEM). *(NOTE: All ACM must be removed from a structure before burning for training.)*

ARE THERE ANY EXEMPTIONS?

Residential buildings of 4 or less units that remain residential property are exempt from asbestos regulations, but they must comply with disposal regulations. (This residential exemption puts homeowners at risk!)

HOW ARE NOTIFICATIONS SUBMITTED?

Original notifications may be sent by U.S. Mail, special delivery service, hand-delivered or by e-mail (most common method). Revisions to notifications and courtesy notifications may be sent by facsimile transmission, but usually by e-mail. They must be sent to one of the 3 individuals/organizations below, depending upon the location of the renovation/demolition.

City of Huntsville:
Mr. Scott Cardno
Department of Natural Resources
and Environmental Management
City of Huntsville
P.O. Box 308
Huntsville, AL 35804-0308
PH: 256/427-5750
FAX: 427-5751
(Street Address)
320 Fountain Circle
Huntsville, AL 35801-4240
E-mail: Scott.Cardno@huntsvilleal.gov

Jefferson County (collects job fees):
Mr. Craig Tucker
Air and Radiation Protection Division
Jefferson County Department of Health
P.O. Box 2648
Birmingham, AL 35202-2648
PH: 205/930-1204
FAX: 939-3019
(Street Address:)
400 6th Avenue South
Birmingham, AL 35233-1598
E-mail: craig.tucker@jcdh.org

All other areas:
Mr. Don Barron
ADEM—Air Division
P.O. Box 301463
Montgomery, AL 36130-1463
PH: 334/271-7879
FAX: 279-3044)
(Street Address:)
1400 Coliseum Boulevard
Montgomery, AL 36110-2059
E-mail: asbestosmail@adem.alabama.gov