



LIMITED ASBESTOS INSPECTION REPORT

FOR

CLIENT

**District Five Schools of Spartanburg County
100 N Danzler Road
Duncan, SC 29334**

LOCATION

**James F. Byrnes High School- Phase III Demo. Project
150 E. Main Street
Duncan, SC 29334**

**INSPECTION DATE(S): November 6 & 7, 2023; January 3 & 15, 2024
REPORT DATE: January 26, 2024**

INSPECTOR(S)

**Haley Jones – SC-DHEC License #BI-01733
(864) 541-8736**

**Evans Harris– SC-DHEC License #BI-01224
(864) 541-8736**

For

**Crossroads Environmental, LLC
1258 Boiling Springs Road
Spartanburg, South Carolina 29303
(864) 541-8736
CRE Project #23167-IN**

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January 26, 2024

Dr. Greg Wood
District Five Schools of Spartanburg County
100 N Danzler Road
Duncan, SC 29334

Re: Limited Asbestos Inspection Report
Byrnes High School- Phase III Demolition Project
150 E. Main St., Duncan, SC 29334
CRE Project Number: 23167-IN

Dear Dr. Wood:

Crossroads Environmental, LLC (CRE) performed a limited asbestos inspection of areas included in the 'Phase III Demolition Project' for James F. Byrnes High School located at 150 E. Main Street in Duncan, South Carolina. Sampling was performed on November 6 & 7, 2023 and January 3 & 15, 2024 by SC-DHEC Licensed Asbestos Inspectors, and in accordance with South Carolina Department of Health and Environmental Control (SC-DHEC) and Environmental Protection Agency (EPA) Requirements. **A detailed summary table of the sampling is included in Attachment I; however, this report should be read in its entirety.**

Building Description

CRE's scope of work was limited to sampling suspect asbestos-containing materials which are to be disturbed during Phase III Demolition activities associated with the 100, 200, and 600 wing(s) of James F. Byrnes High School. Interior features of these areas include concrete masonry unit (CMU) walls throughout with intermittent brick and drywall walls. Flooring is predominately 12"x12" vinyl floor tile with limited areas of 9"x9" vinyl floor tile in few classrooms and the 200-wing teacher's lounge; and carpet in offices. However, restrooms were noted as having non-suspect ceramic flooring, and brick flooring throughout the lobby of the main office. Ceiling tiles in a drop grid system exist throughout, excluding textured plaster ceilings present in the auditorium and above the drop ceiling of the main hallway.

Exterior features in proposed areas of demolition include brick siding with limited areas of stucco over plaster around windows, ceiling of walkways, and on the face of the main office. Suspect caulking was identified around all windows and doors of 100, 200, and

600-wings; however, glazing around two (2) windows of the 200/201 classroom hallway could not be accessed due to ongoing construction. Thus, this material is assumed to be asbestos-containing. Additionally, built-up roofing systems exist in all areas included in Phase III Demolition plans; excluding parts of the 100-wing which features TPO over corrugated decking.

Inspection Strategy/Sampling Protocol

The inspection consisted of grouping suspect asbestos containing materials into homogeneous areas based on the color and texture of the material, and then performing representative sampling of the materials included in those homogeneous areas. SC-DHEC has requirements for the minimum number of samples that can be collected from each homogeneous area (three samples of each miscellaneous material, three samples of each type of thermal system insulation, and the sample requirements for surfacing are based on square footage).

Following completion of the on-site inspection/sampling, samples were submitted to an accredited laboratory for analysis. Stop positive analysis was requested on all materials except for surfacing (sprayed-on or troweled-on materials such as joint compound and fireproofing).

Results

EPA recognizes a material as Asbestos Containing Material (ACM) if an asbestos content of greater than one percent asbestos is detected in a representative sample analyzed by polarized light microscopy.

Results indicated that greater than one percent asbestos was detected in the following materials (see table for locations and quantities):

HA05: 9" beige vinyl floor tile w/ gray streaks and associated mastic.

HA11: Mastic beneath 12" royal blue vinyl floor tile w/ white streaks.

HA12: Mastic beneath 12" dark gray vinyl floor tile w/ blue streaks.

HA13: Mastic beneath 12" tan vinyl floor tile w/ tan streaks.

HA23: Interior window caulk around media center office windows.

HA25: Black chalkboard mastic located in room 213, but may be in other areas.

HA32: Black mastic on roof drain of the former 700 hallway.

HA44: Mastic beneath 12" beige vinyl floor tile w/ tan streaks.

HA45: Mastic beneath 12" yellow vinyl floor tile.

HA60: Mastic beneath 12" blue/gray vinyl floor tile (Room 200 only).

HA66: Black mastic coating around steel piping of the 600 hallway.

HA70: Interior window caulk around two (2) windows of the 200/201 hallway.

HA72: Expansion caulk at the double doors leading to the 600 hallway.

HA73: Interior door caulk around doors of 200, 201, 200 storage, 600, 601, 602, auditorium door in 600 hallway, double doors of 600 hall, and book room.

HA76: Gray window caulk around individual panes of rooms 200, 201, and 600 classrooms.

HA77: Exterior door caulk around the border of the exterior auditorium door.

HA81: Built-up roofing of the flat roof section to the immediate south of the Media Center (see highlighted sketch).

HA82: Perimeter and equipment flashing on the HA81 roof section.

HA86: Perimeter flashing brick flashing on the north, east and south sides of Auditorium (see highlighted sketch).

HA87: Equipment curb and hatch flashing around HVAC equipment curb(s) and roof hatch of Auditorium roof.

HA89: Built-up roofing on the barrel section of the Auditorium roof.

HA90: Perimeter flashing on perimeters of flat roof sections, and north and south ends of barrel roof section on Auditorium roof.

Relevant Regulatory Requirements/Recommendations

Friability- Friable materials are defined as materials that can be reduced to powder by hand pressure. It should be noted that non-friable materials may become friable depending on the method of removal. All non-friable materials must be removed by properly accredited asbestos personnel and in accordance with all state and federal regulations. If the non-friable materials are removed in a friable manner, then all regulations in regard to friable abatement will apply, and the abatement must be performed by a SC-DHEC Licensed Asbestos Contractor.

Project Design- A Project Design, written by a SC-DHEC Licensed Project Designer, will be required on this project.

Air Monitoring- Air monitoring by a SC-DHEC Licensed Air Monitor will be required on this project

All ACM should be removed by a SC-DHEC Licensed Asbestos Abatement Contractor and disposed of in an approved landfill.

Closing Statements and Limitations

Every effort was made to identify all materials in accessible areas. There is the possibility that suspect materials were not identified in inaccessible areas. If any suspect material is discovered that is not included within this report, it should be sampled before it is physically disturbed.

This document has been prepared by Crossroads Environmental, LLC at the request of and for the exclusive use of District Five Schools of Spartanburg County. This report represents the findings from the date that it was inspected, and is limited in scope to that indicated above.

Crossroads Environmental, LLC appreciates the opportunity to provide District Five Schools of Spartanburg County with our consultative services. Should you have any questions or need additional information, please do not hesitate to contact us.

Sincerely,



Haley Jones
Licensed Inspector



Evans Harris
Licensed Inspector



Kay H. Horton
President

Attachments- (4)

ATTACHMENT I
ASBESTOS SUMMARY TABLE

CROSSROADS ENVIRONMENTAL, LLC ASBESTOS INSPECTION REPORT								CRE JOB #: 23167-IN	
Location:		James F. Byrnes HS- Phase III Demo; 150 E Main St, Duncan, SC 29334							
Client:		District Five Schools of Spartanburg County						DATE: November 23' & Jan. 24'	
Key: A=Amosite, C=Chrysotile, Cr=Crocidolite, Tr=Tremolite, Ac=Actinolite Asbestos, Misc.=Miscellaneous, HA#=Homogeneous Area #, PLM=Polarized Light Microscopy, TEM=Transmission Electron Microscopy, /=PLM and/or TEM Analysis Not Required sq.ft.=Square Feet, cu.ft.=Cubic Feet, In.ft.=Linear Feet, HJI=Hard Joint Insulation, TSI=Thermal System Insulation, BUR=Built-up Roofing, Surf=Surfacing NAD=No Asbestos Detected, SP=Stop Positive									
HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
01	Misc.	12"x12" Off-White Vinyl Floor Tile w/ Gray Streaks	001-Tile 001-Mastic	NAD NAD	/ /	101	N/A	N/A	Located in the 100 hallway, 105, 102, 100, 100/102 shared room, 103 103/105 shared room, 101 & associated rooms, 114, 111, 113, 120, 112, and 100 server room.
			002-Tile 002-Mastic	NAD NAD	/ /	102			
			003-Tile 003-Mastic	/ /	NAD NAD	100 Electrical			
02	Misc.	Carpet Square Glue	004	NAD	/	100 Hallway Entry	N/A	N/A	Located at entry doorways over HA01.
			005	NAD	/	100 Hallway Entry			
			006	/	NAD	100 Hallway Entry			
03	Misc.	2'x2' Ceiling Tile w/ Pinholes & Gashes	007	NAD	/	101	N/A	N/A	Located throughout.
			008	NAD	/	21121			
			009	NAD	/	Media Center			

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
04	Misc.	2'x2' Ceiling tile w/ Pinholes & Squiggles	010	NAD	/	Hallway @ 100	N/A	N/A	Located throughout.
			011	NAD	/	Hallway @215			
			012	NAD	/	Hallway @ Media Center			
05	Misc.	9"x9" Beige Vinyl Floor Tile w/ Gray Streaks	013-Tile 013-Mastic	3% C 5% C	/ /	211	2,500 sq. ft.	Good; Non- Friable	Located in the 200 teacher's lounge, 211, 213, and 215.
			014-Tile 014-Mastic	SP SP	/ /	Treacher's Lounge			
			015-Tile 015-Mastic	/ /	SP SP	215			
06	Misc.	12"x12" Gray Vinyl Floor Tile w/ Gray Streaks	016-Tile 016-Mastic	NAD NAD	/ /	206 Office	N/A	N/A	Located in the foyer of 206, 206 @ associated rooms, 204 and associated rooms, 204/205 shared foyer, guidance records room, and guidance copy room.
			017-Tile 017-Mastic	NAD NAD	/ /	204			
			018-Tile 018-Mastic	/ /	NAD NAD	205			

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
07	Misc.	Light Gray Cove Base	019-Cove Base 019-Mastic	NAD NAD	/ /	Guidance- Main Area	N/A	N/A	Located in the foyer of 206, 206 & associated rooms, 204 and associated rooms, 204/205 shared foyer, guidance hallways, and guidance main area.
			020-Cove Base 020-Mastic	NAD NAD	/ /	Guidance- Main Area			
			021-Cove Base 021-Mastic	/ /	NAD NAD	Guidance- Main Area			
08	Misc.	Black Lab Tables	Not Sampled Due to Current Occupation						Located in 206, 204, 210, 212, 214, 105, 102, 100, 100/102 shared room, 103, 103/105 shared room, 101 and associated rooms, and 112.
09	Misc.	Black Cove Base w/ Brown Mastic	025-Cove Base 025-Mastic	NAD NAD	/ /	101	N/A	N/A	Located in the faculty work room, entryway of the media center, 102, 100, 100/102 shared room, 103, 105, 103/105 shared room, 101 and associate rooms, and 112.
			026-Cove Base 026-Mastic	NAD NAD	/ /	100			
			027-Cove Base 027-Mastic	/ /	NAD NAD	112			

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10	Misc.	12"x12" Robins Egg Blue Vinyl Floor Tile w/ Sky Blue Streaks	028-Tile 028-Mastic	NAD NAD	/	Media Center	N/A	N/A	Located in the entryway of the media center.
			029-Tile 029-Mastic	NAD NAD	/	Media Center			
			030-Tile 030-Mastic	/	NAD NAD	Media Center			
11	Misc.	12"x12" Royal Blue Vinyl Floor Tile w/ White Streaks	031-Tile 031-Mastic	NAD 3% C	/	Former 300 Hallway	50 sq. ft.	Good; Non- Friable	Located at entrance to former 300 hallway.
			032-Tile 032-Mastic	NAD SP	/	Former 300 Hallway			
			033-Tile 033-Mastic	/	NAD SP	Former 300 Hallway			
12	Misc.	12"x12" Dark Gray Vinyl Floor Tile w/ Blue Streaks	034-Tile 034-Mastic	NAD 3% C	/	Former 300 Hallway	24 sq. ft.	Good; Non- Friable	Located at entrance to former 300 hallway.
			035-Tile 035-Mastic	NAD SP	/	Former 300 Hallway			
			036-Tile 036-Mastic	/	NAD SP	Former 300 Hallway			

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13	Misc.	12"x12" Tan Vinyl Floor Tile w/ Tan Streaks	037-Tile 037-Mastic	NAD 2% C	/ /	300 Hallway @ Exit	965 sq. ft.	Good; Non- Friable	Located at entrance to former 300 & 700 hallways.
			038-Tile 038-Mastic	NAD SP	/ /	700 Hallway			
			039-Tile 039-Mastic	/ /	<1% C SP	700 Hallway			
14	Misc.	Carpet Square Glue	040	NAD	/	Guidance Office	N/A	N/A	Located in guidance, excluding the copy room, records, and career specialist office (over HA20); and media center and associated offices, and A.V. production rooms.
			041	NAD	/	Counselor			
			042	/	NAD	Media Center			
15	Surf.	Drywall/Joint Compound	043-Joint Compound 043-Drywall	NAD NAD	/ /	101	N/A	N/A	Located throughout guidance walls, limited walls in media center and associated offices, enclosed around HVAC ductwork in 100 classrooms, and limited walls of 200 hallway at lockers.
			044-Joint Compound 044-Drywall	NAD NAD	/ /	100			
			045-Joint Compound 045-Drywall	NAD NAD	/ /	A.V. Production			
			046-Joint Compound 046-Drywall	NAD NAD	/ /	Media Center			
			047-Joint Compound 047-Drywall	NAD NAD	/ /	Media Center			

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15 (Cont.)	Surf.	Drywall/Joint Compound	048-Joint Compound 048-Drywall	NAD NAD	/	Counselor Office	N/A	N/A	Located throughout guidance walls, limited walls in media center and associated offices, enclosed around HVAC ductwork in 100 classrooms, and limited walls of 200 hallway at lockers.
			049-Joint Compound 049-Drywall	NAD NAD	/	Guidance Office			
16	Misc.	Dark Gray Cove Base	050-Cove Base 050-Mastic	NAD NAD	/	212	N/A	N/A	Located in 210, 212, 214, 100 server room, and limited areas of guidance.
			051-Cove Base 051-Mastic	NAD NAD	/	214			
			052-Cove Base 052-Mastic	/	NAD NAD	100 Server Room			
17	Misc.	2'x2' Ceiling Tile w/ Pinholes Larg Holes	053	NAD	/	Counselor Office	N/A	N/A	Located in guidance.
			054	NAD	/	Guidance Office			
			055	NAD	/	Guidance- Main Area			

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18	Misc.	Gray Duct Mastic	056	NAD	/	204	N/A	N/A	Located on ductwork of room 204, 206, and throughout guidance.
			057	NAD	/	206			
			058	/	NAD	Guidance- Main Area			
19	Misc.	Carpet Square Glue Beneath Royal Blue Carpet	059	NAD	/	Career Specialist Office	N/A	N/A	Located in the career specialist office over black mastic.
			060	NAD	/	Career Specialist Office			
			061	/	NAD	Career Specialist Office			
20	Misc.	Vinyl Floor Tile	062-Yellow Mastic	NAD	/	Guidance- Waiting Area	N/A	N/A	Located throughout guidance under carpet; excluding the career specialist office, copy room, and file room.
			062-Tile	NAD	/				
			062-Yellow,Black Mastic	NAD	/				
			063-Yellow Mastic	NAD	/	Guidance Office			
			063-Tile	NAD	/				
			063-Yellow,Black Mastic	NAD	/				
064-Yellow Mastic	/	NAD	Guidance Hallway @ Director's Office						
064-Tile	/	NAD							
064-Yellow,Black Mastic	/	NAD							

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21	Misc.	Dark Blue Cove Base	065-Cove Base 065-Mastic	NAD NAD	/	Media Center- Wall	N/A	N/A	Located throughout the media center and associated offices; and offices 116 & 118.
			066-Cove Base 066-Mastic	NAD NAD	/	Media Center- Wall			
			067-Cove Base 067-Mastic	/	NAD NAD	Media Center- Column			
22	Surf.	Plaster w/ Texture	068	NAD	/	Media Center	N/A	N/A	Located as columns and top portion of walls in the media center.
			069	NAD	/	Media Center			
			070	NAD	/	Media Center			
			071	NAD	/	Media Center			
			072	NAD	/	Media Center			
23	Misc.	Interior Window Caulk	073	3% C	/	Media Center	400 In. ft.	Good; Non-Friable	Located around interior of windows of media center offices.
			074	SP	/	Media Center			
			075	/	SP	Media Center			

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24	Misc.	Brownish-Gray Cove Base	076-Cove Base	NAD	/	111	N/A	N/A	Located at the base of 100 hallway lockers; and rooms 111 & 113.		
			076-Mastic	NAD	/						
			077-Cove Base	NAD	/	100 Hallway @ Lockers					
			077-Mastic	NAD	/						
			078-Cove Base	/	NAD	100 Hallway @ Lockers					
			078-Mastic	/	NAD						
25	Misc.	Black Chalkboard Mastic w/ Plaster	079-Mastic	5% C	/	213	105 sq. ft. (Room 213)	Unknown; Friable	Located in room 213; however, material may exist behind other chalkboards.		
			079-Plaster	NAD	/						
			080-Mastic	SP	/	213					
			080-Plaster	NAD	/						
			081-Mastic	SP	/	213					
			081-Plaster	NAD	/						
26	Misc.	Yellow Chalkboard Mastic w/ Backer & Plaster	082-Yellow Mastic	NAD	/	213	N/A	N/A	Located in room 213; however, material may exist behind other chalkboards.		
			082-Tan Backer	NAD	/						
			082-Yellow Mastic	NAD	/						
			082-Plaster	NAD	/	213					
			083-Yellow Mastic	NAD	/						
			083-Tan Backer	NAD	/						
			083-Yellow Mastic	NAD	/						
083-Plaster	NAD	/									
084-Yellow Mastic	/	NAD	213								
084-Tan Backer	/	NAD									
084-Yellow Mastic	/	NAD									
			084-Plaster	NAD	/						

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
27	Misc.	12"x12" Gray Vinyl Floor Tile w/ Off- White & Gray Streaks	085-Tile 085-Mastic	NAD NAD	/ /	214	N/A	N/A	Located in rooms 214, 212, and 210.
			086-Tile 086-Mastic	NAD NAD	/ /	212			
			087-Tile 087-Mastic	/ /	NAD NAD	210			
28	Misc.	12"x12" Green Vinyl Floor Tile	088-Tile 088-Mastic	NAD NAD	/ /	214	N/A	N/A	Located as bordering tile in rooms 214, 212, and 210.
			089-Tile 089-Mastic	NAD NAD	/ /	212			
			090-Tile 090-Mastic	/ /	NAD NAD	210			
29	Misc.	White Duct Mastic	091	NAD	/	204	N/A	N/A	Located around ductwork of rooms 204, 206, and guidance.
			092	NAD	/	206			
			093	/	NAD	206			

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
30	Misc.	Black Cove Base w/ Beige Mastic	094-Cove Base 094-Mastic	NAD NAD	/	210	N/A	N/A	Located in rooms 214, 212, and 210.
			095-Cove Base 095-Mastic	NAD NAD	/	212			
			096-Cove Base 096-Mastic	/	NAD NAD	214			
31	Misc.	Brown Cove Base	097-Cove Base 097-Mastic	NAD NAD	/	700 Hallway	N/A	N/A	Located in the former 700 hallway.
			098-Cove Base 098-Mastic	NAD NAD	/	701 Hallway			
			099-Cove Base 099-Mastic	/	NAD NAD	702 Hallway			
32	Misc.	Black Mastic	100	10% C	/	703 Hallway	20 sq. ft.	Good; Non-Friable	Located at roof drain above drop ceiling in the former 700 hallway.
			101	SP	/	704 Hallway			
			102	/	SP	705 Hallway			

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33	Misc.	2'x2' Gypsum Ceiling Tile	103	NAD	/	100 Girl's Restroom	N/A	N/A	Located in restrooms of the 100 and 200 hallway.
			104	NAD	/	200 Girl's Restroom			
			105	NAD	/	100 Boy's Restroom			
34	Surf.	Block Filler	106	NAD	/	Hallway @ 101	N/A	N/A	Located throughout; excluding where drywall and brick are present.
			107	NAD	/	700 Hallway			
			108	<1% C	/	Hallway @ 200 Custodial Closet			
			109	NAD	/	Hallway @ 206			
			110	NAD	/	204			
			111	NAD	/	Hallway @ Guidance Conference Room			
			112	NAD	/	Guidance- Server Room			

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
35	Misc.	Carpet Glue Beneath Dark Blue Carpet	113	NAD	/	Guidance- Waiting Area	N/A	N/A	Located in limited area of guidance over HA20.
			114	NAD	/	Guidance- Waiting Area			
			115	/	NAD	Guidance- Waiting Area			
36	Misc.	Brown Duct Mastic	116	NAD	/	101	N/A	N/A	Located on ductwork of 100 classrooms.
			117	NAD	/	103			
			118	/	NAD	105			
37	Misc.	Red Duct Mastic	119	NAD	/	101	N/A	N/A	Located on ductwork of 100 classrooms, enclosed by drywall.
			120	NAD	/	103			
			121	/	NAD	105			

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
38	Surf.	Blown Fireproofing	122	NAD	/	100	N/A	N/A	Located above drop ceilings of the 100 hallway, and media center hallway.
			123	NAD	/	101			
			124	NAD	/	102			
			125	NAD	/	103			
			126	NAD	/	104			
			127	NAD	/	105			
			128	NAD	/	Hallway @ 101			
39	Misc.	Expansion Caulk	129	NAD	/	100 Hallway	N/A	N/A	Located at expansion joints of 100 and former 700 hallways.
			130	NAD	/	101 Hallway			
			131	/	NAD	102 Hallway			

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
40	Misc.	12"x12" Off-White Vinyl Floor Tile w/ Gray Streaks	132-Tile 132-Mastic	NAD NAD	/ /	Top of Ramp @ Admin.	N/A	N/A	Located in the front stairwell area at Administrative Offices; 600 hallway; Administrative Lounge; and rooms of Auditorium.
			133-Tile 133-Mastic	NAD NAD	/ /	Hallway @ Entry to 600 Hall			
			134-Tile 134-Mastic	/ /	NAD NAD	Administrative Lounge			
41	Misc.	Brownish-Gray Cove Base	135-Covebase 135-Mastic	NAD NAD	/ /	At Northwest Exit Door	N/A	N/A	Located in the front stairwell area at Administrative Offices; and Auditorium.
			136-Covebase 136-Mastic	NAD NAD	/ /	Entry to 200 Hall			
			137-Covebase 137-Mastic	/ /	NAD NAD	Auditorium			
42	Misc.	Blue Stair Tread	138-Tread 138-Mastic	NAD NAD	/ /	Stairs @ Administrative Offices	N/A	N/A	Located in the front stairwell area at Administrative Offices.
			139-Tread 139-Mastic	NAD NAD	/ /	Stairs @ Administrative Offices			
			140-Tread 140-Mastic	/ /	NAD NAD	Stairs @ Administrative Offices			

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43	Misc.	2'x2' Ceiling Tile w/ Pinholes & Gashes	141	NAD	/	Hallway @ Administrative Offices	N/A	N/A	Located throughout; excluding restrooms and Room 600.
			142	NAD	/	Hallway @ Administrative Offices			
			143	NAD	/	Hallway @ Administrative Offices			
44	Misc.	12"x12" Beige Vinyl Floor Tile w/ Tan Streaks	144-Tile 144-Mastic	NAD 2% C	/ /	200 Entryway	765 sq. ft.	Good; Non- Friable	Located in the shared hallway of Rooms 200/201.
			145-Tile 145-Mastic	NAD SP	/ /	200 Entryway			
			146-Tile 146-Mastic	/ /	<1% C SP	200 Hallway Exit			
45	Misc.	12"x12" Yellow Vinyl Floor Tile	147-Tile 147-Mastic 147-Leveling Compound	NAD 2% C NAD	/ / /	200	1,540 sq. ft.	Good; Non- Friable	Located in Rooms 200 & 201.
			148-Tile 148-Mastic 148-Leveling Compound	NAD SP SP	/ / /	200			
			149-Tile 149-Mastic 149-Leveling Compound	/ / /	NAD SP SP	201			

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46	Misc.	2'x2' Ceiling tile w/ Pinholes & Squiggles	150	NAD	/	200	N/A	N/A	Located throughout as replacement tiles.
			151	NAD	/	Hallway @ 600			
			152	NAD	/	Hallway @ Administrative Offices			
47	Misc.	Dark Gray Cove Base	153-Covebase 153-Mastic	NAD NAD	/ /	600	N/A	N/A	Located in 600 hallway and all 600 classrooms.
			154-Covebase 154-Mastic	NAD NAD	/ /	601			
			155-Covebase 155-Mastic	/ /	NAD NAD	603			
48	Misc.	12"x12" Gray Vinyl Floor Tile w/ Gray Streaks	156-Tile 156-Mastic	NAD NAD	/ /	600	N/A	N/A	Located in Rooms 600, 601 and associated rooms, 602, 603, and 610; and in 600 hallway past threshold at 602.
			157-Tile 157-Mastic	NAD NAD	/ /	601			
			158-Tile 158-Mastic	/ /	NAD NAD	602			

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
49	Misc.	12"x12" Sky Blue Vinyl Floor Tile	159-Tile	NAD	/	600	N/A	N/A	Located in Rooms 600, 601, 603, and 610 bordering HA48.
			159-Mastic	NAD	/				
			160-Tile	NAD	/	601			
			160-Mastic	NAD	/				
			161-Tile	/	NAD	603			
			161-Mastic	/	Insuff.				
50	Misc.	12"x12" Aqua Blue Vinyl Floor Tile	165-Tile	NAD	/	Northeast End of 600 Wing @ Stairs	N/A	N/A	Located at the base of stairs and ramp at the Northeast end of the 600 Hall.
			165-Mastic	NAD	/				
			165-Leveling Compound	NAD	/				
			166-Tile	NAD	/	Northeast End of 600 Wing @ Stairs			
			166-Mastic	NAD	/				
			167-Tile	/	NAD	Northeast End of 600 Wing @ Stairs			
			167-Mastic	/	NAD				
51	Misc.	12"x12" Royal Blue Vinyl Floor Tile	168-Tile	NAD	/	600 Hall Transition	N/A	N/A	Located in the 600 hallway threshold near Room 602.
			168-Mastic	NAD	/				
			169-Tile	NAD	/	600 Hall Transition			
			169-Mastic	NAD	/				
			170-Tile	/	NAD	600 Hall Transition			
			170-Mastic	/	NAD				

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52	Misc.	12"x12" Red Vinyl Floor Tile	171-Tile	NAD	/	602	N/A	N/A	Located as a pattern with HA48 and HA53 in Room 602.
			171-Mastic	NAD	/				
			172-Tile	NAD	/				
53	Misc.	12"x12" Black Vinyl Floor Tile	172-Mastic	NAD	/	602	N/A	N/A	Located as a pattern with HA48 and HA52 in Room 602.
			173-Tile	/	NAD				
			173-Mastic	/	<1% C				
54	Misc.	Carpet Glue Beneath Patterned Blue Carpet	174-Tile	NAD	/	602	N/A	N/A	Located in the office of Room 602.
			174-Mastic	NAD	/				
			175-Tile	NAD	/				
54	Misc.	Carpet Glue Beneath Patterned Blue Carpet	175-Mastic	NAD	/	602	N/A	N/A	Located in the office of Room 602.
			175-Leveling Compound	NAD	/				
			176-Tile	/	NAD				
54	Misc.	Carpet Glue Beneath Patterned Blue Carpet	176-Mastic	/	NAD	602	N/A	N/A	Located in the office of Room 602.
			177	NAD	/				
			178	NAD	/				
54	Misc.	Carpet Glue Beneath Patterned Blue Carpet	179	/	NAD	602 Office	N/A	N/A	Located in the office of Room 602.
			179	/	NAD				

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55	Surf.	Block Filler	180	NAD	/	Outside Nurse Office	N/A	N/A	Located throughout walls; except where drywall is present in limited areas.
			181	NAD	/	200 Storage			
			182	NAD	/	Hallway @ 200			
			183	NAD	/	600			
			184	NAD	/	Threshold @ 602			
			185	NAD	/	600			
			186	NAD	/	Open Area @ Northeast End of 600 Hall			
56	Surf.	Drywall/Joint Compound	187-Joint Compound 187-Drywall	NAD NAD	/	Outside Main Office	N/A	N/A	Located in limited areas.
			188-Joint Compound 188-Drywall	NAD NAD	/	Skylight @ 600			
			189-Joint Compound 189-Drywall	NAD NAD	/	601			

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
56 (Cont.)	Surf.	Drywall/Joint Compound	190-Joint Compound 190-Drywall	NAD NAD	/ /	Open Area @ Northeast End of 600 Hall	N/A	N/A	Located in limited areas.
			191-Joint Compound 191-Drywall	NAD NAD	/ /	Outside Women's Staff Restroom			
57	Misc.	12"x12" Dark Gray Vinyl Floor Tile	194-Tile 194-Mastic	NAD NAD	/ /	Open Area @ Northeast End of 600 Hall	N/A	N/A	Located in the open area at the Northeast end of 600 Hall.
			195-Tile 195-Mastic	NAD NAD	/ /	Open Area @ Northeast End of 600 Hall			
			196-Tile 196-Mastic	/ /	NAD NAD	Open Area @ Northeast End of 600 Hall			
58	Misc.	Gray Pebble- Patterned Vinyl Sheet Flooring	197-Flooring 197-Beige Mastic 197-Leveling Compound 197-Yellow Mastic	NAD NAD NAD NAD	/ / / /	Ramp @ Northeast End of 600 Hall	N/A	N/A	Located on the ramp of the open area at the Northeast end of 600 Hall.
			198-Flooring 198-Beige Mastic	NAD NAD	/ /	Ramp @ Northeast End of 600 Hall			
			199-Flooring 199-Beige Mastic	/ /	NAD NAD	Ramp @ Northeast End of 600 Hall			

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59	Surf.	Plaster & Ceiling Texture	200-Texture 200-Plaster	NAD NAD	/ /	Auditorium	N/A	N/A	Located throughout the Auditorium ceiling.
			201-Texture 201-Plaster	NAD NAD	/ /	Auditorium			
			202-Texture 202-Plaster	NAD NAD	/ /	Auditorium			
			203-Texture 203-Plaster	NAD NAD	/ /	Auditorium			
			204-Texture 204-Plaster	NAD NAD	/ /	Auditorium			
60	Misc.	12"x12" Blue/Gray Vinyl Floor Tile	205-Tile 205-Mastic	NAD 3% C	/ /	200	45 sq. ft.	Good; Non-Friable	<p>Located as replacement tiles at the Northwest end of the hallway near Administrative Offices; at the front of Room 200; and in the open area at the Northeast end of 600 Hall.</p> <p>*Note: Mastic beneath tile is only present in Room 200. All other rooms are NAD.</p>
			206-Tile 206-Mastic	NAD NAD	/ /	Northwest Exit Door			
			207-Tile 207-Mastic	NAD NAD	NAD -	Open Area @ Northeast End of 600 Hall			

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Key: A=Amosite, C=Chrysotile, Cr=Crocidolite, Tr=Tremolite, Ac=Actinolite Asbestos, Misc.=Miscellaneous, HA#=Homogeneous Area #, PLM=Polarized Light Microscopy, TEM=Transmission Electron Microscopy, /=PLM and/or TEM Analysis Not Required sq.ft.=Square Feet, cu.ft.=Cubic Feet, In.ft.=Linear Feet, HJI=Hard Joint Insulation, TSI=Thermal System Insulation, BUR=Built-up Roofing, Surf=Surfacing NAD=No Asbestos Detected, SP=Stop Positive									
HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
61	Misc.	Blue/Gray Cove Base	208-Covebase 208-Mastic	NAD NAD	/ /	Outside Nurse Office	N/A	N/A	Located throughout Administrative Offices and Main Office/Lobby.
			209-Covebase 209-Mastic	NAD NAD	/ /	Conference Room			
			210-Covebase 210-Mastic	/ /	NAD NAD	Outside Attendance Clerk			
62	Misc.	Carpet Glue Beneath Blue/ Multicolored Carpet	211	NAD	/	Outside Nurse Office	N/A	N/A	Located throughout Administrative Offices; excluding the lounge.
			212	NAD	/	Conference Room			
			213	/	NAD	Outside Attendance Clerk			
63	Misc.	Gray Stair Tread	214-Tread 214-Mastic	NAD NAD	/ /	Stairs @ Northeast End of 600 Wing	N/A	N/A	Located on the stairwell at the Northeast end of 600 Hall.
			215-Tread 215-Mastic	NAD NAD	/ /	Stairs @ Northeast End of 600 Wing			
			216-Tread 216-Mastic	/ /	NAD NAD	Stairs @ Northeast End of 600 Wing			

CROSSROADS ENVIRONMENTAL, LLC ASBESTOS INSPECTION REPORT								CRE JOB #: 23167-IN	
Location:		James F. Byrnes HS- Phase III Demo; 150 E Main St, Duncan, SC 29334							
Client:		District Five Schools of Spartanburg County						DATE: November 23' & Jan. 24'	
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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
64	Misc.	12"x12" Ceiling Tile w/ Hockey Puck Mastic	217-Tile	NAD	/	Outside Main Office	N/A	N/A	Located above drop ceiling in the front stairwell area near Administrative Offices.
			217-Mastic	NAD	/				
			217-Plaster	NAD	/				
			218-Tile	NAD	/	Outside Main Office			
			218-Mastic	NAD	/				
			218-Plaster	NAD	/				
219-Tile	NAD	/	Outside Main Office						
219-Mastic	/	NAD							
219-Plaster	NAD	/							
65	Misc.	Peanut Butter Mastic	220	NAD	/	600 Equipment Room	N/A	N/A	Located at seams of ductwork throughout. *Note: Material is visible in 603, 610, and the Northeast end of the 600 Hallway; however, it is assumed to exist beneath fiberglass insulation around ductwork throughout.
			221	NAD	/	600 Equipment Room			
			222	/	NAD	600 Equipment Room			
66	Misc.	Black Mastic	223	3% C	/	600 Equipment Room	75 In. ft.	Good; Non- Friable	Located as a coating around steel piping in the 600 Hall Equipment Room and running the length of the adjacent hallway (see sketch).
			224	SP	/	600 Equipment Room			
			225	/	SP	600 Equipment Room			

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
67	Surf.	Gray Spray-Applied Fireproofing	226	NAD	/	600 Equipment Room	N/A	N/A	Located where ceiling and wall meet in limited areas of the 600 Hlal Equipment Room.
			227	NAD	/	600 Equipment Room			
			228	NAD	/	600 Equipment Room			
			229	NAD	/	600 Equipment Room			
			230	NAD	/	600 Equipment Room			
68	Misc.	2'x2' Ceiling Tile w/ Pinholes	231	NAD	/	Open Area @ Northeast End of 600 Hall	N/A	N/A	Located throughout as replacement tiles.
			232	NAD	/	Open Area @ Northeast End of 600 Hall			
			233	NAD	/	Open Area @ Northeast End of 600 Hall			
69	Misc.	2'x2' Gypsum Ceiling Tile	234	NAD	/	Women's Staff Restroom	N/A	N/A	Located in restrooms.
			235	NAD	/	Women's Staff Restroom			
			236	NAD	/	Women's Staff Restroom			

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
70	Misc.	Interior Window Caulk	237-Surfacing Material 237-Caulk	2% C <1% C	/ /	200 Hallway	8.5'x3' (2) = 46 in. ft.	Good; Non- Friable	Located around the interior border of 200/201 hallway windows.
			238-Surfacing Material 238-Caulk	2% C <1% C	/ /	200 Hallway			
			239-Surfacing Material 239-Caulk	2% C /	/ 1.1% C	200 Hallway			
71	Misc.	Thin Interior Glaze	240	<1%C	/	200 Hall	N/A	N/A	Located around individual panes of 200/201 hallway windows.
			241	<1%C	/	201 Hall			
			242	/	<1% C	202 Hall			
72	Misc.	Expansion Caulk	243 Caulk	NAD	/	At Double Doors to 600 Hall	16 in. ft.	Good; Non- Friable	Located at expansion joint of 600 hallway near double doors that start the 600 hall, where brick and block meet.
			244 Caulk 244 Mud	NAD 2%C	/ /	At Double Doors to 600 Hall			
			245	S/P	/	At Double Doors to 600 Hall			

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
73	Misc.	Interior Door Caulk (Thick)	246 Caulk 246 Mud	NAD 2%C	/	602	7'x3' (19) 7'x6' (3)	Good; Non- Friable	Located around doors of 200, 201, 200 storage, 600, 601, 602, auditorium door (600 hall), 600 book room, and double doors to 600 hall.
			247	S/P	/	Auditorium Door @ 601			
			248	S/P	/	600			
74	Misc.	Interior Door Caulk (Thin)	249	NAD	/	605 @ Exit Door	N/A	N/A	Located around all other doors within the 600 hall, main office, auditorium doors, and administrative offices.
			250	NAD	/	Exit Door at Admin. Offices			
			251	/	NAD	605			
75	Misc.	Gray Putty-Like Door/Window Caulk	252	NAD	/	Exterior	N/A	N/A	Located around the exterior border of windows and doors of the 100/200 building.
			253	NAD	/	Exterior			
			254	/	NAD	Exterior			

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
76	Misc.	Gray Window Caulk	255	NAD	/	Exterior	8'x2.5' (10)	Good; Non-Friable	Located around individual panes of rooms 200 & 201, and 600 classrooms .
			256	5%C	/	Exterior			
			257	S/P	/	Exterior			
77	Misc.	Exterior Door Caulk	258	2%C	/	Auditorium Side Exit Door	7'x6' (1)	Good; Non-Friable	Located around the exterior border of the auditorium door which leads outside.
			259	S/P	/	Auditorium Side Exit Door			
			260	S/P	/	Auditorium Side Exit Door			
78	Surf.	Exterior Stucco	261 Skim	NAD	/	Exterior	>5,000 sq. ft.	N/A	Located around the exterior of the main office building; around exterior windows of all included classrooms; and as the ceiling of the walkway leading from the main office.
			261 Base	NAD	/				
			262 Skim	NAD	/	Exterior			
			262 Base	NAD	/				
263 Skim	NAD	/	Exterior						
263 Base	NAD	/							
264 Skim	NAD	/	Exterior						
264 Base	NAD	/							

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments		
78 (Cont.)	Surf.	Exterior Stucco	265 Skim	NAD	/	Exterior	>5,000 sq. ft.	N/A	Located around the exterior of the main office building; around exterior windows of all included classrooms; and as the ceiling of the walkway leading from the main office.		
			265 Base	NAD	/						
			266 Skim	NAD	/						
			266 Base	NAD	/	Exterior					
			267 Skim	NAD	/	Exterior					
			267 Base	NAD	/						
79	Misc.	Built-Up Roofing Over Lightweight Concrete	301 Felt	NAD	/	See Sketch	N/A	Good; Non-Friable	Located over limited 100 wing roof sections.		
			301 Tar	NAD	/						
			301 Fiberboard	NAD	/						
			301 Insulation	NAD	/						
			301 Insulation	NAD	/						
			302 Felt	NAD	/	See Sketch					
			302 Tar	NAD	/						
			302 Fiberboard	NAD	/						
			302 Insulation	NAD	/						
			302 Insulation	NAD	/						
			303 Felt	/	<1%C	See Sketch					
			303 Tar	/	<1%C						
303 Fiberboard	NAD	/									
303 Insulation	NAD	/									
303 Insulation	NAD	/									

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
80	Misc.	Equipment Flashing	304 Flashing 304 Fiberboard	NAD NAD	/ /	See Sketch	N/A	Good; Non- Friable	Located on HA79 roof sections equipment.
			305 Flashing 305 Fiberboard	NAD NAD	/ /	See Sketch			
			306 Flashing 306 Fiberboard	/ NAD	<1%C /	See Sketch			
81	Misc.	Built-Up Roofing Over Metal Decking	307 Tar 307 Fiberboard 307 Insulation	30%C NAD NAD	/ / /	See Sketch	2,400 sq. ft.	Good; Non- Friable	Located on flat roof section to the immediate south of the Media Center (see highlighted sketch).
			308	S/P	/	See Sketch			
			309	S/P	/	See Sketch			
82	Misc.	Perimeter & Equipment Flashing	310 Silver Paint 310 Flashing 310 Insulation	2%C 30%C NAD	/ / /	See Sketch	72 In. ft.	Good; Non- Friable	Located on the HA81 roof section (see highlighted sketch).
			311	S/P	/	See Sketch			
			312	S/P	/	See Sketch			

CROSSROADS ENVIRONMENTAL, LLC ASBESTOS INSPECTION REPORT	CRE JOB #: 23167-IN
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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
83	Misc.	TPO Foam Layer	313 Foam 313 Felt	NAD NAD	/ /	See Sketch	N/A	Good; Friable	Located on corrugated metal decking roof sections throughout 100 wing area(s).
			314 Foam 314 Felt	NAD NAD	/ /	See Sketch			
			315 Foam 315 Felt	NAD NAD	/ /	See Sketch			
84	Misc.	Gypsum Decking Core (Under Blue Foam)	316	NAD	/	See Sketch	N/A	Good; Non-Friable	Located on roof sections immediately adjacent the Auditorium on north and west sides.
			317	NAD	/	See Sketch			
			318	NAD	/	See Sketch			
85	Misc.	Built-Up Roofing Over Corrugated Metal	319 BUR 319 Gypsum	NAD NAD	/ /	See Sketch	N/A	Good; Non-Friable	Located on roof sections immediately adjacent the Auditorium on the east and south sides.
			320 BUR 320 Gypsum	NAD NAD	/ /	See Sketch			
			321 BUR 321 Gypsum	/ NAD	<1% /	See Sketch			

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
86	Misc.	Perimeter Flashing	322 Layer 1	NAD	/	South end	274 In. ft.	Good; Non-Friable	Located at brick flashing on the north, east and south sides of Auditorium (see highlighted sketch).
			322 Layer 2	3%C	/				
			323	S/P	/	South end			
			324	S/P	/	Southeast corner			
87	Misc.	Equipment Curb & Hatch Flashing	325	20%C	/	NW roof section	144 In. ft.	Good; Non-Friable	Located around HVAC equipment curb(s) and roof hatch of Auditorium roof.
			326	S/P	/	NW roof section			
			327	S/P	/	NW roof section			
88	Misc.	Built-Up Roofing (Flat Sections)	328 BUR Layer 1	NAD	/	South roof section	N/A	Good; Non-Friable	Located on flat sections of Auditorium roof.
			328 BUR Layer 2	NAD	/				
			328 Insulation	NAD	/				
			328 Gypsum	NAD	/				
			329 BUR Layer 1	NAD	/	SE roof section			
			329 BUR Layer 2	NAD	/				
			329 Insulation	NAD	/				
329 Gypsum	NAD	/							
330 BUR Layer 1	/	<1%C	NW roof section						
330 BUR Layer 2	/	<1%C							
330 Insulation	NAD	/							
330 Gypsum	NAD	/							

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HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
89	Misc.	Built-Up Roofing (Barrel Roof)	331 BUR	10%C	/	Northeast	6,000 sq. ft.	Good; Non-Friable	Located on barrel section of Auditorium roof.
			331 Insulation	NAD	/				
			331 Gypsum	NAD	/				
			332	S/P	/	Northwest			
			333	S/P	/	Southeast			
90	Misc.	Perimeter Flashing	334 Flashing Layer 1	NAD	/	North perimeter	524 In. ft.	Good; Non-Friable	Located on perimeters of flat roof sections, and north and south ends of barrel roof section on Auditorium roof.
			334 Flashing Layer 2	10%C	/				
			334 Gypsum	NAD	/				
			335	S/P	/	South perimeter			
			336	S/P	/	North end of barrel roof			

ATTACHMENT II
LABORATORY RESULTS

January 8, 2024

Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

CLIENT PROJECT: Byrnes HS- Phase III Demo (Roofing), 23167-IN
CEI LAB CODE: B240258

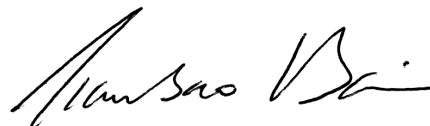
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 5, 2024. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

Crossroads Environmental

CLIENT PROJECT: Byrnes HS- Phase III Demo (Roofing), 23167-IN

LAB CODE: B240258

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 01/08/24

TOTAL SAMPLES ANALYZED: 18

SAMPLES >1% ASBESTOS: 4



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes HS- Phase III Demo (Roofing),
23167-IN

LAB CODE: B240258

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
301	Layer 1	B240258.01	Black	Bur (Felt Paper)	None Detected
	Layer 2	B240258.01	Black	Bur (Tar Paper)	None Detected
	Layer 3	B240258.01	Brown	Bur (Fiberboard)	None Detected
	Layer 4	B240258.01	Brown	Bur (Insulation)	None Detected
	Layer 5	B240258.01	White	Bur (Insulation)	None Detected
302	Layer 1	B240258.02	Black	Bur (Felt Paper)	None Detected
	Layer 2	B240258.02	Black	Bur (Tar Paper)	None Detected
	Layer 3	B240258.02	Brown	Bur (Fiberboard)	None Detected
	Layer 4	B240258.02	Brown	Bur (Insulation)	None Detected
	Layer 5	B240258.02	White	Bur (Insulation)	None Detected
303	Layer 1	B240258.03		Sample Submitted for TEM Analysis	
	Layer 2	B240258.03		Sample Submitted for TEM Analysis	
	Layer 3	B240258.03	Brown	Bur (Fiberboard)	None Detected
	Layer 4	B240258.03	White	Bur (Insulation)	None Detected
304	Layer 1	B240258.04	Black	Equipment Flashing	None Detected
	Layer 2	B240258.04	Brown	Fiberboard	None Detected
305	Layer 1	B240258.05	Black	Equipment Flashing	None Detected
	Layer 2	B240258.05	Brown	Fiberboard	None Detected
306	Layer 1	B240258.06		Sample Submitted for TEM Analysis	
	Layer 2	B240258.06	Brown	Fiberboard	None Detected
307	Layer 1	B240258.07	Black	Bur (Tar Paper)	Chrysotile 30%
	Layer 2	B240258.07	Brown	Bur (Fiberboard)	None Detected
	Layer 3	B240258.07	Cream	Bur (Insulation)	None Detected
308		B240258.08		Sample Not Analyzed per COC	
309		B240258.09		Sample Not Analyzed per COC	
310	Layer 1	B240258.10	Silver	Silver Paint	Chrysotile 2%
	Layer 2	B240258.10	Black	Perimeter Flashing	Chrysotile 30%
	Layer 3	B240258.10	Brown	Insulation	None Detected
311		B240258.11		Sample Not Analyzed per COC	



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes HS- Phase III Demo (Roofing),
23167-IN

LAB CODE: B240258

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
312		B240258.12		Sample Not Analyzed per COC	
313	Layer 1	B240258.13	Off-white	Foam Insulation	None Detected
	Layer 2	B240258.13	Brown	Felt Paper	None Detected
314	Layer 1	B240258.14	Off-white	Foam Insulation	None Detected
	Layer 2	B240258.14	Brown	Felt Paper	None Detected
315	Layer 1	B240258.15	Off-white	Foam Insulation	None Detected
	Layer 2	B240258.15	Brown	Felt Paper	None Detected
316		B240258.16	White,Brown	Gypsum Core	None Detected
317		B240258.17	White,Brown	Gypsum Core	None Detected
318		B240258.18	White,Brown	Gypsum Core	None Detected
319	Layer 1	B240258.19	Black	Bur (Tar Paper)	None Detected
	Layer 2	B240258.19	White	Bur (Gypsum)	None Detected
320	Layer 1	B240258.20	Black	Bur (Tar Paper)	None Detected
	Layer 2	B240258.20	White	Bur (Gypsum)	None Detected
321	Layer 1	B240258.21		Sample Submitted for TEM Analysis	
	Layer 2	B240258.21	White	Bur (Gypsum)	None Detected
322	Layer 1	B240258.22	Black	Perimeter Flashing	None Detected
	Layer 2	B240258.22	Black	Perimeter Flashing	Chrysotile 3%
323		B240258.23		Sample Not Analyzed per COC	
324		B240258.24		Sample Not Analyzed per COC	

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240258
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III Demo (Roofing), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
301 Layer 1 B240258.01	Bur (Felt Paper)	Heterogeneous	70%	Cellulose	30%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
Layer 2 B240258.01	Bur (Tar Paper)	Heterogeneous	60%	Cellulose	40%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
Layer 3 B240258.01	Bur (Fiberboard)	Homogeneous	100%	Cellulose			None Detected
		Brown					
		Fibrous					
		Loosely Bound					
Layer 4 B240258.01	Bur (Insulation)	Homogeneous	100%	Cellulose			None Detected
		Brown					
		Fibrous					
		Loosely Bound					
Layer 5 B240258.01	Bur (Insulation)	Homogeneous	2%	Cellulose	98%	Gypsum	None Detected
		White					
		Non-fibrous					
		Bound					
302 Layer 1 B240258.02	Bur (Felt Paper)	Heterogeneous	70%	Cellulose	30%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
Layer 2 B240258.02	Bur (Tar Paper)	Heterogeneous	60%	Cellulose	40%	Tar	None Detected
		Black					
		Fibrous					
		Bound					



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ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: B240258
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III Demo (Roofing), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Non-Fibrous			
Layer 3 B240258.02	Bur (Fiberboard)	Homogeneous Brown Fibrous Loosely Bound	100%	Cellulose			None Detected
Layer 4 B240258.02	Bur (Insulation)	Homogeneous Brown Fibrous Loosely Bound	100%	Cellulose			None Detected
Layer 5 B240258.02	Bur (Insulation)	Homogeneous White Non-fibrous Bound	2%	Cellulose	98%	Gypsum	None Detected
303 Layer 1 B240258.03	Sample Submitted for TEM Analysis						
Layer 2 B240258.03	Sample Submitted for TEM Analysis						
Layer 3 B240258.03	Bur (Fiberboard)	Homogeneous Brown Fibrous Loosely Bound	100%	Cellulose			None Detected
Layer 4 B240258.03	Bur (Insulation)	Homogeneous White Non-fibrous Bound	2%	Cellulose	98%	Gypsum	None Detected
304 Layer 1 B240258.04	Equipment Flashing	Heterogeneous Black Non-fibrous Bound	50%	Cellulose	48%	Tar 2% Binder	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240258
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III Demo (Roofing), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
Layer 2 B240258.04	Fiberboard	Homogeneous Brown Fibrous Loosely Bound	100%	Cellulose		None Detected
305 Layer 1 B240258.05	Equipment Flashing	Heterogeneous Black Non-fibrous Bound	50%	Cellulose	48% Tar 2% Binder	None Detected
Layer 2 B240258.05	Fiberboard	Homogeneous Brown Fibrous Loosely Bound	100%	Cellulose		None Detected
306 Layer 1 B240258.06	Sample Submitted for TEM Analysis					
Layer 2 B240258.06	Fiberboard	Homogeneous Brown Fibrous Loosely Bound	100%	Cellulose		None Detected
307 Layer 1 B240258.07	Bur (Tar Paper)	Heterogeneous Black Non-fibrous Bound			70% Tar	30% Chrysotile
Layer 2 B240258.07	Bur (Fiberboard)	Homogeneous Brown Fibrous Loosely Bound	100%	Cellulose		None Detected
Layer 3 B240258.07	Bur (Insulation)	Homogeneous Cream Fibrous Loosely Bound			100% Foam	None Detected



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ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: B240258
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III Demo (Roofing), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
308 B240258.08	Sample Not Analyzed per COC				
309 B240258.09	Sample Not Analyzed per COC				
310 Layer 1 B240258.10	Silver Paint	Heterogeneous Silver Non-fibrous Bound	78% 20%	Paint Tar	2% Chrysotile
Layer 2 B240258.10	Perimeter Flashing	Heterogeneous Black Non-fibrous Bound	70%	Tar	30% Chrysotile
Layer 3 B240258.10	Insulation	Homogeneous Brown Fibrous Loosely Bound	100%	Cellulose	None Detected
311 B240258.11	Sample Not Analyzed per COC				
312 B240258.12	Sample Not Analyzed per COC				
313 Layer 1 B240258.13	Foam Insulation	Homogeneous Off-white Non-fibrous Bound	100%	Foam	None Detected
Layer 2 B240258.13	Felt Paper	Homogeneous Brown Fibrous Loosely Bound	80% 20%	Cellulose Fiberglass	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240258
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III Demo (Roofing), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous		Non-Fibrous	
314 Layer 1 B240258.14	Foam Insulation	Homogeneous Off-white Non-fibrous Bound			100% Foam	None Detected
Layer 2 B240258.14	Felt Paper	Homogeneous Brown Fibrous Loosely Bound	80% 20%	Cellulose Fiberglass		None Detected
315 Layer 1 B240258.15	Foam Insulation	Homogeneous Off-white Non-fibrous Bound			100% Foam	None Detected
Sample appears to be friable. Sample not sent for TEM analysis.						
Layer 2 B240258.15	Felt Paper	Homogeneous Brown Fibrous Loosely Bound	80% 20%	Cellulose Fiberglass		None Detected
316 B240258.16	Gypsum Core	Heterogeneous White,Brown Fibrous Bound	20% 2%	Cellulose Fiberglass	78% Gypsum	None Detected
317 B240258.17	Gypsum Core	Heterogeneous White,Brown Fibrous Bound	20% 2%	Cellulose Fiberglass	78% Gypsum	None Detected
318 B240258.18	Gypsum Core	Heterogeneous White,Brown Fibrous Bound	20% 2%	Cellulose Fiberglass	78% Gypsum	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240258
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III Demo (Roofing), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
319 Layer 1 B240258.19	Bur (Tar Paper)	Heterogeneous Black Non-fibrous Bound	60%	Cellulose	40%	Tar	None Detected
Layer 2 B240258.19	Bur (Gypsum)	Homogeneous White Non-fibrous Bound	2%	Cellulose	98%	Gypsum	None Detected
320 Layer 1 B240258.20	Bur (Tar Paper)	Heterogeneous Black Non-fibrous Bound	60%	Cellulose	40%	Tar	None Detected
Layer 2 B240258.20	Bur (Gypsum)	Homogeneous White Non-fibrous Bound	2%	Cellulose	98%	Gypsum	None Detected
321 Layer 1 B240258.21	Sample Submitted for TEM Analysis						
Layer 2 B240258.21	Bur (Gypsum)	Homogeneous White Non-fibrous Bound	2%	Cellulose	98%	Gypsum	None Detected
322 Layer 1 B240258.22	Perimeter Flashing	Heterogeneous Black Non-fibrous Bound	60%	Cellulose	40%	Tar	None Detected
Layer 2 B240258.22	Perimeter Flashing	Heterogeneous Black Non-fibrous Bound	10%	Cellulose	67%	Tar	3% Chrysotile
			20%	Fiberglass			



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ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: B240258
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III Demo (Roofing), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
323 B240258.23	Sample Not Analyzed per COC				
324 B240258.24	Sample Not Analyzed per COC				

LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*


This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST:


Nicholas Moore

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director





730 S.E. Maynard Rd., Cary, NC 27511
 Tel: 919-481-1413; Fax: 919-481-1442

CHAIN OF CUSTODY

24

LAB USE ONLY:	
CEI Lab Code:	B240258 / T240018
CEI Lab I.D. Range:	

COMPANY CONTACT INFORMATION	
Company: CROSSROADS ENVIRONMENTAL, LLC	Client #:
Address: 1258 BOILING SPRINGS RD.	Job Contact: Evans Harris
SPARTANBURG, SC 29303	Email: RESULTS@CROSSROADSENV.NET
	Tel: 864-541-8736
Project Name: Byrnes HS- Phase III Demo (Roofing)	Fax: 864-541-8776
Project ID #: 23167-IN	P.O. #:

ASBESTOS	METHOD	4 HR*	8 HR*	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600			X			
TEM BULK	CHATFIELD			X			
PLM POINT COUNT (400)	EPA 600						
PLM POINT COUNT (1000)	EPA 600						
PLM GRAVIMETRIC	EPA 600						
PLM GRAV w POINT COUNT	EPA 600						
OTHER:							

POSITIVE STOP ANALYSIS	X
SOUTH CAROLINA SAMPLES	X
NORTH CAROINA SAMPLES	

TEM INSTRUCTIONS	
BEGIN TEM ANALYSIS AFTER NEGATIVE PLM	X
ANALYZE TEM SAMPLES SIMULTANEOUSLY WITH PLM	

DO NOT STOP POSITIVE SURFACING MATERIAL		<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples	
Relinquished By:	Date/Time	Received By:	Date/Time
<i>Evans Harris</i>	1/4/2024 0:00	<i>CM</i>	01/05/24 9:30

*Call to confirm RUSH analysis.

Samples will be disposed of 30 days after analysis

81815032 0343



SAMPLING FORM

COMPANY CONTACT INFORMATION	
Crossroads Environmental, LLC	Job Contact: Evans Harris
Project Name: Byrnes HS- Phase III Demo (Roofing)	
Project ID #: 23167-IN	Tel: 864-541-8736

SAMPLE ID#	HA	DESCRIPTION / LOCATION	TEST			
			PLM		TEM	
T 301 /	01	BUR Over Lightweight Concrete	PLM	X	TEM	
302 /	01	BUR Over Lightweight Concrete	PLM	X	TEM	
303 /	01	BUR Over Lightweight Concrete	PLM		TEM	X
304 /	02	Equipment Flashing	PLM	X	TEM	
305 /	02	Equipment Flashing	PLM	X	TEM	
306 /	02	Equipment Flashing	PLM		TEM	X
L 307 /	03	BUR Over Metal Decking	PLM	X	TEM	
T 308 /	03	BUR Over Metal Decking	PLM	X	TEM	
309 /	03	BUR Over Metal Decking	PLM		TEM	X
310 /	04	Perimeter Flashing	PLM	X	TEM	
311 /	04	Perimeter Flashing	PLM	X	TEM	
312 /	04	Perimeter Flashing	PLM		TEM	X
L 313 /	05	Foam Layer (Corrugated Metal)	PLM	X	TEM	
T 314 /	05	Foam Layer (Corrugated Metal)	PLM	X	TEM	
315 /	05	Foam Layer (Corrugated Metal)	PLM		TEM	X
316 /	06	Gypsum core	PLM	X	TEM	
317 /	06	Gypsum core	PLM	X	TEM	
318 /	06	Gypsum core	PLM	X	TEM	
L 319 /	07	BUR Over Corrugated Metal	PLM	X	TEM	
T 320 /	07	BUR Over Corrugated Metal	PLM	X	TEM	
321 /	07	BUR Over Corrugated Metal	PLM		TEM	X
322 /	08	Perimeter Flashing	PLM	X	TEM	
323 /	08	Perimeter Flashing	PLM	X	TEM	
L 324 /	08	Perimeter Flashing	PLM		TEM	X
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	

January 18, 2024

Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

CLIENT PROJECT: Byrnes HS- Phase III (Part II), 23167-IN
CEI LAB CODE: B240261v2

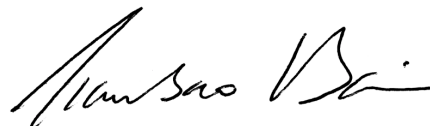
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 5, 2024. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

Crossroads Environmental

CLIENT PROJECT: Byrnes HS- Phase III (Part II), 23167-IN

LAB CODE: B240261v2

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 01/16/24

TOTAL SAMPLES ANALYZED: 81

SAMPLES >1% ASBESTOS: 7



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes HS- Phase III (Part II), 23167-IN

LAB CODE: B240261v2

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
132		B240261.001A	Off-white	Vinyl Floor Tile	None Detected
		B240261.001B	Black	Mastic	None Detected
133		B240261.002A	Off-white	Vinyl Floor Tile	None Detected
		B240261.002B	Black	Mastic	None Detected
134		B240261.003A		Sample Submitted for TEM Analysis	
		B240261.003B		Sample Submitted for TEM Analysis	
135		B240261.004A	Brown,Gray	Covebase	None Detected
		B240261.004B	Tan	Mastic	None Detected
136		B240261.005A	Brown,Gray	Covebase	None Detected
		B240261.005B	Tan	Mastic	None Detected
137		B240261.006A		Sample Submitted for TEM Analysis	
		B240261.006B		Sample Submitted for TEM Analysis	
138		B240261.007A	Blue	Stair Tread	None Detected
		B240261.007B	Clear	Mastic	None Detected
139		B240261.008A	Blue	Stair Tread	None Detected
		B240261.008B	Clear	Mastic	None Detected
140		B240261.009A		Sample Submitted for TEM Analysis	
		B240261.009B		Sample Submitted for TEM Analysis	
141		B240261.010	White,Beige	Ceiling Tile	None Detected
142		B240261.011	White,Beige	Ceiling Tile	None Detected
143		B240261.012	White,Beige	Ceiling Tile	None Detected
144		B240261.013A	Beige	Vinyl Floor Tile	None Detected
		B240261.013B	Black	Mastic	Chrysotile 2%
145		B240261.014A	Beige	Vinyl Floor Tile	None Detected
		B240261.014B		Sample Not Analyzed per COC	
146		B240261.015A		Sample Submitted for TEM Analysis	



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Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes HS- Phase III (Part II), 23167-IN

LAB CODE: B240261v2

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
		B240261.015B		Sample Not Analyzed per COC	
147		B240261.016A	Yellow	Vinyl Floor Tile	None Detected
	Layer 1	B240261.016B	Black	Mastic	Chrysotile 2%
	Layer 2	B240261.016B	White	Leveling Compound	None Detected
148		B240261.017A	Yellow	Vinyl Floor Tile	None Detected
		B240261.017B		Sample Not Analyzed per COC	
149		B240261.018A		Sample Submitted for TEM Analysis	
		B240261.018B		Sample Not Analyzed per COC	
150		B240261.019	White,Beige	Ceiling Tile	None Detected
151		B240261.020	White,Beige	Ceiling Tile	None Detected
152		B240261.021	White,Beige	Ceiling Tile	None Detected
153		B240261.022A	Gray	Covebase	None Detected
		B240261.022B	Cream	Mastic	None Detected
154		B240261.023A	Gray	Covebase	None Detected
		B240261.023B	Cream	Mastic	None Detected
155		B240261.024A		Sample Submitted for TEM Analysis	
		B240261.024B		Sample Submitted for TEM Analysis	
156		B240261.025A	Gray	Vinyl Floor Tile	None Detected
		B240261.025B	Black	Mastic	None Detected
157		B240261.026A	Gray	Vinyl Floor Tile	None Detected
		B240261.026B	Black	Mastic	None Detected
158		B240261.027A		Sample Submitted for TEM Analysis	
		B240261.027B		Sample Submitted for TEM Analysis	
159		B240261.028A	Sky Blue	Vinyl Floor Tile	None Detected
		B240261.028B	Black	Mastic	None Detected
160		B240261.029A	Sky Blue	Vinyl Floor Tile	None Detected
		B240261.029B	Black	Mastic	None Detected



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes HS- Phase III (Part II), 23167-IN

LAB CODE: B240261v2

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
161		B240261.030A		Sample Submitted for TEM Analysis	
		B240261.030B		Sample Submitted for TEM Analysis	
165		B240261.031A	Aqua Blue	Vinyl Floor Tile	None Detected
	Layer 1	B240261.031B	Tan	Mastic	None Detected
	Layer 2	B240261.031B	White	Leveling Compound	None Detected
166		B240261.032A	Aqua Blue	Vinyl Floor Tile	None Detected
		B240261.032B	Tan	Mastic	None Detected
167		B240261.033A		Sample Submitted for TEM Analysis	
		B240261.033B		Sample Submitted for TEM Analysis	
168		B240261.034A	Royal Blue	Vinyl Floor Tile	None Detected
		B240261.034B	Black	Mastic	None Detected
169		B240261.035A	Royal Blue	Vinyl Floor Tile	None Detected
		B240261.035B	Black	Mastic	None Detected
170		B240261.036A		Sample Submitted for TEM Analysis	
		B240261.036B		Sample Submitted for TEM Analysis	
171		B240261.037A	Red	Vinyl Floor Tile	None Detected
		B240261.037B	Black	Mastic	None Detected
172		B240261.038A	Red	Vinyl Floor Tile	None Detected
	Layer 1	B240261.038B	Black	Mastic	None Detected
	Layer 2	B240261.038B	White	Leveling Compound	None Detected
173		B240261.039A		Sample Submitted for TEM Analysis	
		B240261.039B		Sample Submitted for TEM Analysis	
174		B240261.040A	Black,Gray	Vinyl Floor Tile	None Detected
		B240261.040B	Black	Mastic	None Detected
175		B240261.041A	Black,Gray	Vinyl Floor Tile	None Detected



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes HS- Phase III (Part II), 23167-IN

LAB CODE: B240261v2

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
	Layer 1	B240261.041B	Black	Mastic	None Detected
	Layer 2	B240261.041B	White	Leveling Compound	None Detected
176		B240261.042A		Sample Submitted for TEM Analysis	
		B240261.042B		Sample Submitted for TEM Analysis	
177		B240261.043	Yellow	Carpet Glue	None Detected
178		B240261.044	Yellow	Carpet Glue	None Detected
179		B240261.045		Sample Submitted for TEM Analysis	
180		B240261.046	Off-white,Gray	Block Filler	None Detected
181		B240261.047	Off-white,Blue	Block Filler	None Detected
182		B240261.048	Off-white,Blue	Block Filler	None Detected
183		B240261.049	Off-white,Blue	Block Filler	None Detected
184		B240261.050	Off-white,Gray	Block Filler	None Detected
185		B240261.051	Off-white,Gray	Block Filler	None Detected
186		B240261.052	Off-white,Gray	Block Filler	None Detected
187	Layer 1	B240261.053	White	Joint Compound	None Detected
	Layer 2	B240261.053	Gray,Tan	Drywall	None Detected
188	Layer 1	B240261.054	White	Joint Compound	None Detected
	Layer 2	B240261.054	Gray,Tan	Drywall	None Detected
189	Layer 1	B240261.055	White	Joint Compound	None Detected
	Layer 2	B240261.055	Gray,Tan	Drywall	None Detected
190	Layer 1	B240261.056	White	Joint Compound	None Detected
	Layer 2	B240261.056	Gray,Tan	Drywall	None Detected
191	Layer 1	B240261.057	White	Joint Compound	None Detected
	Layer 2	B240261.057	Gray,Tan	Drywall	None Detected
194		B240261.058A	Dark Gray	Vinyl Floor Tile	None Detected
		B240261.058B	Yellow,Black	Mastic	None Detected
195		B240261.059A	Dark Gray	Vinyl Floor Tile	None Detected
		B240261.059B	Yellow,Black	Mastic	None Detected



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes HS- Phase III (Part II), 23167-IN

LAB CODE: B240261v2

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
196		B240261.060A		Sample Submitted for TEM Analysis	
		B240261.060B		Sample Submitted for TEM Analysis	
197		B240261.061A	Gray	Sheet Flooring	None Detected
	Layer 1	B240261.061B	Beige	Mastic	None Detected
	Layer 2	B240261.061B	Gray	Leveling Compound	None Detected
	Layer 3	B240261.061B	Yellow	Mastic	None Detected
198		B240261.062A	Gray	Sheet Flooring	None Detected
		B240261.062B	Beige	Mastic	None Detected
199		B240261.063A		Sample Submitted for TEM Analysis	
		B240261.063B		Sample Submitted for TEM Analysis	
200	Layer 1	B240261.064	White	Ceiling Texture	None Detected
	Layer 2	B240261.064	Gray	Plaster	None Detected
201	Layer 1	B240261.065	White	Ceiling Texture	None Detected
	Layer 2	B240261.065	Gray	Plaster	None Detected
202	Layer 1	B240261.066	White	Ceiling Texture	None Detected
	Layer 2	B240261.066	Gray	Plaster	None Detected
203	Layer 1	B240261.067	White	Ceiling Texture	None Detected
	Layer 2	B240261.067	Gray	Plaster	None Detected
204	Layer 1	B240261.068	White	Ceiling Texture	None Detected
	Layer 2	B240261.068	Gray	Plaster	None Detected
205		B240261.069A	Blue,Gray	Vinyl Floor Tile	None Detected
		B240261.069B	Yellow,Black	Mastic	Chrysotile 3%
206*		B240261.070A	Blue,Gray	Vinyl Floor Tile	None Detected
		B240261.070B	Black	Mastic	None Detected
207		B240261.071A		Sample Submitted for TEM Analysis	
		B240261.071B		Sample Not Analyzed per COC	
208		B240261.072A	Blue,Gray	Covebase	None Detected



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes HS- Phase III (Part II), 23167-IN

LAB CODE: B240261v2

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
		B240261.072B	Beige	Mastic	None Detected
209		B240261.073A	Blue,Gray	Covebase	None Detected
		B240261.073B	Beige	Mastic	None Detected
210		B240261.074A		Sample Submitted for TEM Analysis	
		B240261.074B		Sample Submitted for TEM Analysis	
211		B240261.075	Beige,Gray	Carpet Glue/leveling Compound	None Detected
212		B240261.076	Beige,Gray	Carpet Glue/leveling Compound	None Detected
213		B240261.077		Sample Submitted for TEM Analysis	
214		B240261.078A	Gray	Stair Tread	None Detected
		B240261.078B	Beige,Yellow	Mastic	None Detected
215		B240261.079A	Gray	Stair Tread	None Detected
		B240261.079B	Beige,Yellow	Mastic	None Detected
216		B240261.080A		Sample Submitted for TEM Analysis	
		B240261.080B		Sample Submitted for TEM Analysis	
217		B240261.081A	White,Tan	Ceiling Tile	None Detected
	Layer 1	B240261.081B	Brown	Mastic	None Detected
	Layer 2	B240261.081B	Gray	Plaster	None Detected
218		B240261.082A	White,Tan	Ceiling Tile	None Detected
	Layer 1	B240261.082B	Brown	Mastic	None Detected
	Layer 2	B240261.082B	Gray	Plaster	None Detected
219		B240261.083A	White,Tan	Ceiling Tile	None Detected
	Layer 1	B240261.083B		Sample Submitted for TEM Analysis	
	Layer 2	B240261.083B	Gray	Plaster	None Detected
220		B240261.084	Tan	Peanut Butter Mastic	None Detected
221		B240261.085	Tan	Peanut Butter Mastic	None Detected
222		B240261.086		Sample Submitted for TEM Analysis	



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes HS- Phase III (Part II), 23167-IN

LAB CODE: B240261v2

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
223		B240261.087	Black	Mastic	Chrysotile 3%
224		B240261.088		Sample Not Analyzed per COC	
225		B240261.089		Sample Not Analyzed per COC	
226		B240261.090	Gray	Fireproofing	None Detected
227		B240261.091	Gray	Fireproofing	None Detected
228		B240261.092	Gray	Fireproofing	None Detected
229		B240261.093	Gray	Fireproofing	None Detected
230		B240261.094	Gray	Fireproofing	None Detected
231		B240261.095	White	Ceiling Tile	None Detected
232		B240261.096	White	Ceiling Tile	None Detected
233		B240261.097	White	Ceiling Tile	None Detected
234		B240261.098	White,Tan	Gypsum Ceiling Tile	None Detected
235		B240261.099	White,Tan	Gypsum Ceiling Tile	None Detected
236		B240261.100	White,Tan	Gypsum Ceiling Tile	None Detected
237	Layer 1	B240261.101	White	Surface Material	Chrysotile 2%
	Layer 2	B240261.101	Gray	Window Caulking	Chrysotile <1%
238	Layer 1	B240261.102	White	Surface Material	Chrysotile 2%
	Layer 2	B240261.102	Gray	Window Caulking	Chrysotile <1%
239	Layer 1	B240261.103	White	Surface Material	Chrysotile 2%
	Layer 2	B240261.103		Sample Submitted for TEM Analysis	

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous		Non-Fibrous	
132 B240261.001A	Vinyl Floor Tile	Homogeneous Off-white Non-fibrous Bound	100%	Vinyl		None Detected
Samples B240261.001-.057 analyzed by M. Schmidt						
B240261.001B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98%	Tar None Detected
133 B240261.002A	Vinyl Floor Tile	Homogeneous Off-white Non-fibrous Bound	100%	Vinyl		None Detected
B240261.002B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98%	Tar None Detected
134 B240261.003A	Sample Submitted for TEM Analysis					
B240261.003B	Sample Submitted for TEM Analysis					
135 B240261.004A	Covebase	Homogeneous Brown, Gray Non-fibrous Bound	100%	Vinyl		None Detected
B240261.004B	Mastic	Homogeneous Tan Non-fibrous Bound	100%	Mastic		None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
136 B240261.005A	Covebase	Homogeneous Brown, Gray Non-fibrous Bound	100%	Vinyl	None Detected
B240261.005B	Mastic	Homogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
137 B240261.006A	Sample Submitted for TEM Analysis				
B240261.006B	Sample Submitted for TEM Analysis				
138 B240261.007A	Stair Tread	Homogeneous Blue Non-fibrous Bound	100%	Vinyl	None Detected
B240261.007B	Mastic	Homogeneous Clear Non-fibrous Bound	100%	Mastic	None Detected
139 B240261.008A	Stair Tread	Homogeneous Blue Non-fibrous Bound	100%	Vinyl	None Detected
B240261.008B	Mastic	Homogeneous Clear Non-fibrous Bound	100%	Mastic	None Detected
140 B240261.009A	Sample Submitted for TEM Analysis				

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
B240261.009B	Sample Submitted for TEM Analysis						
141 B240261.010	Ceiling Tile	Heterogeneous White,Beige Fibrous Bound	60% 20%	Cellulose Fiberglass	15% 5%	Perlite Paint	None Detected
142 B240261.011	Ceiling Tile	Heterogeneous White,Beige Fibrous Bound	60% 20%	Cellulose Fiberglass	15% 5%	Perlite Paint	None Detected
143 B240261.012	Ceiling Tile	Heterogeneous White,Beige Fibrous Bound	60% 20%	Cellulose Fiberglass	15% 5%	Perlite Paint	None Detected
144 B240261.013A	Vinyl Floor Tile	Homogeneous Beige Non-fibrous Bound			100%	Vinyl	None Detected
B240261.013B	Mastic	Homogeneous Black Non-fibrous Bound			98%	Tar	2% Chrysotile
145 B240261.014A	Vinyl Floor Tile	Homogeneous Beige Non-fibrous Bound			100%	Vinyl	None Detected
B240261.014B	Sample Not Analyzed per COC						
146 B240261.015A	Sample Submitted for TEM Analysis						

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
B240261.015B	Sample Not Analyzed per COC					
147 B240261.016A	Vinyl Floor Tile	Homogeneous Yellow Non-fibrous Bound		100%	Vinyl	None Detected
Layer 1 B240261.016B	Mastic	Homogeneous Black Non-fibrous Bound	<1%	Cellulose 98%	Tar	2% Chrysotile
Layer 2 B240261.016B	Leveling Compound	Homogeneous White Non-fibrous Bound	<1%	Cellulose 85%	Binder 15% Calc Carb	None Detected
148 B240261.017A	Vinyl Floor Tile	Homogeneous Yellow Non-fibrous Bound		100%	Vinyl	None Detected
B240261.017B	Sample Not Analyzed per COC					
149 B240261.018A	Sample Submitted for TEM Analysis					
B240261.018B	Sample Not Analyzed per COC					
150 B240261.019	Ceiling Tile	Heterogeneous White, Beige Fibrous Bound	60% 20%	Cellulose Fiberglass	15% 5% Perlite Paint	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
151 B240261.020	Ceiling Tile	Heterogeneous	60%	Cellulose	15%	Perlite	None Detected
		White,Beige Fibrous Bound	20%	Fiberglass	5%	Paint	
152 B240261.021	Ceiling Tile	Heterogeneous	60%	Cellulose	15%	Perlite	None Detected
		White,Beige Fibrous Bound	20%	Fiberglass	5%	Paint	
153 B240261.022A	Covebase	Homogeneous			100%	Vinyl	None Detected
		Gray Non-fibrous Bound					
B240261.022B	Mastic	Homogeneous			100%	Mastic	None Detected
		Cream Non-fibrous Bound					
154 B240261.023A	Covebase	Homogeneous			100%	Vinyl	None Detected
		Gray Non-fibrous Bound					
B240261.023B	Mastic	Homogeneous			100%	Mastic	None Detected
		Cream Non-fibrous Bound					
155 B240261.024A	Sample Submitted for TEM Analysis						
B240261.024B	Sample Submitted for TEM Analysis						

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous		Non-Fibrous	
156 B240261.025A	Vinyl Floor Tile	Homogeneous Gray Non-fibrous Bound	100%		Vinyl	None Detected
B240261.025B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98% Tar	None Detected
157 B240261.026A	Vinyl Floor Tile	Homogeneous Gray Non-fibrous Bound	100%		Vinyl	None Detected
B240261.026B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98% Tar	None Detected
158 B240261.027A	Sample Submitted for TEM Analysis					
B240261.027B	Sample Submitted for TEM Analysis					
159 B240261.028A	Vinyl Floor Tile	Homogeneous Sky Blue Non-fibrous Bound	100%		Vinyl	None Detected
B240261.028B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98% Tar	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
160 B240261.029A	Vinyl Floor Tile	Homogeneous Sky Blue Non-fibrous Bound	100%		Vinyl		None Detected
B240261.029B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98%	Tar	None Detected
161 B240261.030A	Sample Submitted for TEM Analysis						
B240261.030B	Sample Submitted for TEM Analysis						
165 B240261.031A	Vinyl Floor Tile	Homogeneous Aqua Blue Non-fibrous Bound	100%		Vinyl		None Detected
Layer 1 B240261.031B	Mastic	Homogeneous Tan Non-fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
Layer 2 B240261.031B	Leveling Compound	Homogeneous White Non-fibrous Bound	<1%	Cellulose	85%	Binder 15% Calc Carb	None Detected
166 B240261.032A	Vinyl Floor Tile	Homogeneous Aqua Blue Non-fibrous Bound	100%		Vinyl		None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID	Lab	Lab	NON-ASBESTOS COMPONENTS				ASBESTOS
Lab ID	Description	Attributes	Fibrous	Non-Fibrous		%	
B240261.032B	Mastic	Homogeneous Tan Non-fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
167	Sample Submitted for TEM Analysis						
B240261.033A							
B240261.033B	Sample Submitted for TEM Analysis						
168	Sample Submitted for TEM Analysis						
B240261.034A	Vinyl Floor Tile	Homogeneous Royal Blue Non-fibrous Bound		100%	Vinyl		None Detected
B240261.034B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98%	Tar	None Detected
169	Sample Submitted for TEM Analysis						
B240261.035A	Vinyl Floor Tile	Homogeneous Royal Blue Non-fibrous Bound		100%	Vinyl		None Detected
B240261.035B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98%	Tar	None Detected
170	Sample Submitted for TEM Analysis						
B240261.036A							
B240261.036B	Sample Submitted for TEM Analysis						

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
171 B240261.037A	Vinyl Floor Tile	Homogeneous Red Non-fibrous Bound	100%	Vinyl			None Detected
B240261.037B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98%	Tar	None Detected
172 B240261.038A	Vinyl Floor Tile	Homogeneous Red Non-fibrous Bound	100%	Vinyl			None Detected
Layer 1 B240261.038B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98%	Tar	None Detected
Layer 2 B240261.038B	Leveling Compound	Homogeneous White Non-fibrous Bound	<1%	Cellulose	85%	Binder 15% Calc Carb	None Detected
173 B240261.039A	Sample Submitted for TEM Analysis						
B240261.039B	Sample Submitted for TEM Analysis						
174 B240261.040A	Vinyl Floor Tile	Homogeneous Black, Gray Non-fibrous Bound	100%	Vinyl			None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
B240261.040B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98%	Tar	None Detected
175 B240261.041A	Vinyl Floor Tile	Homogeneous Black,Gray Non-fibrous Bound			100%	Vinyl	None Detected
Layer 1 B240261.041B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98%	Tar	None Detected
Layer 2 B240261.041B	Leveling Compound	Homogeneous White Non-fibrous Bound	<1%	Cellulose	85% 15%	Binder Calc Carb	None Detected
176 B240261.042A	Sample Submitted for TEM Analysis						
B240261.042B	Sample Submitted for TEM Analysis						
177 B240261.043	Carpet Glue	Homogeneous Yellow Non-fibrous Bound	<1%	Synthetic Fiber	90% 10%	Mastic Binder	None Detected
178 B240261.044	Carpet Glue	Homogeneous Yellow Non-fibrous Bound	<1%	Synthetic Fiber	90% 10%	Mastic Binder	None Detected
179 B240261.045	Sample Submitted for TEM Analysis						

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Non-Fibrous			
180 B240261.046	Block Filler	Heterogeneous Off-white, Gray Non-fibrous Bound	<1%	Cellulose	65%	Binder 35% Silicates	None Detected
181 B240261.047	Block Filler	Heterogeneous Off-white, Blue Non-fibrous Bound	<1%	Cellulose	65%	Binder 35% Silicates	None Detected
182 B240261.048	Block Filler	Heterogeneous Off-white, Blue Non-fibrous Bound	<1%	Cellulose	65%	Binder 35% Silicates	None Detected
183 B240261.049	Block Filler	Heterogeneous Off-white, Blue Non-fibrous Bound	<1%	Cellulose	65%	Binder 35% Silicates	None Detected
184 B240261.050	Block Filler	Heterogeneous Off-white, Gray Non-fibrous Bound	<1%	Cellulose	65%	Binder 35% Silicates	None Detected
185 B240261.051	Block Filler	Heterogeneous Off-white, Gray Non-fibrous Bound	<1%	Cellulose	65%	Binder 35% Silicates	None Detected
186 B240261.052	Block Filler	Heterogeneous Off-white, Gray Non-fibrous Bound	<1%	Cellulose	65%	Binder 35% Silicates	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous		Non-Fibrous		
187 Layer 1 B240261.053	Joint Compound	Heterogeneous			65%	Binder	None Detected
		White			30%	Calc Carb	
		Non-fibrous			5%	Paint	
		Bound					
Layer 2 B240261.053	Drywall	Heterogeneous	20%	Cellulose	80%	Gypsum	None Detected
		Gray,Tan					
		Fibrous					
		Bound					
188 Layer 1 B240261.054	Joint Compound	Heterogeneous			65%	Binder	None Detected
		White			30%	Calc Carb	
		Non-fibrous			5%	Paint	
		Bound					
Layer 2 B240261.054	Drywall	Heterogeneous	20%	Cellulose	80%	Gypsum	None Detected
		Gray,Tan					
		Fibrous					
		Bound					
189 Layer 1 B240261.055	Joint Compound	Heterogeneous			65%	Binder	None Detected
		White			30%	Calc Carb	
		Non-fibrous			5%	Paint	
		Bound					
Layer 2 B240261.055	Drywall	Heterogeneous	20%	Cellulose	80%	Gypsum	None Detected
		Gray,Tan					
		Fibrous					
		Bound					
190 Layer 1 B240261.056	Joint Compound	Heterogeneous			65%	Binder	None Detected
		White			30%	Calc Carb	
		Non-fibrous			5%	Paint	
		Bound					



CEI

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous		Non-Fibrous		
Layer 2 B240261.056	Drywall	Heterogeneous Gray,Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
191 Layer 1 B240261.057	Joint Compound	Heterogeneous White Non-fibrous Bound			65%	Binder	None Detected
			30%		5%	Calc Carb Paint	
Layer 2 B240261.057	Drywall	Heterogeneous Gray,Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
194 B240261.058A	Vinyl Floor Tile	Homogeneous Dark Gray Non-fibrous Bound			100%	Vinyl	None Detected
Samples B240261.058-.103 analyzed by Z. Heinz							
B240261.058B	Mastic	Homogeneous Yellow,Black Non-fibrous Bound			100%	Mastic	None Detected
Unable to separate mastics.							
195 B240261.059A	Vinyl Floor Tile	Homogeneous Dark Gray Non-fibrous Bound			100%	Vinyl	None Detected
B240261.059B	Mastic	Homogeneous Yellow,Black Non-fibrous Bound			100%	Mastic	None Detected
Unable to separate mastics.							

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
196 B240261.060A	Sample Submitted for TEM Analysis						
B240261.060B	Sample Submitted for TEM Analysis						
197 B240261.061A	Sheet Flooring	Homogeneous Gray Fibrous Bound	10%	Fiberglass	90%	Vinyl	None Detected
Layer 1 B240261.061B	Mastic	Homogeneous Beige Non-fibrous Bound			100%	Mastic	None Detected
Layer 2 B240261.061B	Leveling Compound	Homogeneous Gray Non-fibrous Bound			80%	Binder	None Detected
					20%	Silicates	
Layer 3 B240261.061B	Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
198 B240261.062A	Sheet Flooring	Homogeneous Gray Fibrous Bound	10%	Fiberglass	90%	Vinyl	None Detected
B240261.062B	Mastic	Homogeneous Beige Non-fibrous Bound			100%	Mastic	None Detected
199 B240261.063A	Sample Submitted for TEM Analysis						



CEI

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
B240261.063B Sample Submitted for TEM Analysis							
200 Layer 1 B240261.064	Ceiling Texture	Heterogeneous White Fibrous Bound	5%	Cellulose	60%	Binder Foam Paint	None Detected
Layer 2 B240261.064	Plaster	Homogeneous Gray Non-fibrous Bound			85%	Binder Vermiculite	None Detected
201 Layer 1 B240261.065	Ceiling Texture	Heterogeneous White Fibrous Bound	5%	Cellulose	60%	Binder Foam Paint	None Detected
Layer 2 B240261.065	Plaster	Homogeneous Gray Non-fibrous Bound			85%	Binder Vermiculite	None Detected
202 Layer 1 B240261.066	Ceiling Texture	Heterogeneous White Fibrous Bound	5%	Cellulose	60%	Binder Foam Paint	None Detected
Layer 2 B240261.066	Plaster	Homogeneous Gray Non-fibrous Bound			85%	Binder Vermiculite	None Detected
203 Layer 1 B240261.067	Ceiling Texture	Heterogeneous White Fibrous Bound	5%	Cellulose	60%	Binder Foam Paint	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
Layer 2 B240261.067	Plaster	Homogeneous Gray Non-fibrous Bound	85%	Binder Vermiculite	None Detected
204 Layer 1 B240261.068	Ceiling Texture	Heterogeneous White Fibrous Bound	5% 30% 5%	Cellulose Foam Paint	None Detected
Layer 2 B240261.068	Plaster	Homogeneous Gray Non-fibrous Bound	85%	Binder Vermiculite	None Detected
205 B240261.069A	Vinyl Floor Tile	Homogeneous Blue,Gray Non-fibrous Bound	100%	Vinyl	None Detected
B240261.069B	Mastic	Homogeneous Yellow,Black Non-fibrous Bound	97%	Mastic	3% Chrysotile
Unable to separate mastics.					
206* B240261.070A	Vinyl Floor Tile	Homogeneous Blue,Gray Non-fibrous Bound	100%	Vinyl	None Detected
B240261.070B	Mastic	Homogeneous Black Non-fibrous Bound	100%	Mastic	None Detected
207 B240261.071A	Sample Submitted for TEM Analysis				

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID	Lab	Lab	NON-ASBESTOS COMPONENTS		ASBESTOS
Lab ID	Description	Attributes	Fibrous	Non-Fibrous	%
B240261.071B	Sample Not Analyzed per COC				
208 B240261.072A	Covebase	Homogeneous Blue,Gray Non-fibrous Bound	100%	Vinyl	None Detected
B240261.072B	Mastic	Homogeneous Beige Non-fibrous Bound	100%	Mastic	None Detected
209 B240261.073A	Covebase	Homogeneous Blue,Gray Non-fibrous Bound	100%	Vinyl	None Detected
B240261.073B	Mastic	Homogeneous Beige Non-fibrous Bound	100%	Mastic	None Detected
210 B240261.074A	Sample Submitted for TEM Analysis				
B240261.074B	Sample Submitted for TEM Analysis				
211 B240261.075	Carpet Glue/leveling Compound	Homogeneous Beige,Gray Non-fibrous Bound	95%	Mastic 5% Silicates	None Detected

Unable to separate.

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
212 B240261.076	Carpet Glue/leveling Compound	Homogeneous Beige, Gray Non-fibrous Bound	95% 5%	Mastic Silicates	None Detected
Unable to separate.					
213 B240261.077	Sample Submitted for TEM Analysis				
214 B240261.078A	Stair Tread	Homogeneous Gray Non-fibrous Bound	100%	Vinyl	None Detected
B240261.078B	Mastic	Homogeneous Beige, Yellow Non-fibrous Bound	100%	Mastic	None Detected
Unable to separate mastics.					
215 B240261.079A	Stair Tread	Homogeneous Gray Non-fibrous Bound	100%	Vinyl	None Detected
B240261.079B	Mastic	Homogeneous Beige, Yellow Non-fibrous Bound	100%	Mastic	None Detected
Unable to separate mastics.					
216 B240261.080A	Sample Submitted for TEM Analysis				
B240261.080B	Sample Submitted for TEM Analysis				



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ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
217 B240261.081A	Ceiling Tile	Heterogeneous White, Tan Fibrous Loosely Bound	95%	Cellulose	5%	Paint	None Detected
Layer 1 B240261.081B	Mastic	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
Layer 2 B240261.081B	Plaster	Homogeneous Gray Non-fibrous Bound			85%	Binder	None Detected
					15%	Vermiculite	
218 B240261.082A	Ceiling Tile	Heterogeneous White, Tan Fibrous Loosely Bound	95%	Cellulose	5%	Paint	None Detected
Layer 1 B240261.082B	Mastic	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
Layer 2 B240261.082B	Plaster	Homogeneous Gray Non-fibrous Bound			85%	Binder	None Detected
					15%	Vermiculite	
219 B240261.083A	Ceiling Tile	Heterogeneous White, Tan Fibrous Loosely Bound	95%	Cellulose	5%	Paint	None Detected
Layer 1 B240261.083B	Sample Submitted for TEM Analysis						

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
Layer 2 B240261.083B	Plaster	Homogeneous Gray Non-fibrous Bound	85%	Binder 15% Vermiculite	None Detected
220 B240261.084	Peanut Butter Mastic	Homogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
221 B240261.085	Peanut Butter Mastic	Homogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
222 B240261.086	Sample Submitted for TEM Analysis				
223 B240261.087	Mastic	Homogeneous Black Non-fibrous Bound	97%	Mastic	3% Chrysotile
224 B240261.088	Sample Not Analyzed per COC				
225 B240261.089	Sample Not Analyzed per COC				
226 B240261.090	Fireproofing	Homogeneous Gray Non-fibrous Bound	70% 30%	Binder Silicates	None Detected
227 B240261.091	Fireproofing	Homogeneous Gray Fibrous Bound	10% 70% 20%	Cellulose Binder Foam	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
228 B240261.092	Fireproofing	Homogeneous Gray Fibrous Bound	10%	Cellulose	70%	Binder	None Detected
					20%	Foam	
229 B240261.093	Fireproofing	Homogeneous Gray Fibrous Bound	10%	Cellulose	70%	Binder	None Detected
					20%	Foam	
230 B240261.094	Fireproofing	Homogeneous Gray Fibrous Bound	10%	Cellulose	70%	Binder	None Detected
					20%	Foam	
231 B240261.095	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	60%	Cellulose	15%	Perlite	None Detected
			20%	Fiberglass	5%	Paint	
232 B240261.096	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	60%	Cellulose	15%	Perlite	None Detected
			20%	Fiberglass	5%	Paint	
233 B240261.097	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	60%	Cellulose	15%	Perlite	None Detected
			20%	Fiberglass	5%	Paint	
234 B240261.098	Gypsum Ceiling Tile	Heterogeneous White, Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B240261v2
Date Received: 01-05-24
Date Analyzed: 01-08-24
Date Reported: 01-08-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
235 B240261.099	Gypsum Ceiling Tile	Heterogeneous White, Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
236 B240261.100	Gypsum Ceiling Tile	Heterogeneous White, Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
237 Layer 1 B240261.101	Surface Material	Heterogeneous White Non-fibrous Bound			63%	Binder	2% Chrysotile
					30%	Calc Carb	
					5%	Paint	
Layer 2 B240261.101	Window Caulking	Homogeneous Gray Non-fibrous Bound			100%	Caulk	<1% Chrysotile
					<1%	Paint	
238 Layer 1 B240261.102	Surface Material	Heterogeneous White Non-fibrous Bound			63%	Binder	2% Chrysotile
					30%	Calc Carb	
					5%	Paint	
Layer 2 B240261.102	Window Caulking	Homogeneous Gray Non-fibrous Bound			100%	Caulk	<1% Chrysotile
					<1%	Paint	
239 Layer 1 B240261.103	Surface Material	Heterogeneous White Non-fibrous Bound			63%	Binder	2% Chrysotile
					30%	Calc Carb	
					5%	Paint	
Layer 2 B240261.103	Sample Submitted for TEM Analysis						

LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.


Information provided by customer includes customer sample ID and sample description.

ANALYST:



Madelyn Schmidt

APPROVED BY:



Tianbao Bai, Ph.D., CIH
Laboratory Director

A version indicated by 'v' after the Lab ID# with a value greater than 1 indicates an amendment has occurred. The revised sample/description/ID is indicated by an *



730 S.E. Maynard Rd., Cary, NC 27511
 Tel: 919-481-1413; Fax: 919-481-1442

CHAIN OF CUSTODY

103

LAB USE ONLY:	
CEI Lab Code:	B240261 / T240019
CEI Lab I.D. Range:	

COMPANY CONTACT INFORMATION	
Company: CROSSROADS ENVIRONMENTAL, LLC	Client #:
Address: 1258 BOILING SPRINGS RD.	Job Contact: Kay H. Horton
SPARTANBURG, SC 29303	Email: RESULTS@CROSSROADSENV.NET
	Tel: 864-541-8736
Project Name: Byrnes HS- Phase III (Part II)	Fax: 864-541-8776
Project ID #: 23167-IN	P.O. #:

ASBESTOS	METHOD	4 HR*	8 HR*	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600			X			
TEM BULK	CHATFIELD			X			
PLM POINT COUNT (400)	EPA 600						
PLM POINT COUNT (1000)	EPA 600						
PLM GRAVIMETRIC	EPA 600						
PLM GRAV w POINT COUNT	EPA 600						
OTHER:							

POSITIVE STOP ANALYSIS	X
SOUTH CAROLINA SAMPLES	X
NORTH CAROLINA SAMPLES	

TEM INSTRUCTIONS	
BEGIN TEM ANALYSIS AFTER NEGATIVE PLM	X
ANALYZE TEM SAMPLES SIMULTANEOUSLY WITH PLM	

DO NOT STOP POSITIVE SURFACING MATERIAL			
			<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples
Relinquished By:	Date/Time	Received By:	Date/Time
<i>Haley</i>	1/4/2024 0:00	<i>CM</i>	01/05/24 9:30

*Call to confirm RUSH analysis.

Samples will be disposed of 30 days after analysis

8181 5032 8332



SAMPLING FORM

COMPANY CONTACT INFORMATION	
Crossroads Environmental, LLC	Job Contact: Kay H. Horton
Project Name: Brynes HS- Phase III	
Project ID #: 23167-IN	Tel: 864-541-8736

SAMPLE ID#	HA	DESCRIPTION / LOCATION	TEST			
			PLM	X	TEM	
132	40	12"x12' Off-White Vinyl Floor Tile w/ Gray Streaks	PLM	X	TEM	
133	40	12"x12' Off-White Vinyl Floor Tile w/ Gray Streaks	PLM	X	TEM	
134	40	12"x12' Off-White Vinyl Floor Tile w/ Gray Streaks	PLM		TEM	X
135	41	Brownish-Gray Covebase	PLM	X	TEM	
136	41	Brownish-Gray Covebase	PLM	X	TEM	
137	41	Brownish-Gray Covebase	PLM		TEM	X
138	42	Blue Stair Tread	PLM	X	TEM	
139	42	Blue Stair Tread	PLM	X	TEM	
140	42	Blue Stair Tread	PLM		TEM	X
141	43	2'x2' Ceiling Tile w/ Pinholes & Gashes	PLM	X	TEM	
142	43	2'x2' Ceiling Tile w/ Pinholes & Gashes	PLM	X	TEM	
143	43	2'x2' Ceiling Tile w/ Pinholes & Gashes	PLM	X	TEM	
144	44	12"x12" Beige Vinyl Floor Tile w/ Tan Streaks	PLM	X	TEM	
145	44	12"x12" Beige Vinyl Floor Tile w/ Tan Streaks	PLM	X	TEM	
146	44	12"x12" Beige Vinyl Floor Tile w/ Tan Streaks	PLM		TEM	X
147	45	12"x12" Yellow Vinyl Floor Tile	PLM	X	TEM	
148	45	12"x12" Yellow Vinyl Floor Tile	PLM	XX	TEM	
149	45	12"x12" Yellow Vinyl Floor Tile	PLM		TEM	X
150	46	2'x2' Ceiling Tile w/ Pinholes & Squiggles	PLM	X	TEM	
151	46	2'x2' Ceiling Tile w/ Pinholes & Squiggles	PLM	X	TEM	
152	46	2'x2' Ceiling Tile w/ Pinholes & Squiggles	PLM	X	TEM	
153	47	Dark Gray Covebase	PLM	X	TEM	
154	47	Dark Gray Covebase	PLM	X	TEM	
155	47	Dark Gray Covebase	PLM		TEM	X
156	48	12"x12" Gray Vinyl Floor Tile w/ Gray Streaks	PLM	X	TEM	
157	48	12"x12" Gray Vinyl Floor Tile w/ Gray Streaks	PLM	X	TEM	
158	48	12"x12" Gray Vinyl Floor Tile w/ Gray Streaks	PLM		TEM	X
159	49	12"x12" Sky Blue Vinyl Floor Tile	PLM	X	TEM	
160	49	12"x12" Sky Blue Vinyl Floor Tile	PLM	X	TEM	
161	49	12"x12" Sky Blue Vinyl Floor Tile	PLM		TEM	X
165	50	12"x12" Aqua Blue Vinyl Floor Tile	PLM	X	TEM	
166	50	12"x12" Aqua Blue Vinyl Floor Tile	PLM	X	TEM	
167	50	12"x12" Aqua Blue Vinyl Floor Tile	PLM		TEM	X



SAMPLING FORM

COMPANY CONTACT INFORMATION	
Crossroads Environmental, LLC	Job Contact: Kay H. Horton
Project Name: Brynes HS- Phase III	
Project ID #: 23167-IN	Tel: 864-541-8736

SAMPLE ID#	HA	DESCRIPTION / LOCATION	TEST			
			PLM	X	TEM	
168	51	12"x12" Royal Blue Vinyl Floor Tile	PLM	X	TEM	
169	51	12"x12" Royal Blue Vinyl Floor Tile	PLM	X	TEM	
170	51	12"x12" Royal Blue Vinyl Floor Tile	PLM		TEM	X
171	52	12"x12" Red Vinyl Floor Tile	PLM	X	TEM	
172	52	12"x12" Red Vinyl Floor Tile	PLM	X	TEM	
173	52	12"x12" Red Vinyl Floor Tile	PLM		TEM	X
174	53	12"x12" Black Vinyl Floor Tile	PLM	X	TEM	
175	53	12"x12" Black Vinyl Floor Tile	PLM	X	TEM	
176	53	12"x12" Black Vinyl Floor Tile	PLM		TEM	X
177	54	Carpet Glue Beneath Patterned Blue Carpet	PLM	X	TEM	
178	54	Carpet Glue Beneath Patterned Blue Carpet	PLM	X	TEM	
179	54	Carpet Glue Beneath Patterned Blue Carpet	PLM		TEM	X
180	55	Block Filler	PLM	X	TEM	
181	55	Block Filler	PLM	X	TEM	
182	55	Block Filler	PLM	X	TEM	
183	55	Block Filler	PLM	X	TEM	
184	55	Block Filler	PLM	X	TEM	
185	55	Block Filler	PLM	X	TEM	
186	55	Block Filler	PLM	X	TEM	
187	56	Drywall/Joint Compound	PLM	X	TEM	
188	56	Drywall/Joint Compound	PLM	X	TEM	
189	56	Drywall/Joint Compound	PLM	X	TEM	
190	56	Drywall/Joint Compound	PLM	X	TEM	
191	56	Drywall/Joint Compound	PLM	X	TEM	
194	57	12"x12" Dark Gray Vinyl Floor Tile	PLM	X	TEM	
195	57	12"x12" Dark Gray Vinyl Floor Tile	PLM	X	TEM	
196	57	12"x12" Dark Gray Vinyl Floor Tile	PLM		TEM	X
197	58	Gray Pebble-Patterned Vinyl Sheet Flooring	PLM	X	TEM	
198	58	Gray Pebble-Patterned Vinyl Sheet Flooring	PLM	X	TEM	
199	58	Gray Pebble-Patterned Vinyl Sheet Flooring	PLM		TEM	X
200	59	Plaster & Ceiling Texture	PLM	X	TEM	
201	59	Plaster & Ceiling Texture	PLM	X	TEM	
202	59	Plaster & Ceiling Texture	PLM	X	TEM	
203	59	Plaster & Ceiling Texture	PLM	X	TEM	



SAMPLING FORM

COMPANY CONTACT INFORMATION	
Crossroads Environmental, LLC	Job Contact: Kay H. Horton
Project Name: Brynes HS- Phase III	
Project ID #: 23167-IN	Tel: 864-541-8736

SAMPLE ID#	HA	DESCRIPTION / LOCATION	TEST			
			PLM	X	TEM	
204	59	Plaster & Ceiling Texture	PLM	X	TEM	
205	60	12"x12" Blue/Gray Vinyl Floor Tile	PLM	X	TEM	
206	60	12"x12" Blue/Gray Vinyl Floor Tile	PLM	X	TEM	
207	60	12"x12" Blue/Gray Vinyl Floor Tile	PLM		TEM	X
208	61	Blue/Gray Cove Base	PLM	X	TEM	
209	61	Blue/Gray Cove Base	PLM	X	TEM	
210	61	Blue/Gray Cove Base	PLM		TEM	X
211	62	Carpet Glue Beneath Blue/Multicolored Carpet	PLM	X	TEM	
212	62	Carpet Glue Beneath Blue/Multicolored Carpet	PLM	X	TEM	
213	62	Carpet Glue Beneath Blue/Multicolored Carpet	PLM		TEM	X
214	63	Gray Stair Tread	PLM	X	TEM	
215	63	Gray Stair Tread	PLM	X	TEM	
216	63	Gray Stair Tread	PLM		TEM	X
217	64	12"x12" Ceiling Tile w/ Hockey Puck Mastic	PLM	X	TEM	
218	64	12"x12" Ceiling Tile w/ Hockey Puck Mastic	PLM	X	TEM	
219	64	12"x12" Ceiling Tile w/ Hockey Puck Mastic	PLM		TEM	X
220	65	Peanut Butter Mastic	PLM	X	TEM	
221	65	Peanut Butter Mastic	PLM	X	TEM	
222	65	Peanut Butter Mastic	PLM		TEM	X
223	66	Black Mastic	PLM	X	TEM	
224	66	Black Mastic	PLM	X	TEM	
225	66	Black Mastic	PLM		TEM	X
226	67	Gray Fireproofing	PLM	X	TEM	
227	67	Gray Fireproofing	PLM	X	TEM	
228	67	Gray Fireproofing	PLM	X	TEM	
229	67	Gray Fireproofing	PLM	X	TEM	
230	67	Gray Fireproofing	PLM	X	TEM	
231	68	2'x2' Ceiling Tile w/ Pinholes	PLM	X	TEM	
232	68	2'x2' Ceiling Tile w/ Pinholes	PLM	X	TEM	
233	68	2'x2' Ceiling Tile w/ Pinholes	PLM	X	TEM	
234	69	2'x2' Gypsum Ceiling Tile	PLM	X	TEM	
235	69	2'x2' Gypsum Ceiling Tile	PLM	X	TEM	
236	69	2'x2' Gypsum Ceiling Tile	PLM	X	TEM	
237	70	Window Caulk	PLM	X	TEM	



SAMPLING FORM

COMPANY CONTACT INFORMATION	
Crossroads Environmental, LLC	Job Contact: Kay H. Horton
Project Name: Brynes HS- Phase III	
Project ID #: 23167-IN	Tel: 864-541-8736

SAMPLE ID#	HA	DESCRIPTION / LOCATION	TEST			
			PLM	X	TEM	
238	70	Window Caulk	PLM	X	TEM	
239	70	Window Caulk	PLM		TEM	X

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January 19, 2024

Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

CLIENT PROJECT: 23167-IN
CEI LAB CODE: B240927

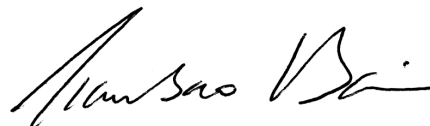
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 18, 2024. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

Crossroads Environmental

CLIENT PROJECT: 23167-IN

LAB CODE: B240927

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 01/19/24

TOTAL SAMPLES ANALYZED: 6

SAMPLES >1% ASBESTOS: 3



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 23167-IN

LAB CODE: B240927

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
325		B240927.01	Black,Gray	Equipment Flashing	Chrysotile 20%
326		B240927.02		Sample Not Analyzed per COC	
327		B240927.03		Sample Not Analyzed per COC	
328	Layer 1	B240927.04	Black	Flat Roof Field	None Detected
	Layer 2	B240927.04	Black	Flat Roof Field	None Detected
	Layer 3	B240927.04	Brown	Insulation	None Detected
	Layer 4	B240927.04	White	Drywall	None Detected
329	Layer 1	B240927.05	Black	Flat Roof Field	None Detected
	Layer 2	B240927.05	Black	Flat Roof Field	None Detected
	Layer 3	B240927.05	Brown	Insulation	None Detected
	Layer 4	B240927.05	White	Drywall	None Detected
330	Layer 1	B240927.06		Sample Submitted for TEM Analysis	
	Layer 2	B240927.06		Sample Submitted for TEM Analysis	
	Layer 3	B240927.06	Brown	Insulation	None Detected
	Layer 4	B240927.06	White	Drywall	None Detected
331	Layer 1	B240927.07	Black	Barrel Roof Field	Chrysotile 10%
	Layer 2	B240927.07	Brown	Insulation	None Detected
	Layer 3	B240927.07	White	Drywall	None Detected
332		B240927.08		Sample Not Analyzed per COC	
333		B240927.09		Sample Not Analyzed per COC	
334	Layer 1	B240927.10	Black	Perimeter Flashing	None Detected
	Layer 2	B240927.10	Black, Yellow	Perimeter Flashing	Chrysotile 10%
	Layer 3	B240927.10	White	Drywall	None Detected
335		B240927.11		Sample Not Analyzed per COC	
336		B240927.12		Sample Not Analyzed per COC	



CEI

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: B240927
Date Received: 01-18-24
Date Analyzed: 01-18-24
Date Reported: 01-19-24

Project: 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Non-Fibrous			
325 B240927.01	Equipment Flashing	Heterogeneous Black, Gray Non-fibrous Bound	10%	Cellulose	70%	Tar	20% Chrysotile
326 B240927.02	Sample Not Analyzed per COC						
327 B240927.03	Sample Not Analyzed per COC						
328 Layer 1 B240927.04	Flat Roof Field	Heterogeneous Black Non-fibrous Bound	30%	Fiberglass	68%	Tar 2% Gravel	None Detected
Layer 2 B240927.04	Flat Roof Field	Heterogeneous Black Non-fibrous Bound	30%	Cellulose	68%	Tar 2% Gravel	None Detected
Layer 3 B240927.04	Insulation	Homogeneous Brown Fibrous Loosely Bound	90%	Cellulose	10%	Perlite	None Detected
Layer 4 B240927.04	Drywall	Homogeneous White Non-fibrous Bound			100%	Gypsum	None Detected
329 Layer 1 B240927.05	Flat Roof Field	Heterogeneous Black Non-fibrous Bound	30%	Fiberglass	68%	Tar 2% Gravel	None Detected



CEI

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: B240927
Date Received: 01-18-24
Date Analyzed: 01-18-24
Date Reported: 01-19-24

Project: 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
Layer 2 B240927.05	Flat Roof Field	Heterogeneous Black Non-fibrous Bound	30%	Cellulose	68%	Tar 2% Gravel	None Detected
Layer 3 B240927.05	Insulation	Homogeneous Brown Fibrous Loosely Bound	90%	Cellulose	10%	Perlite	None Detected
Layer 4 B240927.05	Drywall	Homogeneous White Non-fibrous Bound			100%	Gypsum	None Detected
330 Layer 1 B240927.06	Sample Submitted for TEM Analysis						
Layer 2 B240927.06	Sample Submitted for TEM Analysis						
Layer 3 B240927.06	Insulation	Homogeneous Brown Fibrous Loosely Bound	90%	Cellulose	10%	Perlite	None Detected
Layer 4 B240927.06	Drywall	Homogeneous White Non-fibrous Bound			100%	Gypsum	None Detected
331 Layer 1 B240927.07	Barrel Roof Field	Heterogeneous Black Non-fibrous Bound	20%	Fiberglass	68%	Tar 2% Gravel	10% Chrysotile



CEI

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: B240927
Date Received: 01-18-24
Date Analyzed: 01-18-24
Date Reported: 01-19-24

Project: 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
Layer 2 B240927.07	Insulation	Homogeneous Brown Fibrous Loosely Bound	90%	Cellulose	10%	Perlite	None Detected
Layer 3 B240927.07	Drywall	Homogeneous White Non-fibrous Bound			100%	Gypsum	None Detected
332 B240927.08	Sample Not Analyzed per COC						
333 B240927.09	Sample Not Analyzed per COC						
Layer 1 B240927.10	Perimeter Flashing	Heterogeneous Black Non-fibrous Bound	30%	Fiberglass	68%	Tar Gravel	None Detected
Layer 2 B240927.10	Perimeter Flashing	Heterogeneous Black, Yellow Non-fibrous Bound			90%	Tar	10% Chrysotile
Layer 3 B240927.10	Drywall	Homogeneous White Non-fibrous Bound			100%	Gypsum	None Detected
335 B240927.11	Sample Not Analyzed per COC						
336 B240927.12	Sample Not Analyzed per COC						

LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

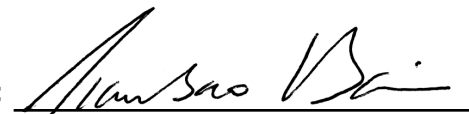
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST:


Nicholas Moore

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director



CROSSROADS ENVIRONMENTAL, LLC
 Sample Chain of Custody
 1258 Boiling Springs Road
 Spartanburg, SC 29303
 Phone (864) 541-8736
 Fax (864) 541-8776
 results@crossroadsenv.net

Date Sent: 1/16/24
 Project ID#: 23167-IN
 Submitted to: CEI
 Number of Samples: 12
 Fax Results: email
 Shipping Info: #

Type of Analysis:

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM	PLM	TEM	AAS	Other
Air	Bulk	Air	Chips/	
		Bulk	Wipes	
			Water	

Turn Around:

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24 HR	48 HR	72 HR	5 Day

Other: _____

Special Instructions:

Stop Positive PLM any layers not TEM'd

Sample ID#	DESCRIPTION OF SAMPLE	COMMENTS
T 325	Equipment Flashing ↓	PLM
326		PLM
327		TEM
T 328	Flt Roof Field ↓	PLM
329		PLM
330		TEM
331	Barrel Roof Field ↓	PLM
332		PLM
333		TEM
I 334	Perimeter Flashing ↓	PLM
335		PLM
336		TEM
	SCSD #5	

EUROINS CEI, INC
 SAMPLES ACCEPTED

Signature & Date of Handlers:

Relinquished By: [Signature] Received By: AW 01/18/24 11:50
 Relinquished By: _____ Received By: _____
 Relinquished By: _____ Received By: _____

81820959 5857

White: Lab Yellow: File

January 23, 2024

Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

CLIENT PROJECT: Byrnes Phase III (Cont.), 23167-IN
CEI LAB CODE: B241161

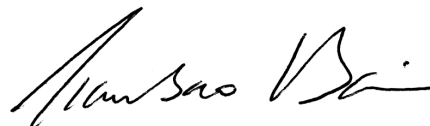
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 22, 2024. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

Crossroads Environmental

CLIENT PROJECT: Byrnes Phase III (Cont.), 23167-IN

LAB CODE: B241161

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 01/23/24

TOTAL SAMPLES ANALYZED: 19

SAMPLES >1% ASBESTOS: 4



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes Phase III (Cont.), 23167-IN

LAB CODE: B241161

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
240		B241161.01	White,Gray	Thin Interior Glaze	Chrysotile <1%
241		B241161.02	White,Gray	Thin Interior Glaze	Chrysotile <1%
242		B241161.03		Sample Submitted for TEM Analysis	
243		B241161.04	White,Tan	Expansion Caulk	None Detected
244	Layer 1	B241161.05	White	Expansion Caulk	None Detected
	Layer 2	B241161.05	White	Mud	Chrysotile 2%
245		B241161.06		Sample Not Analyzed per COC	
246	Layer 1	B241161.07	White	Interior Door Caulk	None Detected
	Layer 2	B241161.07	White	Mud	Chrysotile 2%
247		B241161.08		Sample Not Analyzed per COC	
248		B241161.09		Sample Not Analyzed per COC	
249		B241161.10	White	Interior Door Caulk	None Detected
250	Layer 1	B241161.11	White	Interior Door Caulk	None Detected
	Layer 2	B241161.11	Gray	Cementitious Material	None Detected
251		B241161.12		Sample Submitted for TEM Analysis	
252		B241161.13	Gray	Putty-like Window Caulk	None Detected
253		B241161.14	Gray	Putty-like Window Caulk	None Detected
254		B241161.15		Sample Submitted for TEM Analysis	
255		B241161.16	Gray	Window Caulk	None Detected
256		B241161.17	Gray	Window Caulk	Chrysotile 5%
257		B241161.18		Sample Not Analyzed per COC	
258		B241161.19	Black,Gray	Exterior Door Caulk	Chrysotile 2%
259		B241161.20		Sample Not Analyzed per COC	
260		B241161.21		Sample Not Analyzed per COC	
261	Layer 1	B241161.22	White	Exterior Stucco Skim Coat	None Detected
	Layer 2	B241161.22	Gray	Exterior Stucco Base Coat	None Detected
262	Layer 1	B241161.23	White	Exterior Stucco Skim Coat	None Detected
	Layer 2	B241161.23	Gray	Exterior Stucco Base Coat	None Detected
263	Layer 1	B241161.24	White	Exterior Stucco Skim Coat	None Detected



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes Phase III (Cont.), 23167-IN

LAB CODE: B241161

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
	Layer 2	B241161.24	Gray	Exterior Stucco Base Coat	None Detected
264	Layer 1	B241161.25	White	Exterior Stucco Skim Coat	None Detected
	Layer 2	B241161.25	Gray	Exterior Stucco Base Coat	None Detected
265	Layer 1	B241161.26	White	Exterior Stucco Skim Coat	None Detected
	Layer 2	B241161.26	Gray	Exterior Stucco Base Coat	None Detected
266	Layer 1	B241161.27	White	Exterior Stucco Skim Coat	None Detected
	Layer 2	B241161.27	Gray	Exterior Stucco Base Coat	None Detected
267	Layer 1	B241161.28	White	Exterior Stucco Skim Coat	None Detected
	Layer 2	B241161.28	Gray	Exterior Stucco Base Coat	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B241161
Date Received: 01-22-24
Date Analyzed: 01-23-24
Date Reported: 01-23-24

Project: Byrnes Phase III (Cont.), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
240 B241161.01	Thin Interior Glaze	Heterogeneous	80%	Binder	<1% Chrysotile
		White, Gray	20%	Calc Carb	
		Non-fibrous	<1%	Paint	
		Bound			
241 B241161.02	Thin Interior Glaze	Heterogeneous	80%	Binder	<1% Chrysotile
		White, Gray	20%	Calc Carb	
		Non-fibrous	<1%	Paint	
		Bound			
242 B241161.03	Sample Submitted for TEM Analysis				
243 B241161.04	Expansion Caulk	Heterogeneous	100%	Caulk	None Detected
		White, Tan	<1%	Paint	
		Non-fibrous			
		Bound			
244 Layer 1 B241161.05	Expansion Caulk	Heterogeneous	100%	Caulk	None Detected
		White	<1%	Paint	
		Non-fibrous			
		Bound			
Layer 2 B241161.05	Mud	Homogeneous	58%	Binder	2% Chrysotile
		White	40%	Calc Carb	
		Non-fibrous			
		Bound			
245 B241161.06	Sample Not Analyzed per COC				
246 Layer 1 B241161.07	Interior Door Caulk	Heterogeneous	100%	Caulk	None Detected
		White	<1%	Paint	
		Non-fibrous			
		Bound			

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B241161
Date Received: 01-22-24
Date Analyzed: 01-23-24
Date Reported: 01-23-24

Project: Byrnes Phase III (Cont.), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
Layer 2 B241161.07	Mud	Homogeneous White Non-fibrous Bound	58% 40%	Binder Calc Carb	2% Chrysotile
247 B241161.08	Sample Not Analyzed per COC				
248 B241161.09	Sample Not Analyzed per COC				
249 B241161.10	Interior Door Caulk	Homogeneous White Non-fibrous Bound	100%	Caulk	None Detected
250 Layer 1 B241161.11	Interior Door Caulk	Heterogeneous White Non-fibrous Bound	100% <1%	Caulk Paint	None Detected
Layer 2 B241161.11	Cementitious Material	Homogeneous Gray Non-fibrous Bound	70% 30%	Silicates Binder	None Detected
251 B241161.12	Sample Submitted for TEM Analysis				
252 B241161.13	Putty-like Window Caulk	Homogeneous Gray Non-fibrous Bound	100%	Caulk	None Detected
253 B241161.14	Putty-like Window Caulk	Homogeneous Gray Non-fibrous Bound	100%	Caulk	None Detected



CEI

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: B241161
Date Received: 01-22-24
Date Analyzed: 01-23-24
Date Reported: 01-23-24

Project: Byrnes Phase III (Cont.), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
254 B241161.15	Sample Submitted for TEM Analysis						
255 B241161.16	Window Caulk	Homogeneous Gray Non-fibrous Bound	5%	Talc	95%	Caulk	None Detected
256 B241161.17	Window Caulk	Homogeneous Gray Non-fibrous Bound			95%	Caulk	5% Chrysotile
257 B241161.18	Sample Not Analyzed per COC						
258 B241161.19	Exterior Door Caulk	Homogeneous Black, Gray Non-fibrous Bound	5%	Talc	73%	Binder Calc Carb Paint	2% Chrysotile
259 B241161.20	Sample Not Analyzed per COC						
260 B241161.21	Sample Not Analyzed per COC						
261 Layer 1 B241161.22	Exterior Stucco Skim Coat	Heterogeneous White Non-fibrous Bound			80%	Binder Calc Carb Paint	None Detected
Layer 2 B241161.22	Exterior Stucco Base Coat	Homogeneous Gray Non-fibrous Bound			70%	Silicates Binder	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B241161
Date Received: 01-22-24
Date Analyzed: 01-23-24
Date Reported: 01-23-24

Project: Byrnes Phase III (Cont.), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
262 Layer 1 B241161.23	Exterior Stucco Skim Coat	Heterogeneous	80%	Binder	None Detected
		White	20%	Calc Carb	
		Non-fibrous	<1%	Paint	
		Bound			
Layer 2 B241161.23	Exterior Stucco Base Coat	Homogeneous	70%	Silicates	None Detected
		Gray	30%	Binder	
		Non-fibrous			
		Bound			
263 Layer 1 B241161.24	Exterior Stucco Skim Coat	Heterogeneous	80%	Binder	None Detected
		White	20%	Calc Carb	
		Non-fibrous	<1%	Paint	
		Bound			
Layer 2 B241161.24	Exterior Stucco Base Coat	Homogeneous	70%	Silicates	None Detected
		Gray	30%	Binder	
		Non-fibrous			
		Bound			
264 Layer 1 B241161.25	Exterior Stucco Skim Coat	Heterogeneous	80%	Binder	None Detected
		White	20%	Calc Carb	
		Non-fibrous	<1%	Paint	
		Bound			
Layer 2 B241161.25	Exterior Stucco Base Coat	Homogeneous	70%	Silicates	None Detected
		Gray	30%	Binder	
		Non-fibrous			
		Bound			
265 Layer 1 B241161.26	Exterior Stucco Skim Coat	Heterogeneous	80%	Binder	None Detected
		White	20%	Calc Carb	
		Non-fibrous	<1%	Paint	
		Bound			



CEI

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: B241161
Date Received: 01-22-24
Date Analyzed: 01-23-24
Date Reported: 01-23-24

Project: Byrnes Phase III (Cont.), 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
Layer 2 B241161.26	Exterior Stucco Base Coat	Homogeneous Gray Non-fibrous Bound	70%	Silicates Binder	None Detected
266 Layer 1 B241161.27	Exterior Stucco Skim Coat	Heterogeneous White Non-fibrous Bound	80%	Binder Calc Carb Paint	None Detected
Layer 2 B241161.27	Exterior Stucco Base Coat	Homogeneous Gray Non-fibrous Bound	70%	Silicates Binder	None Detected
267 Layer 1 B241161.28	Exterior Stucco Skim Coat	Heterogeneous White Non-fibrous Bound	80%	Binder Calc Carb Paint	None Detected
Layer 2 B241161.28	Exterior Stucco Base Coat	Homogeneous Gray Non-fibrous Bound	70%	Silicates Binder	None Detected

LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

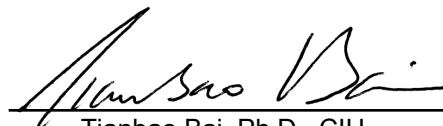
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST:


Ryan Steele

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director





730 S.E. Maynard Rd., Cary, NC 27511
 Tel: 919-481-1413; Fax: 919-481-1442

CHAIN OF CUSTODY

28

LAB USE ONLY:	
CEI Lab Code:	B241161 / T2410083
CEI Lab I.D. Range:	

COMPANY CONTACT INFORMATION	
Company: CROSSROADS ENVIRONMENTAL, LLC	Client #:
Address: 1258 BOILING SPRINGS RD. SPARTANBURG, SC 29303	Job Contact: Kay H. Horton Email: RESULTS@CROSSROADSENV.NET Tel: 864-541-8736
Project Name: Byrnes Phase III (Cont.)	Fax: 864-541-8776
Project ID #: 23167-IN	P.O. #:

ASBESTOS	METHOD	4 HR*	8 HR*	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600			X			
TEM BULK	CHATFIELD			X			
PLM POINT COUNT (400)	EPA 600						
PLM POINT COUNT (1000)	EPA 600						
PLM GRAVIMETRIC	EPA 600						
PLM GRAV w POINT COUNT	EPA 600						
OTHER:							

POSITIVE STOP ANALYSIS	X
SOUTH CAROLINA SAMPLES	X
NORTH CAROLINA SAMPLES	

TEM INSTRUCTIONS	
BEGIN TEM ANALYSIS AFTER NEGATIVE PLM	X
ANALYZE TEM SAMPLES SIMULTANEOUSLY WITH PLM	

DO NOT STOP POSITIVE SURFACING MATERIAL			
			<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples
Relinquished By:	Date/Time	Received By:	Date/Time
<i>Haley</i>	1/17/2024 0:00	<i>MM</i>	01/22/24 9:40

*Call to confirm RUSH analysis.

8182 0959 5846
 Page 1 of 4

Samples will be disposed of 30 days after analysis



SAMPLING FORM

COMPANY CONTACT INFORMATION	
Crossroads Environmental, LLC	Job Contact: Kay H. Horton
Project Name: Byrnes Phase III (Cont.)	
Project ID #: 23167-IN	Tel: 864-541-8736

SAMPLE ID#	HA	DESCRIPTION / LOCATION	TEST			
			PLM	X	TEM	
240	71	Thin Interior Glaze	PLM	X	TEM	
241	71	Thin Interior Glaze	PLM	X	TEM	
242	71	Thin Interior Glaze	PLM		TEM	X
243	72	Expansion Caulk	PLM	X	TEM	
244	72	Expansion Caulk	PLM	X	TEM	
245	72	Expansion Caulk	PLM		TEM	X
246	73	Interior Door Caulk (Thicker)	PLM	X	TEM	
247	73	Interior Door Caulk (Thicker)	PLM	X	TEM	
248	73	Interior Door Caulk (Thicker)	PLM		TEM	X
249	74	Interior Door Caulk (Thin)	PLM	X	TEM	
250	74	Interior Door Caulk (Thin)	PLM	X	TEM	
251	74	Interior Door Caulk (Thin)	PLM		TEM	X
252	75	Gray Putty-Like Window Caulk	PLM	X	TEM	
253	75	Gray Putty-Like Window Caulk	PLM	X	TEM	
254	75	Gray Putty-Like Window Caulk	PLM		TEM	X
255	76	Gray Window Caulk	PLM	X	TEM	
256	76	Gray Window Caulk	PLM	X	TEM	
257	76	Gray Window Caulk	PLM		TEM	X
258	77	Exterior Door Caulk	PLM	X	TEM	
259	77	Exterior Door Caulk	PLM	X	TEM	
260	77	Exterior Door Caulk	PLM		TEM	X
261	78	Exterior Stucco	PLM	X	TEM	
262	78	Exterior Stucco	PLM	X	TEM	
263	78	Exterior Stucco	PLM	X	TEM	
264	78	Exterior Stucco	PLM	X	TEM	
265	78	Exterior Stucco	PLM	X	TEM	
266	78	Exterior Stucco	PLM	X	TEM	
267	78	Exterior Stucco	PLM	X	TEM	

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November 14, 2023

Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

CLIENT PROJECT: Byrnes HS - Phase III Demo, 23167-IN
CEI LAB CODE: B2323846

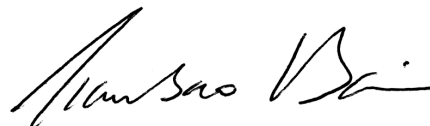
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on November 13, 2023. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

Crossroads Environmental

CLIENT PROJECT: Byrnes HS - Phase III Demo, 23167-IN

LAB CODE: B2323846

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 11/14/23

TOTAL SAMPLES ANALYZED: 97

SAMPLES >1% ASBESTOS: 8

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes HS - Phase III Demo, 23167-IN

LAB CODE: B2323846

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001		B2323846.001A	Off-white,Gray	Floor Tile	None Detected
		B2323846.001B	Black	Mastic	None Detected
002		B2323846.002A	Off-white,Gray	Floor Tile	None Detected
		B2323846.002B	Black	Mastic	None Detected
003		B2323846.003A		Sample Submitted for TEM Analysis	
		B2323846.003B		Sample Submitted for TEM Analysis	
004		B2323846.004	Beige	Carpet Glue	None Detected
005		B2323846.005	Beige	Carpet Glue	None Detected
006		B2323846.006		Sample Submitted for TEM Analysis	
007		B2323846.007	White	Ceiling Tile	None Detected
008		B2323846.008	White	Ceiling Tile	None Detected
009		B2323846.009	White	Ceiling Tile	None Detected
010		B2323846.010	White	Ceiling Tile	None Detected
011		B2323846.011	White	Ceiling Tile	None Detected
012		B2323846.012	White	Ceiling Tile	None Detected
013		B2323846.013A	Beige,Gray	Floor Tile	Chrysotile 3%
		B2323846.013B	Black	Mastic	Chrysotile 5%
014		B2323846.014		Sample Not Analyzed per COC	
015		B2323846.015		Sample Not Analyzed per COC	
016		B2323846.016A	Gray	Floor Tile	None Detected
		B2323846.016B	Yellow	Mastic	None Detected
017		B2323846.017A	Gray	Floor Tile	None Detected
		B2323846.017B	Yellow	Mastic	None Detected
018		B2323846.018A		Sample Submitted for TEM Analysis	
		B2323846.018B		Sample Submitted for TEM Analysis	
019		B2323846.019A	Gray	Covebase	None Detected
		B2323846.019B	Clear,Yellow	Mastic	None Detected

PROJECT: Byrnes HS - Phase III Demo, 23167-IN

LAB CODE: B2323846

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
020		B2323846.020A	Gray	Covebase	None Detected
		B2323846.020B	Clear, Yellow	Mastic	None Detected
021		B2323846.021A		Sample Submitted for TEM Analysis	
		B2323846.021B		Sample Submitted for TEM Analysis	
025		B2323846.022A	Black	Covebase	None Detected
		B2323846.022B	Brown	Mastic	None Detected
026		B2323846.023A	Black	Covebase	None Detected
		B2323846.023B	Brown	Mastic	None Detected
027		B2323846.024A		Sample Submitted for TEM Analysis	
		B2323846.024B		Sample Submitted for TEM Analysis	
028		B2323846.025A	Blue	Floor Tile	None Detected
		B2323846.025B	Yellow	Mastic	None Detected
029		B2323846.026A	Blue	Floor Tile	None Detected
		B2323846.026B	Yellow	Mastic	None Detected
030		B2323846.027A		Sample Submitted for TEM Analysis	
		B2323846.027B		Sample Submitted for TEM Analysis	
031		B2323846.028A	Blue	Floor Tile	None Detected
		B2323846.028B	Yellow, Black	Mastic	Chrysotile 3%
032		B2323846.029A	Blue	Floor Tile	None Detected
		B2323846.029B		Sample Not Analyzed per COC	
033		B2323846.030A		Sample Submitted for TEM Analysis	
		B2323846.030B		Sample Not Analyzed per COC	
034		B2323846.031A	Gray, Blue	Floor Tile	None Detected
		B2323846.031B	Yellow, Black	Mastic	Chrysotile 3%
035		B2323846.032A	Gray, Blue	Floor Tile	None Detected
		B2323846.032B		Sample Not Analyzed per COC	



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Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes HS - Phase III Demo, 23167-IN

LAB CODE: B2323846

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
036		B2323846.033A		Sample Submitted for TEM Analysis	
		B2323846.033B		Sample Not Analyzed per COC	
037		B2323846.034A	Tan	Floor Tile	None Detected
		B2323846.034B	Black	Mastic	Chrysotile 2%
038		B2323846.035A	Tan	Floor Tile	None Detected
		B2323846.035B		Sample Not Analyzed per COC	
039		B2323846.036A		Sample Submitted for TEM Analysis	
		B2323846.036B		Sample Not Analyzed per COC	
040		B2323846.037	Yellow	Carpet Glue	None Detected
041		B2323846.038	Yellow	Carpet Glue	None Detected
042		B2323846.039		Sample Submitted for TEM Analysis	
043	Layer 1	B2323846.040	White	Joint Compound	None Detected
	Layer 2	B2323846.040	White, Tan	Drywall	None Detected
044	Layer 1	B2323846.041	White	Joint Compound	None Detected
	Layer 2	B2323846.041	White, Tan	Drywall	None Detected
045	Layer 1	B2323846.042	White	Joint Compound	None Detected
	Layer 2	B2323846.042	White, Tan	Drywall	None Detected
046	Layer 1	B2323846.043	White	Joint Compound	None Detected
	Layer 2	B2323846.043	White, Tan	Drywall	None Detected
047	Layer 1	B2323846.044	White	Joint Compound	None Detected
	Layer 2	B2323846.044	White, Tan	Drywall	None Detected
048	Layer 1	B2323846.045	White	Joint Compound	None Detected
	Layer 2	B2323846.045	White, Tan	Drywall	None Detected
049	Layer 1	B2323846.046	White	Joint Compound	None Detected
	Layer 2	B2323846.046	White, Tan	Drywall	None Detected
050		B2323846.047A	Gray	Covebase	None Detected
		B2323846.047B	Beige	Mastic	None Detected
051		B2323846.048A	Gray	Covebase	None Detected
		B2323846.048B	Beige	Mastic	None Detected



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Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes HS - Phase III Demo, 23167-IN

LAB CODE: B2323846

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
052		B2323846.049A		Sample Submitted for TEM Analysis	
		B2323846.049B		Sample Submitted for TEM Analysis	
053		B2323846.050	White	Ceiling Tile	None Detected
054		B2323846.051	White	Ceiling Tile	None Detected
055		B2323846.052	White	Ceiling Tile	None Detected
056		B2323846.053	Gray	Duct Mastic	None Detected
057		B2323846.054	Gray	Duct Mastic	None Detected
058		B2323846.055		Sample Submitted for TEM Analysis	
059		B2323846.056	Yellow,Black	Carpet Glue	None Detected
060		B2323846.057	Yellow,Black	Carpet Glue	None Detected
061		B2323846.058		Sample Submitted for TEM Analysis	
061	Layer 1	B2323846.059A	Yellow	Mastic	None Detected
	Layer 2	B2323846.059A	Tan,White	Floor Tile	None Detected
		B2323846.059B	Yellow,Black	Mastic	None Detected
062	Layer 1	B2323846.060A	Yellow	Mastic	None Detected
	Layer 2	B2323846.060A	Tan,White	Floor Tile	None Detected
		B2323846.060B	Yellow,Black	Mastic	None Detected
063	Layer 1	B2323846.061A		Sample Submitted for TEM Analysis	
	Layer 2	B2323846.061A		Sample Submitted for TEM Analysis	
		B2323846.061B		Sample Submitted for TEM Analysis	
065		B2323846.062A	Dark Blue	Covebase	None Detected
		B2323846.062B	Yellow,Black /Brown	Mastic	None Detected
066		B2323846.063A	Dark Blue	Covebase	None Detected
		B2323846.063B	Yellow,Brown	Mastic	None Detected



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Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes HS - Phase III Demo, 23167-IN

LAB CODE: B2323846

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
067		B2323846.064A		Sample Submitted for TEM Analysis	
		B2323846.064B		Sample Submitted for TEM Analysis	
068		B2323846.065	Off-white	Plaster	None Detected
069		B2323846.066	Off-white	Plaster	None Detected
070		B2323846.067	Off-white	Plaster	None Detected
071		B2323846.068	Off-white	Plaster	None Detected
072		B2323846.069	Off-white	Plaster	None Detected
073		B2323846.070	Gray	Interior Window Caulk	Chrysotile 3%
074		B2323846.071		Sample Not Analyzed per COC	
075		B2323846.072		Sample Not Analyzed per COC	
076		B2323846.073A	Brown,Gray	Covebase	None Detected
		B2323846.073B	Yellow	Mastic	None Detected
077		B2323846.074A	Brown,Gray	Covebase	None Detected
		B2323846.074B	Yellow	Mastic	None Detected
078		B2323846.075A		Sample Submitted for TEM Analysis	
		B2323846.075B		Sample Submitted for TEM Analysis	
079		B2323846.076A	Black	Chalkboard Mastic	Chrysotile 5%
		B2323846.076B	Gray	Plaster	None Detected
080		B2323846.077A		Sample Not Analyzed per COC	
		B2323846.077B	Gray	Plaster	None Detected
081		B2323846.078A		Sample Not Analyzed per COC	
		B2323846.078B	Gray	Plaster	None Detected
082	Layer 1	B2323846.079A	Yellow	Chalkboard Mastic	None Detected
	Layer 2	B2323846.079A	Tan	Backer	None Detected
		B2323846.079B	Yellow	Mastic	None Detected
		B2323846.079C	Gray	Plaster	None Detected
083	Layer 1	B2323846.080A	Yellow	Chalkboard Mastic	None Detected
	Layer 2	B2323846.080A	Tan	Backer	None Detected



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Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes HS - Phase III Demo, 23167-IN

LAB CODE: B2323846

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
		B2323846.080B	Yellow	Mastic	None Detected
		B2323846.080C	Gray	Plaster	None Detected
084	Layer 1	B2323846.081A		Sample Submitted for TEM Analysis	
	Layer 2	B2323846.081A		Sample Submitted for TEM Analysis	
		B2323846.081B		Sample Submitted for TEM Analysis	
		B2323846.081C	Gray	Plaster	None Detected
085		B2323846.082A	Gray,Off-white	Vinyl Floor Tile	None Detected
		B2323846.082B	Black	Mastic	None Detected
086		B2323846.083A	Gray,Off-white	Vinyl Floor Tile	None Detected
		B2323846.083B	Black	Mastic	None Detected
087		B2323846.084A		Sample Submitted for TEM Analysis	
		B2323846.084B		Sample Submitted for TEM Analysis	
088		B2323846.085A	Green	Vinyl Floor Tile	None Detected
		B2323846.085B	Black	Mastic	None Detected
089		B2323846.086A	Green	Vinyl Floor Tile	None Detected
		B2323846.086B	Black	Mastic	None Detected
090		B2323846.087A		Sample Submitted for TEM Analysis	
		B2323846.087B		Sample Submitted for TEM Analysis	
090		B2323846.088	White	Duct Mastic	None Detected
091		B2323846.089	White	Duct Mastic	None Detected
092		B2323846.090		Sample Submitted for TEM Analysis	
094		B2323846.091A	Black	Covebase	None Detected
		B2323846.091B	Yellow,Brown	Mastic	None Detected
095		B2323846.092A	Black	Covebase	None Detected
		B2323846.092B	Yellow,Brown	Mastic	None Detected

PROJECT: Byrnes HS - Phase III Demo, 23167-IN

LAB CODE: B2323846

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
096		B2323846.093A		Sample Submitted for TEM Analysis	
		B2323846.093B		Sample Submitted for TEM Analysis	
097		B2323846.094A	Brown	Covebase	None Detected
		B2323846.094B	Yellow,Brown	Mastic	None Detected
098		B2323846.095A	Brown	Covebase	None Detected
		B2323846.095B	Yellow,Brown	Mastic	None Detected
099		B2323846.096A		Sample Submitted for TEM Analysis	
		B2323846.096B		Sample Submitted for TEM Analysis	
100		B2323846.097	Black	Mastic	Chrysotile 10%
101		B2323846.098		Sample Not Analyzed per COC	
102		B2323846.099		Sample Not Analyzed per COC	
103		B2323846.100	White,Tan	Gypsum Ceiling Tile	None Detected
104		B2323846.101	White,Tan	Gypsum Ceiling Tile	None Detected
105		B2323846.102	White,Tan	Gypsum Ceiling Tile	None Detected
106		B2323846.103	White,Gray	Block Filler	None Detected
107		B2323846.104	White	Block Filler	None Detected
108		B2323846.105	Red,Off-white	Block Filler	Chrysotile <1%
109		B2323846.106	White,Gray	Block Filler	None Detected
110		B2323846.107	White,Light Blue	Block Filler	None Detected
111		B2323846.108	White,Blue	Block Filler	None Detected
112		B2323846.109	White	Block Filler	None Detected
113		B2323846.110	Yellow	Carpet Glue	None Detected
114		B2323846.111	Yellow	Carpet Glue	None Detected
115		B2323846.112		Sample Submitted for TEM Analysis	
116		B2323846.113	Brown	Duct Mastic	None Detected
117		B2323846.114	Brown	Duct Mastic	None Detected



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Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Byrnes HS - Phase III Demo, 23167-IN

LAB CODE: B2323846

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
118		B2323846.115		Sample Submitted for TEM Analysis	
119		B2323846.116	Red	Duct Mastic	None Detected
120		B2323846.117	Red	Duct Mastic	None Detected
121		B2323846.118		Sample Submitted for TEM Analysis	
122		B2323846.119	Gray	Fireproofing	None Detected
123		B2323846.120	Gray	Fireproofing	None Detected
124		B2323846.121	Gray	Fireproofing	None Detected
125		B2323846.122	Gray	Fireproofing	None Detected
126		B2323846.123	Gray	Fireproofing	None Detected
127		B2323846.124	Gray	Fireproofing	None Detected
128		B2323846.125	Gray	Fireproofing	None Detected
129		B2323846.126	Gray	Expansion Caulk	None Detected
130		B2323846.127	Gray	Expansion Caulk	None Detected
131		B2323846.128		Sample Submitted for TEM Analysis	

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B2323846
Date Received: 11-13-23
Date Analyzed: 11-14-23
Date Reported: 11-14-23

Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
001 B2323846.001 A	Floor Tile	Homogeneous Off-white, Gray Non-fibrous Bound	100%	Vinyl	None Detected
Samples B2323846.001-.061 analyzed by Z. Heinz.					
B2323846.001 B	Mastic	Homogeneous Black Non-fibrous Bound	100%	Mastic	None Detected
002 B2323846.002 A	Floor Tile	Homogeneous Off-white, Gray Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.002 B	Mastic	Homogeneous Black Non-fibrous Bound	100%	Mastic	None Detected
003 B2323846.003 A	Sample Submitted for TEM Analysis				
B2323846.003 B	Sample Submitted for TEM Analysis				
004 B2323846.004	Carpet Glue	Homogeneous Beige Non-fibrous Bound	100%	Mastic	None Detected
005 B2323846.005	Carpet Glue	Homogeneous Beige Non-fibrous Bound	100%	Mastic	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B2323846
Date Received: 11-13-23
Date Analyzed: 11-14-23
Date Reported: 11-14-23

Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
006 B2323846.006	Sample Submitted for TEM Analysis						
007 B2323846.007	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	15% 5%	Perlite Paint	None Detected
008 B2323846.008	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	15% 5%	Perlite Paint	None Detected
009 B2323846.009	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	15% 5%	Perlite Paint	None Detected
010 B2323846.010	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	15% 5%	Perlite Paint	None Detected
011 B2323846.011	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	15% 5%	Perlite Paint	None Detected
012 B2323846.012	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	15% 5%	Perlite Paint	None Detected
013 B2323846.013 A	Floor Tile	Homogeneous Beige, Gray Non-fibrous Bound			97%	Vinyl	3% Chrysotile

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B2323846
Date Received: 11-13-23
Date Analyzed: 11-14-23
Date Reported: 11-14-23

Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
B2323846.013 B	Mastic	Homogeneous Black Non-fibrous Bound	95%	Mastic	5% Chrysotile
014 B2323846.014	Sample Not Analyzed per COC				
015 B2323846.015	Sample Not Analyzed per COC				
016 B2323846.016 A	Floor Tile	Homogeneous Gray Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.016 B	Mastic	Homogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected
017 B2323846.017 A	Floor Tile	Homogeneous Gray Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.017 B	Mastic	Homogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected
018 B2323846.018 A	Sample Submitted for TEM Analysis				
B2323846.018 B	Sample Submitted for TEM Analysis				

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B2323846
Date Received: 11-13-23
Date Analyzed: 11-14-23
Date Reported: 11-14-23

Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
019 B2323846.019 A	Covebase	Homogeneous Gray Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.019 B	Mastic	Homogeneous Clear, Yellow Non-fibrous Bound	100%	Mastic	None Detected
Unable to separate mastics.					
020 B2323846.020 A	Covebase	Homogeneous Gray Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.020 B	Mastic	Homogeneous Clear, Yellow Non-fibrous Bound	100%	Mastic	None Detected
Unable to separate mastics.					
021 B2323846.021 A	Sample Submitted for TEM Analysis				
B2323846.021 B	Sample Submitted for TEM Analysis				
025 B2323846.022 A	Covebase	Homogeneous Black Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.022 B	Mastic	Homogeneous Brown Non-fibrous Bound	100%	Mastic	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B2323846
Date Received: 11-13-23
Date Analyzed: 11-14-23
Date Reported: 11-14-23

Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
026 B2323846.023 A	Covebase	Homogeneous Black Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.023 B	Mastic	Homogeneous Brown Non-fibrous Bound	100%	Mastic	None Detected
027 B2323846.024 A	Sample Submitted for TEM Analysis				
B2323846.024 B	Sample Submitted for TEM Analysis				
028 B2323846.025 A	Floor Tile	Homogeneous Blue Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.025 B	Mastic	Homogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected
029 B2323846.026 A	Floor Tile	Homogeneous Blue Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.026 B	Mastic	Homogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected



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ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: B2323846
Date Received: 11-13-23
Date Analyzed: 11-14-23
Date Reported: 11-14-23

Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
030 B2323846.027 A	Sample Submitted for TEM Analysis				
B2323846.027 B	Sample Submitted for TEM Analysis				
031 B2323846.028 A	Floor Tile	Homogeneous Blue Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.028 B	Mastic	Homogeneous Yellow,Black Non-fibrous Bound	97%	Mastic	3% Chrysotile
	Unable to separate mastics.				
032 B2323846.029 A	Floor Tile	Homogeneous Blue Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.029 B	Sample Not Analyzed per COC				
033 B2323846.030 A	Sample Submitted for TEM Analysis				
B2323846.030 B	Sample Not Analyzed per COC				
034 B2323846.031 A	Floor Tile	Homogeneous Gray,Blue Non-fibrous Bound	100%	Vinyl	None Detected

ASBESTOS BULK ANALYSIS

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Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
B2323846.031 B	Mastic	Homogeneous Yellow,Black Non-fibrous Bound	97%	Mastic	3% Chrysotile
Unable to separate mastics.					
035 B2323846.032 A	Floor Tile	Homogeneous Gray,Blue Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.032 B	Sample Not Analyzed per COC				
036 B2323846.033 A	Sample Submitted for TEM Analysis				
B2323846.033 B	Sample Not Analyzed per COC				
037 B2323846.034 A	Floor Tile	Homogeneous Tan Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.034 B	Mastic	Homogeneous Black Non-fibrous Bound	98%	Mastic	2% Chrysotile
038 B2323846.035 A	Floor Tile	Homogeneous Tan Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.035 B	Sample Not Analyzed per COC				

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Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
039 B2323846.036 A	Sample Submitted for TEM Analysis				
B2323846.036 B	Sample Not Analyzed per COC				
040 B2323846.037	Carpet Glue	Homogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected
041 B2323846.038	Carpet Glue	Homogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected
042 B2323846.039	Sample Submitted for TEM Analysis				
043 Layer 1 B2323846.040	Joint Compound	Heterogeneous White Non-fibrous Bound	65% 30% 5%	Binder Calc Carb Paint	None Detected
Layer 2 B2323846.040	Drywall	Heterogeneous White, Tan Fibrous Bound	20%	Cellulose 80% Gypsum	None Detected
044 Layer 1 B2323846.041	Joint Compound	Heterogeneous White Non-fibrous Bound	65% 30% 5%	Binder Calc Carb Paint	None Detected



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Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
Layer 2 B2323846.041	Drywall	Heterogeneous White, Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
045 Layer 1 B2323846.042	Joint Compound	Heterogeneous White Non-fibrous Bound			65%	Binder	None Detected
			30%		30%	Calc Carb	
			5%		5%	Paint	
Layer 2 B2323846.042	Drywall	Heterogeneous White, Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
046 Layer 1 B2323846.043	Joint Compound	Heterogeneous White Non-fibrous Bound			65%	Binder	None Detected
			30%		30%	Calc Carb	
			5%		5%	Paint	
Layer 2 B2323846.043	Drywall	Heterogeneous White, Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
047 Layer 1 B2323846.044	Joint Compound	Heterogeneous White Non-fibrous Bound			65%	Binder	None Detected
			30%		30%	Calc Carb	
			5%		5%	Paint	
Layer 2 B2323846.044	Drywall	Heterogeneous White, Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected

ASBESTOS BULK ANALYSIS

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Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous		Non-Fibrous		
048 Layer 1 B2323846.045	Joint Compound	Heterogeneous	65%	Binder	None Detected		
		White	30%	Calc Carb			
		Non-fibrous	5%	Paint			
		Bound					
Layer 2 B2323846.045	Drywall	Heterogeneous	20%	Cellulose	80%	Gypsum	None Detected
		White, Tan					
		Fibrous					
		Bound					
049 Layer 1 B2323846.046	Joint Compound	Heterogeneous	65%	Binder	None Detected		
		White	30%	Calc Carb			
		Non-fibrous	5%	Paint			
		Bound					
Layer 2 B2323846.046	Drywall	Heterogeneous	20%	Cellulose	80%	Gypsum	None Detected
		White, Tan					
		Fibrous					
		Bound					
050 B2323846.047 A	Covebase	Homogeneous	100%	Vinyl	None Detected		
		Gray					
		Non-fibrous					
		Bound					
B2323846.047 B	Mastic	Homogeneous	100%	Mastic	None Detected		
		Beige					
		Non-fibrous					
		Bound					
051 B2323846.048 A	Covebase	Homogeneous	100%	Vinyl	None Detected		
		Gray					
		Non-fibrous					
		Bound					

ASBESTOS BULK ANALYSIS

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
B2323846.048 B	Mastic	Homogeneous Beige Non-fibrous Bound	100%	Mastic		None Detected	
052 B2323846.049 A	Sample Submitted for TEM Analysis						
B2323846.049 B	Sample Submitted for TEM Analysis						
053 B2323846.050	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	15% 5%	Perlite Paint	None Detected
054 B2323846.051	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	15% 5%	Perlite Paint	None Detected
055 B2323846.052	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	15% 5%	Perlite Paint	None Detected
056 B2323846.053	Duct Mastic	Homogeneous Gray Fibrous Bound	10%	Synthetic Fiber	90%	Mastic	None Detected
057 B2323846.054	Duct Mastic	Homogeneous Gray Fibrous Bound	10%	Synthetic Fiber	90%	Mastic	None Detected

ASBESTOS BULK ANALYSIS

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
058 B2323846.055	Sample Submitted for TEM Analysis				
059 B2323846.056	Carpet Glue	Homogeneous Yellow,Black Non-fibrous Bound	100%	Mastic	None Detected
	Unable to separate mastics.				
060 B2323846.057	Carpet Glue	Homogeneous Yellow,Black Non-fibrous Bound	100%	Mastic	None Detected
	Unable to separate mastics.				
061 B2323846.058	Sample Submitted for TEM Analysis				
061 Layer 1 B2323846.059 A	Mastic	Homogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected
Layer 2 B2323846.059 A	Floor Tile	Homogeneous Tan,White Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.059 B	Mastic	Homogeneous Yellow,Black Non-fibrous Bound	100%	Mastic	None Detected
	Unable to separate mastics.				
062 Layer 1 B2323846.060 A	Mastic	Homogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected

ASBESTOS BULK ANALYSIS

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Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
Layer 2 B2323846.060 A	Floor Tile	Homogeneous Tan,White Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.060 B	Mastic	Homogeneous Yellow,Black Non-fibrous Bound	100%	Mastic	None Detected
Unable to separate mastics.					
063 Layer 1 B2323846.061 A	Sample Submitted for TEM Analysis				
Layer 2 B2323846.061 A	Sample Submitted for TEM Analysis				
B2323846.061 B	Sample Submitted for TEM Analysis				
065 B2323846.062 A	Covebase	Homogeneous Dark Blue Non-fibrous Bound	100%	Vinyl	None Detected
Samples B2323846.062-.128 analyzed by M. Schmidt.					
B2323846.062 B	Mastic	Heterogeneous Yellow,Black /Brown Non-fibrous Bound	100%	Mastic	None Detected

Unable to separate for individual analysis.

ASBESTOS BULK ANALYSIS

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Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
066 B2323846.063 A	Covebase	Homogeneous Dark Blue Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.063 B	Mastic	Heterogeneous Yellow,Brown Non-fibrous Bound	100%	Mastic	None Detected
Unable to separate for individual analysis.					
067 B2323846.064 A	Sample Submitted for TEM Analysis				
B2323846.064 B	Sample Submitted for TEM Analysis				
068 B2323846.065	Plaster	Heterogeneous Off-white Non-fibrous Bound	<1%	Cellulose 30% 5%	Silicates Binder Paint None Detected
No texture present.					
069 B2323846.066	Plaster	Heterogeneous Off-white Non-fibrous Bound	<1%	Cellulose 30% 5%	Silicates Binder Paint None Detected
No texture present.					
070 B2323846.067	Plaster	Heterogeneous Off-white Non-fibrous Bound	<1%	Cellulose 30% 5%	Silicates Binder Paint None Detected
No texture present.					

ASBESTOS BULK ANALYSIS

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 1258 Boiling Springs Road
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Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
071 B2323846.068	Plaster	Heterogeneous Off-white Non-fibrous Bound	<1%	Cellulose	65%	Silicates 30% Binder 5% Paint	None Detected
No texture present.							
072 B2323846.069	Plaster	Heterogeneous Off-white Non-fibrous Bound	<1%	Cellulose	65%	Silicates 30% Binder 5% Paint	None Detected
No texture present.							
073 B2323846.070	Interior Window Caulk	Homogeneous Gray Non-fibrous Bound			97%	Caulk	3% Chrysotile
074 B2323846.071	Sample Not Analyzed per COC						
075 B2323846.072	Sample Not Analyzed per COC						
076 B2323846.073 A	Covebase	Homogeneous Brown,Gray Non-fibrous Bound			100%	Vinyl	None Detected
B2323846.073 B	Mastic	Homogeneous Yellow Non-fibrous Bound	2%	Talc	98%	Mastic	None Detected
077 B2323846.074 A	Covebase	Homogeneous Brown,Gray Non-fibrous Bound			100%	Vinyl	None Detected

ASBESTOS BULK ANALYSIS

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Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
B2323846.074 B	Mastic	Homogeneous Yellow Non-fibrous Bound	2%	Talc	98%	Mastic	None Detected
078 Sample Submitted for TEM Analysis							
B2323846.075 A							
B2323846.075 B	Sample Submitted for TEM Analysis						
B2323846.076 A	Chalkboard Mastic	Homogeneous Black Non-fibrous Bound			95%	Tar	5% Chrysotile
B2323846.076 B	Plaster	Homogeneous Gray Non-fibrous Bound			65%	Binder	None Detected
					35%	Perlite	
080 Sample Not Analyzed per COC							
B2323846.077 A							
B2323846.077 B	Plaster	Homogeneous Gray Non-fibrous Bound			65%	Binder	None Detected
					35%	Perlite	
081 Sample Not Analyzed per COC							
B2323846.078 A							
B2323846.078 B	Plaster	Homogeneous Gray Non-fibrous Bound			65%	Binder	None Detected
					35%	Perlite	

ASBESTOS BULK ANALYSIS

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Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
082 Layer 1 B2323846.079 A	Chalkboard Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
Layer 2 B2323846.079 A	Backer	Heterogeneous Tan Fibrous Bound	15%	Cellulose	85%	Vinyl	None Detected
B2323846.079 B	Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
B2323846.079 C	Plaster	Homogeneous Gray Non-fibrous Bound	<1%	Cellulose	65%	Silicates 35% Binder	None Detected
083 Layer 1 B2323846.080 A	Chalkboard Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
Layer 2 B2323846.080 A	Backer	Heterogeneous Tan Fibrous Bound	15%	Cellulose	85%	Vinyl	None Detected
B2323846.080 B	Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected

ASBESTOS BULK ANALYSIS

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
B2323846.080 C	Plaster	Homogeneous Gray Non-fibrous Bound	<1%	Cellulose	65%	Silicates 35% Binder	None Detected
084 Layer 1 B2323846.081 A	Sample Submitted for TEM Analysis						
Layer 2 B2323846.081 A	Sample Submitted for TEM Analysis						
B2323846.081 B	Sample Submitted for TEM Analysis						
B2323846.081 C	Plaster	Homogeneous Gray Non-fibrous Bound	<1%	Cellulose	65%	Silicates 35% Binder	None Detected
085 B2323846.082 A	Vinyl Floor Tile	Homogeneous Gray,Off-white Non-fibrous Bound			100%	Vinyl	None Detected
B2323846.082 B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98%	Tar	None Detected
086 B2323846.083 A	Vinyl Floor Tile	Homogeneous Gray,Off-white Non-fibrous Bound			100%	Vinyl	None Detected

ASBESTOS BULK ANALYSIS

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
B2323846.083 B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98% Tar	None Detected
087 Sample Submitted for B2323846.084 TEM Analysis A						
B2323846.084 Sample Submitted for B TEM Analysis						
B2323846.085 A	Vinyl Floor Tile	Homogeneous Green Non-fibrous Bound			100% Vinyl	None Detected
B2323846.085 B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98% Tar	None Detected
089 Vinyl Floor Tile B2323846.086 A						
B2323846.086 Mastic B						
B2323846.086 B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	98% Tar	None Detected
090 Sample Submitted for B2323846.087 TEM Analysis A						
B2323846.087 Sample Submitted for B TEM Analysis						

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
090 B2323846.088	Duct Mastic	Homogeneous White Non-fibrous Bound	3%	Talc	97%	Mastic	None Detected
091 B2323846.089	Duct Mastic	Homogeneous White Non-fibrous Bound	3%	Talc	97%	Mastic	None Detected
092 B2323846.090	Sample Submitted for TEM Analysis						
094 B2323846.091 A	Covebase	Homogeneous Black Non-fibrous Bound			100%	Vinyl	None Detected
B2323846.091 B	Mastic	Heterogeneous Yellow,Brown Non-fibrous Bound			100%	Mastic	None Detected
Unable to separate for individual analysis.							
095 B2323846.092 A	Covebase	Homogeneous Black Non-fibrous Bound			100%	Vinyl	None Detected
B2323846.092 B	Mastic	Heterogeneous Yellow,Brown Non-fibrous Bound			100%	Mastic	None Detected
Unable to separate for individual analysis.							
096 B2323846.093 A	Sample Submitted for TEM Analysis						

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
B2323846.093 B	Sample Submitted for TEM Analysis				
097 B2323846.094 A	Covebase	Homogeneous Brown Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.094 B	Mastic	Heterogeneous Yellow,Brown Non-fibrous Bound	100%	Mastic	None Detected
Unable to separate for individual analysis.					
098 B2323846.095 A	Covebase	Homogeneous Brown Non-fibrous Bound	100%	Vinyl	None Detected
B2323846.095 B	Mastic	Heterogeneous Yellow,Brown Non-fibrous Bound	100%	Mastic	None Detected
Unable to separate for individual analysis.					
099 B2323846.096 A	Sample Submitted for TEM Analysis				
B2323846.096 B	Sample Submitted for TEM Analysis				
100 B2323846.097	Mastic	Homogeneous Black Non-fibrous Bound	90%	Tar	10% Chrysotile



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ASBESTOS BULK ANALYSIS

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Non-Fibrous			
101 B2323846.098	Sample Not Analyzed per COC						
102 B2323846.099	Sample Not Analyzed per COC						
103 B2323846.100	Gypsum Ceiling Tile	Heterogeneous White, Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
104 B2323846.101	Gypsum Ceiling Tile	Heterogeneous White, Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
105 B2323846.102	Gypsum Ceiling Tile	Heterogeneous White, Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
106 B2323846.103	Block Filler	Heterogeneous White, Gray Non-fibrous Bound	<1%	Cellulose	85% 10% 5%	Binder Silicates Paint	None Detected
107 B2323846.104	Block Filler	Heterogeneous White Non-fibrous Bound	<1%	Cellulose	85% 10% 5%	Binder Silicates Paint	None Detected
108 B2323846.105	Block Filler	Heterogeneous Red, Off-white Non-fibrous Bound	<1%	Cellulose	85% 10% 5%	Binder Silicates Paint	<1% Chrysotile

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Date Analyzed: 11-14-23
Date Reported: 11-14-23

Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Non-Fibrous			
109 B2323846.106	Block Filler	Heterogeneous White, Gray Non-fibrous Bound	<1%	Cellulose	85%	Binder 10% Silicates 5% Paint	None Detected
110 B2323846.107	Block Filler	Heterogeneous White, Light Blue Non-fibrous Bound	<1%	Cellulose	85%	Binder 10% Silicates 5% Paint	None Detected
111 B2323846.108	Block Filler	Heterogeneous White, Blue Non-fibrous Bound	<1%	Cellulose	85%	Binder 10% Silicates 5% Paint	None Detected
112 B2323846.109	Block Filler	Heterogeneous White Non-fibrous Bound	<1%	Cellulose	85%	Binder 10% Silicates 5% Paint	None Detected
113 B2323846.110	Carpet Glue	Homogeneous Yellow Non-fibrous Bound	<1%	Synthetic Fiber	100%	Mastic	None Detected
114 B2323846.111	Carpet Glue	Homogeneous Yellow Non-fibrous Bound	<1%	Synthetic Fiber	100%	Mastic	None Detected
115 B2323846.112	Sample Submitted for TEM Analysis						
116 B2323846.113	Duct Mastic	Homogeneous Brown Non-fibrous Bound	3%	Talc	97%	Mastic	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B2323846
Date Received: 11-13-23
Date Analyzed: 11-14-23
Date Reported: 11-14-23

Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
117 B2323846.114	Duct Mastic	Homogeneous Brown Non-fibrous Bound	3%	Talc	97%	Mastic	None Detected
118 B2323846.115	Sample Submitted for TEM Analysis						
119 B2323846.116	Duct Mastic	Homogeneous Red Non-fibrous Bound	<1%	Talc	100%	Mastic	None Detected
120 B2323846.117	Duct Mastic	Homogeneous Red Non-fibrous Bound	<1%	Talc	100%	Mastic	None Detected
121 B2323846.118	Sample Submitted for TEM Analysis						
122 B2323846.119	Fireproofing	Homogeneous Gray Fibrous Loosely Bound	55% 30%	Fiberglass Mineral Wool	15%	Binder	None Detected
123 B2323846.120	Fireproofing	Homogeneous Gray Fibrous Loosely Bound	55% 30%	Fiberglass Mineral Wool	15%	Binder	None Detected
124 B2323846.121	Fireproofing	Homogeneous Gray Fibrous Loosely Bound	55% 30%	Fiberglass Mineral Wool	15%	Binder	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: B2323846
Date Received: 11-13-23
Date Analyzed: 11-14-23
Date Reported: 11-14-23

Project: Byrnes HS - Phase III Demo, 23167-IN

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
125 B2323846.122	Fireproofing	Homogeneous Gray Fibrous Loosely Bound	55%	Fiberglass	15%	Binder	None Detected
			30%	Mineral Wool			
126 B2323846.123	Fireproofing	Homogeneous Gray Fibrous Loosely Bound	55%	Fiberglass	15%	Binder	None Detected
			30%	Mineral Wool			
127 B2323846.124	Fireproofing	Homogeneous Gray Fibrous Loosely Bound	55%	Fiberglass	15%	Binder	None Detected
			30%	Mineral Wool			
128 B2323846.125	Fireproofing	Homogeneous Gray Fibrous Loosely Bound	55%	Fiberglass	15%	Binder	None Detected
			30%	Mineral Wool			
129 B2323846.126	Expansion Caulk	Homogeneous Gray Fibrous Loosely Bound			100%	Caulk	None Detected
130 B2323846.127	Expansion Caulk	Homogeneous Gray Fibrous Loosely Bound			100%	Caulk	None Detected
131 B2323846.128	Sample Submitted for TEM Analysis						

LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*


This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST:


Zane Heinz

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director



Madelyn Schmidt



730 S.E. Maynard Rd., Cary, NC 27511
 Tel: 919-481-1413; Fax: 919-481-1442

CHAIN OF CUSTODY

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LAB USE ONLY:
CEI Lab Code: <u>P2323846</u>
CEI Lab I.D. Range:

COMPANY CONTACT INFORMATION	
Company: CROSSROADS ENVIRONMENTAL, LLC	Client #:
Address: 1258 BOILING SPRINGS RD. SPARTANBURG, SC 29303	Job Contact: Kay H. Horton
	Email: RESULTS@CROSSROADSENV.NET
	Tel: 864-541-8736
Project Name: Byrnes HS- Phase III Demo	Fax: 864-541-8776
Project ID #: 23167-IN	P.O. #:

ASBESTOS	METHOD	4 HR*	8 HR*	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600			X			
TEM BULK	CHATFIELD			X			
PLM POINT COUNT (400)	EPA 600						
PLM POINT COUNT (1000)	EPA 600						
PLM GRAVIMETRIC	EPA 600						
PLM GRAV w POINT COUNT	EPA 600						
OTHER:							

POSITIVE STOP ANALYSIS	X
SOUTH CAROLINA SAMPLES	X
NORTH CAROLINA SAMPLES	

TEM INSTRUCTIONS	
BEGIN TEM ANALYSIS AFTER NEGATIVE PLM	X
ANALYZE TEM SAMPLES SIMULTANEOUSLY WITH PLM	

DO NOT STOP POSITIVE SURFACING MATERIAL		<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples	
Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	11/8/2023 0:00	<i>[Signature]</i>	11-13-23 10:00

*Call to confirm RUSH analysis.

Samples will be disposed of 30 days after analysis

12 96E 07X 01 9692 5229



SAMPLING FORM

COMPANY CONTACT INFORMATION	
Crossroads Environmental, LLC	Job Contact: Kay H. Horton
Project Name: Byrnes HS- Phase III Demo	
Project ID #: 23167-IN	Tel: 864-541-8736

SAMPLE ID#	HA	DESCRIPTION / LOCATION	TEST			
			PLM	X	TEM	
001	01	12"x12" Off-White Vinyl Floor Tile w/ Gray Streaks	PLM	X	TEM	
002	01	12"x12" Off-White Vinyl Floor Tile w/ Gray Streaks	PLM	X	TEM	
003	01	12"x12" Off-White Vinyl Floor Tile w/ Gray Streaks	PLM		TEM	X
004	02	Carpet Square Glue	PLM	X	TEM	
005	02	Carpet Square Glue	PLM	X	TEM	
006	02	Carpet Square Glue	PLM		TEM	X
007	03	2'x2' Ceiling Tile w/ Pinholes & Gashes	PLM	X	TEM	
008	03	2'x2' Ceiling Tile w/ Pinholes & Gashes	PLM	X	TEM	
009	03	2'x2' Ceiling Tile w/ Pinholes & Gashes	PLM	X	TEM	
010	04	2'x2' Ceiling Tile w/ Pinholes & Squiggles	PLM	X	TEM	
011	04	2'x2' Ceiling Tile w/ Pinholes & Squiggles	PLM	X	TEM	
012	04	2'x2' Ceiling Tile w/ Pinholes & Squiggles	PLM	X	TEM	
013	05	9"x9" Beige Vinyl Floor Tile w/ Gray Streaks	PLM	X	TEM	
014	05	9"x9" Beige Vinyl Floor Tile w/ Gray Streaks	PLM	X	TEM	
015	05	9"x9" Beige Vinyl Floor Tile w/ Gray Streaks	PLM		TEM	X
016	06	12"x12" Gray Vinyl Floor Tile w/ Gray Streaks	PLM	X	TEM	
017	06	12"x12" Gray Vinyl Floor Tile w/ Gray Streaks	PLM	X	TEM	
018	06	12"x12" Gray Vinyl Floor Tile w/ Gray Streaks	PLM		TEM	X
019	07	Light Gray Cove Base	PLM	X	TEM	
020	07	Light Gray Cove Base	PLM	X	TEM	
021	07	Light Gray Cove Base	PLM		TEM	X
025	09	Black Cove Base w/ Brown Mastic	PLM	X	TEM	
026	09	Black Cove Base w/ Brown Mastic	PLM	X	TEM	
027	09	Black Cove Base w/ Brown Mastic	PLM		TEM	X
028	10	12"x12" Robin Egg Blue Vinyl Floor Tile	PLM	X	TEM	
029	10	12"x12" Robin Egg Blue Vinyl Floor Tile	PLM	X	TEM	
030	10	12"x12" Robin Egg Blue Vinyl Floor Tile	PLM		TEM	X
031	11	12"x12" Royal Blue Vinyl Floor Tile	PLM	X	TEM	
032	11	12"x12" Royal Blue Vinyl Floor Tile	PLM	X	TEM	
033	11	12"x12" Royal Blue Vinyl Floor Tile	PLM		TEM	X
034	12	12"x12" Dark Gray Vinyl Floor Tile w/ Blue Streaks	PLM	X	TEM	
035	12	12"x12" Dark Gray Vinyl Floor Tile w/ Blue Streaks	PLM	X	TEM	
036	12	12"x12" Dark Gray Vinyl Floor Tile w/ Blue Streaks	PLM		TEM	X



SAMPLING FORM

COMPANY CONTACT INFORMATION	
Crossroads Environmental, LLC	Job Contact: Kay H. Horton
Project Name: Byrnes HS- Phase III Demo	
Project ID #: 23167-IN	Tel: 864-541-8736

SAMPLE ID#	HA	DESCRIPTION / LOCATION	TEST			
			PLM	X	TEM	
037	13	12"x12" Tan Vinyl Floor Tile w/ Tan Streaks	PLM	X	TEM	
038	13	12"x12" Tan Vinyl Floor Tile w/ Tan Streaks	PLM	X	TEM	
039	13	12"x12" Tan Vinyl Floor Tile w/ Tan Streaks	PLM		TEM	X
040	14	Carpet Glue	PLM	X	TEM	
041	14	Carpet Glue	PLM	X	TEM	
042	14	Carpet Glue	PLM		TEM	X
043	15	Drywall/Joint Compound	PLM	X	TEM	
044	15	Drywall/Joint Compound	PLM	X	TEM	
045	15	Drywall/Joint Compound	PLM	X	TEM	
046	15	Drywall/Joint Compound	PLM	X	TEM	
047	15	Drywall/Joint Compound	PLM	X	TEM	
048	15	Drywall/Joint Compound	PLM	X	TEM	
049	15	Drywall/Joint Compound	PLM	X	TEM	
050	16	Dark Gray Cove Base	PLM	X	TEM	
051	16	Dark Gray Cove Base	PLM	X	TEM	
052	16	Dark Gray Cove Base	PLM		TEM	X
053	17	2'x2' Ceiling Tile w/ Pinholes & Large Holes	PLM	X	TEM	
054	17	2'x2' Ceiling Tile w/ Pinholes & Large Holes	PLM	X	TEM	
055	17	2'x2' Ceiling Tile w/ Pinholes & Large Holes	PLM	X	TEM	
056	18	Gray Duct Mastic	PLM	X	TEM	
057	18	Gray Duct Mastic	PLM	X	TEM	
058	18	Gray Duct Mastic	PLM	-	TEM	X
059	19	Carpet Square Glue	PLM	X	TEM	
060	19	Carpet Square Glue	PLM	X	TEM	
061	19	Carpet Square Glue	PLM		TEM	X
062	20	Vinyl Floor Tile	PLM	X	TEM	
063	20	Vinyl Floor Tile	PLM	X	TEM	
064	20	Vinyl Floor Tile	PLM		TEM	X
065	21	Dark Blue Cove Base	PLM	X	TEM	
066	21	Dark Blue Cove Base	PLM	X	TEM	
067	21	Dark Blue Cove Base	PLM		TEM	X
068	22	Plaster w/ Texture	PLM	X	TEM	
069	22	Plaster w/ Texture	PLM	X	TEM	
070	22	Plaster w/ Texture	PLM	X	TEM	



SAMPLING FORM

COMPANY CONTACT INFORMATION	
Crossroads Environmental, LLC	Job Contact: Kay H. Horton
Project Name: Byrnes HS- Phase III Demo	
Project ID #: 23167-IN	Tel: 864-541-8736

SAMPLE ID#	HA	DESCRIPTION / LOCATION	TEST			
			PLM	X	TEM	
071	22	Plaster w/ Texture	PLM	X	TEM	
072	22	Plaster w/ Texture	PLM	X	TEM	
073	23	Interior Window Caulk	PLM	X	TEM	
074	23	Interior Window Caulk	PLM	X	TEM	
075	23	Interior Window Caulk	PLM		TEM	X
076	24	Brown-ish Gray Cove Base	PLM	X	TEM	
077	24	Brown-ish Gray Cove Base	PLM	X	TEM	
078	24	Brown-ish Gray Cove Base	PLM		TEM	X
079	25	Black Chalkboard Mastic w/ Plaster	PLM	X	TEM	
080	25	Black Chalkboard Mastic w/ Plaster	PLM	X	TEM	
081	25	Black Chalkboard Mastic w/ Plaster	PLM		TEM	X
082	26	Yellow Chalkboard Mastic w/ Backer & Plaster	PLM	X	TEM	
083	26	Yellow Chalkboard Mastic w/ Backer & Plaster	PLM	X	TEM	
084	26	Yellow Chalkboard Mastic w/ Backer & Plaster	PLM		TEM	X
085	27	12"x12" Gray Vinyl Floor Tile w/ Off-White Streaks	PLM	X	TEM	
086	27	12"x12" Gray Vinyl Floor Tile w/ Off-White Streaks	PLM	X	TEM	
087	27	12"x12" Gray Vinyl Floor Tile w/ Off-White Streaks	PLM		TEM	X
088	28	12"x12" Green Vinyl Floor Tile	PLM	X	TEM	
089	28	12"x12" Green Vinyl Floor Tile	PLM	X	TEM	
090	28	12"x12" Green Vinyl Floor Tile	PLM		TEM	X
091	29	White Duct Mastic	PLM	X	TEM	
092	29	White Duct Mastic	PLM	X	TEM	
093	29	White Duct Mastic	PLM		TEM	X
094	30	Black Cove Base w/ Tan Mastic	PLM	X	TEM	
095	30	Black Cove Base w/ Tan Mastic	PLM	X	TEM	
096	30	Black Cove Base w/ Tan Mastic	PLM		TEM	X
097	31	Brown Cove Base	PLM	X	TEM	
098	31	Brown Cove Base	PLM	X	TEM	
099	31	Brown Cove Base	PLM		TEM	X
100	32	Black Mastic	PLM	X	TEM	
101	32	Black Mastic	PLM	X	TEM	
102	32	Black Mastic	PLM		TEM	X
103	33	2'x2' Gypsum Ceiling Tile	PLM	X	TEM	
104	33	2'x2' Gypsum Ceiling Tile	PLM	X	TEM	



SAMPLING FORM

COMPANY CONTACT INFORMATION	
Crossroads Environmental, LLC	Job Contact: Kay H. Horton
Project Name: Byrnes HS- Phase III Demo	
Project ID #: 23167-IN	Tel: 864-541-8736

SAMPLE ID#	HA	DESCRIPTION / LOCATION	TEST			
			PLM	X	TEM	
105	33	2'x2' Gypsum Ceiling Tile	PLM	X	TEM	
106	34	Block Filler	PLM	X	TEM	
107	34	Block Filler	PLM	X	TEM	
108	34	Block Filler	PLM	X	TEM	
109	34	Block Filler	PLM	X	TEM	
110	34	Block Filler	PLM	X	TEM	
111	34	Block Filler	PLM	X	TEM	
112	34	Block Filler	PLM	X	TEM	
113	35	Carpet Glue	PLM	X	TEM	
114	35	Carpet Glue	PLM	X	TEM	
115	35	Carpet Glue	PLM		TEM	X
116	36	Brown Duct Mastic	PLM	X	TEM	
117	36	Brown Duct Mastic	PLM	X	TEM	
118	36	Brown Duct Mastic	PLM		TEM	X
119	37	Red Duct Mastic	PLM	X	TEM	
120	37	Red Duct Mastic	PLM	X	TEM	
121	37	Red Duct Mastic	PLM		TEM	X
122	38	Blown Fireproofing	PLM	X	TEM	
123	38	Blown Fireproofing	PLM	X	TEM	
124	38	Blown Fireproofing	PLM	X	TEM	
125	38	Blown Fireproofing	PLM	X	TEM	
126	38	Blown Fireproofing	PLM	X	TEM	
127	38	Blown Fireproofing	PLM	X	TEM	
128	38	Blown Fireproofing	PLM	X	TEM	
129	39	Expansion Caulk	PLM	X	TEM	
130	39	Expansion Caulk	PLM	X	TEM	
131	39	Expansion Caulk	PLM		TEM	X

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November 15, 2023

Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

CLIENT PROJECT: Byrnes HS - Phase III Demo, 23167-IN
LAB CODE: T232359

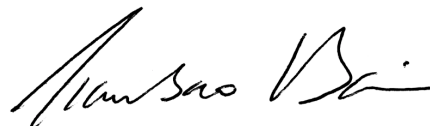
Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on November 14, 2023. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Crossroads Environmental

CLIENT PROJECT: Byrnes HS - Phase III Demo, 23167-IN

LAB CODE: T232359

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116 Sec. 2.5.5.1

REPORT DATE: 11/15/23



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ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: T232359
Date Received: 11-14-23
Date Analyzed: 11-15-23
Date Reported: 11-15-23

Project: Byrnes HS - Phase III Demo, 23167-IN

TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
003 T67389	Off- White, Gray Floor Tile	0.351	14.5	84.9	.6	None Detected
003 T67390	Black Mastic	0.18	85	11.7	3.3	None Detected
006 T67391	Beige Carpet Glue	0.309	95.8	3.2	1	None Detected
018 T67392	Gray Floor Tile	0.264	22.7	54.9	22.4	None Detected
018 T67393	Yellow Mastic	0.114	26.3	63.2	10.5	None Detected
021 T67394	Gray Covebase	0.513	38.6	40.2	21.2	None Detected
021 T67395	Clear, Yellow Mastic	0.27	56.7	7.4	35.9	None Detected
027 T67396	Black Covebase	0.346	33.2	65.6	1.2	None Detected
027 T67397	Brown Mastic	0.316	53.2	4.4	42.4	None Detected
030 T67398	Blue Floor Tile	0.4	16	82.5	1.5	None Detected
030 T67399	Yellow Mastic	0.2	63.5	14	22.5	None Detected
033 T67400	Blue Floor Tile	0.432	15.3	81	3.7	None Detected

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: T232359
Date Received: 11-14-23
Date Analyzed: 11-15-23
Date Reported: 11-15-23

Project: Byrnes HS - Phase III Demo, 23167-IN

TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
036 T67401	Gray, Blue Floor Tile	0.385	13.2	84.7	2.1	None Detected
039 T67402	Tan Floor Tile	0.301	16.3	81.7	2	<1% Chrysotile
042 T67403	Yellow Carpet Glue	0.302	74.5	3.6	21.9	None Detected
052 T67404	Gray Covebase	0.491	34.2	2.9	62.9	None Detected
052 T67405	Beige Mastic	0.598	37	62.5	.5	None Detected
058 T67406	Gray Duct Mastic	0.717	72.2	15.6	12.2	None Detected
061 T67407	Yellow, Black Carpet Glue	0.224	59.8	36.2	4	None Detected
064 T67408	Yellow Mastic	0.318	58.8	7.9	33.3	None Detected
064 T67409	Tan, White Floor Tile	0.417	24	68.8	7.2	None Detected
064 T67410	Yellow, Black Mastic	0.133	57.1	37.6	5.3	None Detected
067 T67411	Dark Blue Covebase	0.374	77	20.9	2.1	None Detected
067 T67412	Yellow, Black / Brown Mastic	0.363	49.6	13.8	36.6	None Detected



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ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: T232359
Date Received: 11-14-23
Date Analyzed: 11-15-23
Date Reported: 11-15-23

Project: Byrnes HS - Phase III Demo, 23167-IN

TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
078 T67413	Brown, Gray Covebase	0.482	42.5	2.3	55.2	None Detected
078 T67414	Yellow Mastic	0.575	25	38.4	36.6	None Detected
084 T67415	Yellow Chalkboard Mastic	0.101	80.2	18.8	1	None Detected
084 T67416	Tan Backer	0.26	86.5	11.5	2	None Detected
084 T67417	Yellow Mastic	0.361	11.4	32.1	56.5	None Detected
087 T67418	Gray, Off-White Vinyl Floor Tile	0.486	17.7	81.5	.8	None Detected
087 T67419	Black Mastic	0.127	53.5	42.5	4	None Detected
090 T67420	Green Vinyl Floor Tile	0.528	16.1	82.2	1.7	None Detected
090 T67421	Black Mastic	0.118	55.9	41.5	2.6	None Detected
092 T67422	White Duct Mastic	0.133	47.4	10.5	42.1	None Detected
096 T67423	Black Covebase	0.505	63	29.9	7.1	None Detected
096 T67424	Yellow, Brown Mastic	0.268	37.3	62.3	.4	None Detected



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ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: T232359
Date Received: 11-14-23
Date Analyzed: 11-15-23
Date Reported: 11-15-23

Project: Byrnes HS - Phase III Demo, 23167-IN

TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
099 T67425	Brown Covebase	0.266	45.1	7.9	47	None Detected
099 T67426	Yellow, Brown Mastic	0.313	50.8	1.9	47.3	None Detected
115 T67427	Yellow Carpet Glue	0.32	53.8	6.9	39.3	None Detected
118 T67428	Brown Duct Mastic	0.265	63	27.9	9.1	None Detected
121 T67429	Red Duct Mastic	0.124	58.9	21	20.1	None Detected
131 T67430	Gray Expansion Caulk	0.358	31.8	67.3	.9	None Detected

LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116 Sec. 2.5.5.1

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

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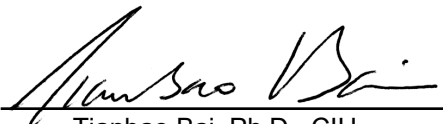
Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ECEI recommends between 0.20 and 0.50 grams of sample material for TEM bulk analysis.

Any weight below 0.10 grams is considered below protocol guidelines.

***Indicates sample weight below 0.05 grams and is considered insufficient for quantitative analysis.*

ANALYST: 
Samantha Card

APPROVED BY: 
Tianbao Bai, Ph.D., CIH
Laboratory Director

January 9, 2024

Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

CLIENT PROJECT: Byrnes HS- Phase III Demo (Roofing), 23167-IN
LAB CODE: T240018

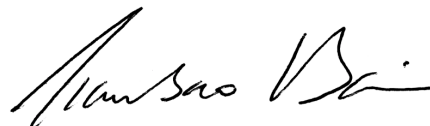
Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on January 8, 2024. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Crossroads Environmental

CLIENT PROJECT: Byrnes HS- Phase III Demo (Roofing), 23167-IN

LAB CODE: T240018

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116 Sec. 2.5.5.1

REPORT DATE: 01/09/24



CEI

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: T240018
Date Received: 01-08-24
Date Analyzed: 01-09-24
Date Reported: 01-09-24

Project: Byrnes HS- Phase III Demo (Roofing), 23167-IN

TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
303 T68733	Black Bur (Felt Paper)	0.718	68.9	2.6	28.5	<1% Chrysotile
303 T68734	Black Bur (Tar Paper)	0.696	65.8	.9	33.3	<1% Chrysotile
306 T68735	Black Equipment Flashing	0.494	68.2	3.8	28	<1% Chrysotile
321 T68736	Black Perimeter Flashing	0.845	54	10.5	35.5	<1% Chrysotile

LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116 Sec. 2.5.5.1

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

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Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ECEI recommends between 0.20 and 0.50 grams of sample material for TEM bulk analysis.

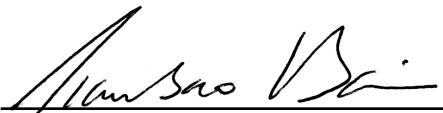
Any weight below 0.10 grams is considered below protocol guidelines.

***Indicates sample weight below 0.05 grams and is considered insufficient for quantitative analysis.*

ANALYST:


Partima Poudel Acharya

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director

January 9, 2024

Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

CLIENT PROJECT: Byrnes HS- Phase III (Part II), 23167-IN
LAB CODE: T240019

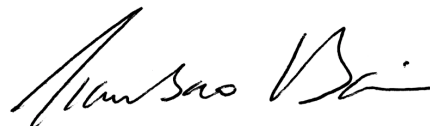
Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on January 8, 2024. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Crossroads Environmental

CLIENT PROJECT: Byrnes HS- Phase III (Part II), 23167-IN

LAB CODE: T240019

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116 Sec. 2.5.5.1

REPORT DATE: 01/09/24



CEI

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: T240019
Date Received: 01-08-24
Date Analyzed: 01-08-24
Date Reported: 01-09-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
134 T68741	Off-White Vinyl Floor Tile	0.49	12.9	85.5	1.6	None Detected
134 T68742	Black Mastic	0.144	84	13.9	2.1	None Detected
137 T68743	Brown, Gray Covebase	0.328	32.3	34.5	33.2	None Detected
137 T68744	Tan Mastic	0.429	29.1	35.2	35.7	None Detected
140 T68745	Blue Stair Tread	0.433	53.1	.2	46.7	None Detected
140 T68746	Clear Mastic	0.1	89	9	2	None Detected
146 T68747	Beige Vinyl Floor Tile	0.437	20.6	78.5	.9	<1% Chrysotile
149 T68748	Yellow Vinyl Floor Tile	0.486	18.3	81.1	.6	None Detected
155 T68749	Gray Covebase	0.45	26.7	35.1	38.2	None Detected
155 T68750	Cream Mastic	0.543	31.1	66.9	2	None Detected
158 T68751	Gray Vinyl Floor Tile	0.477	17.2	81.1	1.7	None Detected
158 T68752	Black Mastic	0.144	25.7	66.7	7.6	None Detected

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: T240019
Date Received: 01-08-24
Date Analyzed: 01-08-24
Date Reported: 01-09-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
161 T68753	Sky Blue Vinyl Floor Tile	0.443	16.9	77.7	5.4	None Detected
161 T68754	Black Mastic			Insufficient		
167 T68755	Aqua Blue Vinyl Floor Tile	0.526	16.7	74.9	8.4	None Detected
167 T68756	Tan Mastic	0.037	59.5	21.6	18.9	None Detected
170 T68757	Royal Blue Vinyl Floor Tile	0.629	16.9	80.3	2.8	None Detected
170 T68758	Black Mastic	0.119	35.3	64.7	0	None Detected
173 T68759	Red Vinyl Floor Tile	0.436	17.4	78.4	4.2	None Detected
173 T68760	Black Mastic	0.045	53.3	46.7	0	<1% Chrysotile
176 T68761	Black, Gray Vinyl Floor Tile	0.413	19.6	77.5	2.9	None Detected
176 T68762	Black Mastic	0.048	37.5	60.4	2.1	None Detected
179 T68763	Yellow Carpet Glue	0.14	37.9	28.6	33.5	None Detected
196 T68764	Dark Gray Vinyl Floor Tile	0.415	16.4	61.7	21.9	None Detected

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Crossroads Environmental
 1258 Boiling Springs Road
 Spartanburg, SC 29303

Lab Code: T240019
Date Received: 01-08-24
Date Analyzed: 01-08-24
Date Reported: 01-09-24

Project: Byrnes HS- Phase III (Part II), 23167-IN

TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
196 T68765	Yellow,Black Mastic	0.049	44.9	36.7	18.4	None Detected
199 T68766	Gray Sheet Flooring	0.352	48.9	49.7	1.4	None Detected
199 T68767	Beige Mastic	0.698	45	52.4	2.6	None Detected
207 T68768	Blue, Gray Vinyl Floor Tile	0.649	12.6	85.7	1.7	None Detected
210 T68769	Blue, Gray Covebase	0.306	53.3	43.8	2.9	None Detected
210 T68770	Beige Mastic	0.288	40.6	4.9	54.5	None Detected
213 T68771	Beige, Gray Carpet Glue/ Leveling Compound	0.343	37.9	17.2	44.9	None Detected
216 T68772	Gray Stair Tread	0.429	35.4	3.5	61.1	None Detected
216 T68773	Beige, Yellow Mastic	0.287	48.4	47.4	4.2	None Detected
219 T68774	Brown Mastic	0.466	50.6	6.7	42.7	None Detected
222 T68775	Tan Peanut Butter Mastic	0.396	59.6	3.5	36.9	None Detected
239 T68776	Gray Window Caulking	0.408	24.3	37.5	38.2	1.1% Chrysotile

LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116 Sec. 2.5.5.1

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

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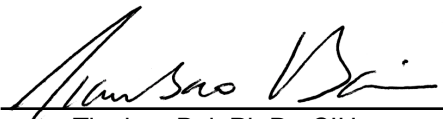
Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ECEI recommends between 0.20 and 0.50 grams of sample material for TEM bulk analysis.

Any weight below 0.10 grams is considered below protocol guidelines.

***Indicates sample weight below 0.05 grams and is considered insufficient for quantitative analysis.*

ANALYST: 
Brunilda Gjoka

APPROVED BY: 
Tianbao Bai, Ph.D., CIH
Laboratory Director

January 22, 2024

Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

CLIENT PROJECT: 23167-IN
LAB CODE: T240065

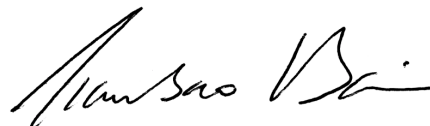
Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on January 19, 2024. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Crossroads Environmental

CLIENT PROJECT: 23167-IN

LAB CODE: T240065

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116 Sec. 2.5.5.1

REPORT DATE: 01/22/24



CEI

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: T240065
Date Received: 01-19-24
Date Analyzed: 01-22-24
Date Reported: 01-22-24

Project: 23167-IN

TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
330 T69160	Black Flat Roof Field (Layer 1)	0.6	85.5	1.8	12.7	<1% Chrysotile
330 T69161	Black Flat Roof Field (Layer 2)	0.452	87.6	.4	12	<1% Chrysotile

LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116 Sec. 2.5.5.1

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

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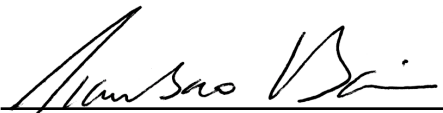
Any weight below 0.10 grams is considered below protocol guidelines.

***Indicates sample weight below 0.05 grams and is considered insufficient for quantitative analysis.*

ANALYST:


Partima Poudel Acharya

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director

January 24, 2024

Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

CLIENT PROJECT: Byrnes Phase III (Cont.), 23167-IN
LAB CODE: T240083

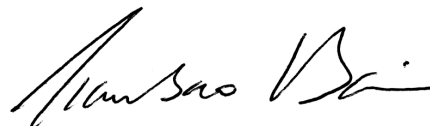
Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on January 23, 2024. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Crossroads Environmental

CLIENT PROJECT: Byrnes Phase III (Cont.), 23167-IN

LAB CODE: T240083

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116 Sec. 2.5.5.1

REPORT DATE: 01/24/24



CEI

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Crossroads Environmental
1258 Boiling Springs Road
Spartanburg, SC 29303

Lab Code: T240083
Date Received: 01-23-24
Date Analyzed: 01-24-24
Date Reported: 01-24-24

Project: Byrnes Phase III (Cont.), 23167-IN

TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
242 T69242	White, Gray Thin Interior Glaze	0.227	7.5	89.9	2.6	<1% Chrysotile
251 T69243	White Interior Door Caulk	0.338	29.9	62.1	8	None Detected
250 T69244	Gray Cementitious Material				Insufficient	
254 T69245	Gray Putty-like Window Caulk	0.226	68.1	24.3	7.6	None Detected

LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116 Sec. 2.5.5.1

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

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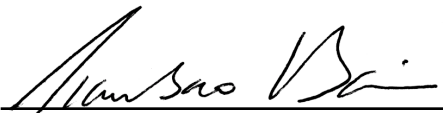
Any weight below 0.10 grams is considered below protocol guidelines.

***Indicates sample weight below 0.05 grams and is considered insufficient for quantitative analysis.*

ANALYST:


Partima Poudel Acharya

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director

ATTACHMENT III
SAMPLE LOCATION SKETCH AND/OR PHOTOS

NOT FOR CONSTRUCTION

DEMOLITION LEGEND

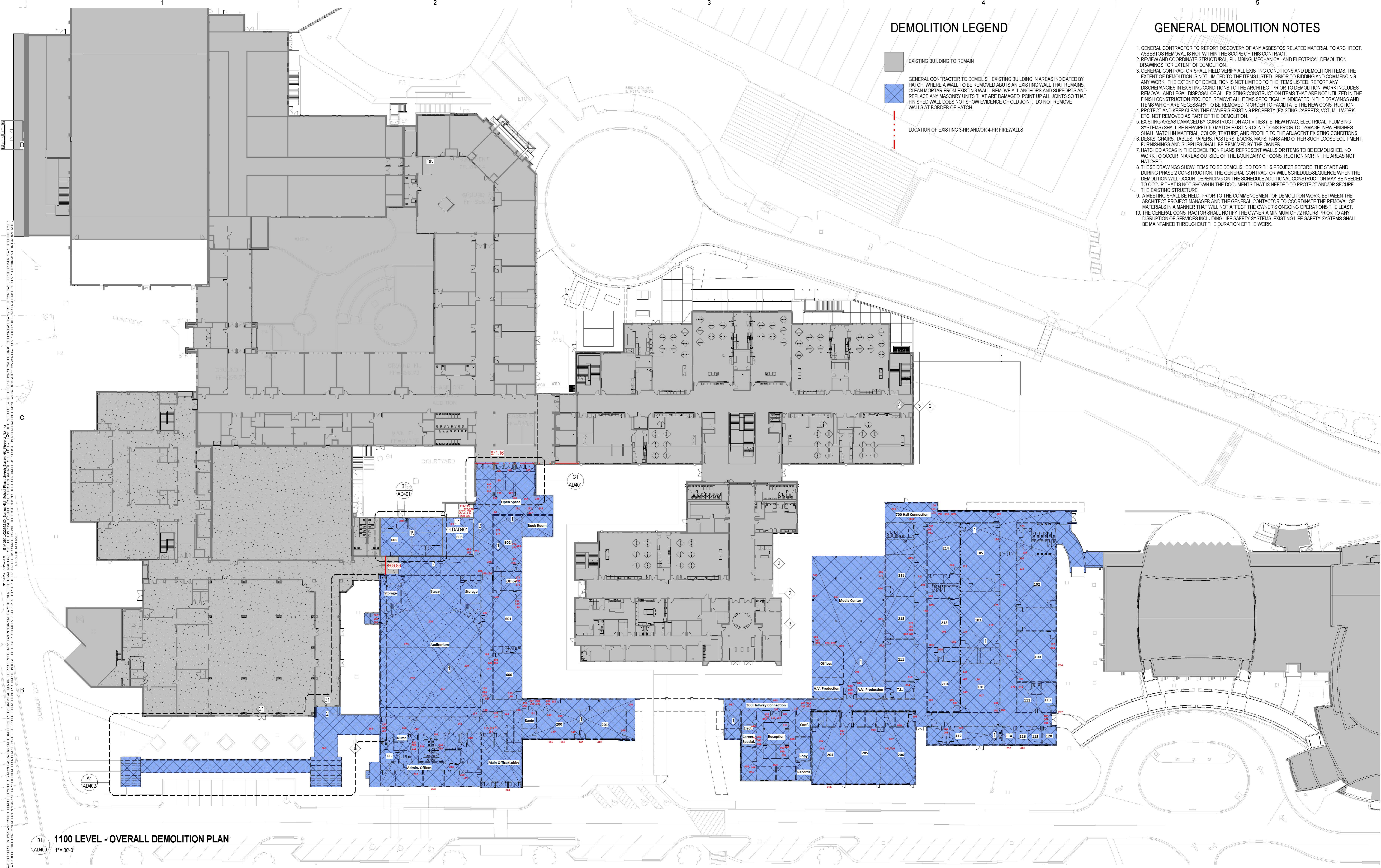
EXISTING BUILDING TO REMAIN

GENERAL CONTRACTOR TO DEMOLISH EXISTING BUILDING IN AREAS INDICATED BY HATCH WHERE A WALL TO BE REMOVED ABUTS AN EXISTING WALL THAT REMAINS. CLEAN MORTAR FROM EXISTING WALL. REMOVE ALL ANCHORS AND SUPPORTS AND REPLACE ANY MASONRY UNITS THAT ARE DAMAGED. POINT UP ALL JOINTS SO THAT FINISHED WALL DOES NOT SHOW EVIDENCE OF OLD JOINT. DO NOT REMOVE WALLS AT BORDER OF HATCH.

LOCATION OF EXISTING 3-HR AND/OR 4-HR FIREWALLS

GENERAL DEMOLITION NOTES

- GENERAL CONTRACTOR TO REPORT DISCOVERY OF ANY ASBESTOS RELATED MATERIAL TO ARCHITECT. ASBESTOS REMOVAL IS NOT WITHIN THE SCOPE OF THIS CONTRACT.
- REVIEW AND COORDINATE STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS FOR EXTENT OF DEMOLITION.
- GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DEMOLITION ITEMS. THE EXTENT OF DEMOLITION IS NOT LIMITED TO THE ITEMS LISTED. PRIOR TO BIDDING AND COMMENCING ANY WORK, THE EXTENT OF DEMOLITION IS NOT LIMITED TO THE ITEMS LISTED. REPORT ANY DISCREPANCIES IN EXISTING CONDITIONS TO THE ARCHITECT PRIOR TO DEMOLITION. WORK INCLUDES REMOVAL AND LEGAL DISPOSAL OF ALL EXISTING CONSTRUCTION ITEMS THAT ARE NOT UTILIZED IN THE FINISH CONSTRUCTION PROJECT. REMOVE ALL ITEMS SPECIFICALLY INDICATED IN THE DRAWINGS AND ITEMS WHICH ARE NECESSARY TO BE REMOVED IN ORDER TO FACILITATE THE NEW CONSTRUCTION.
- PROTECT AND KEEP CLEAN THE OWNER'S EXISTING PROPERTY (EXISTING CARPETS, VCT, MILLWORK, ETC.) NOT REMOVED AS PART OF THE DEMOLITION.
- EXISTING AREAS DAMAGED BY CONSTRUCTION ACTIVITIES (I.E. NEW HVAC, ELECTRICAL, PLUMBING SYSTEMS) SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS PRIOR TO DAMAGE. NEW FINISHES SHALL MATCH IN MATERIAL, COLOR, TEXTURE, AND PROFILE TO THE ADJACENT EXISTING CONDITIONS.
- DESKS, CHAIRS, TABLES, PAPERS, POSTERS, BOOKS, MAPS, FANS AND OTHER SUCH LOOSE EQUIPMENT, FURNISHINGS AND SUPPLIES SHALL BE REMOVED BY THE OWNER.
- HATCHED AREAS IN THE DEMOLITION PLANS REPRESENT WALLS OR ITEMS TO BE DEMOLISHED. NO WORK TO OCCUR IN AREAS OUTSIDE OF THE BOUNDARY OF CONSTRUCTION NOR IN THE AREAS NOT HATCHED.
- THESE DRAWINGS SHOW ITEMS TO BE DEMOLISHED FOR THIS PROJECT BEFORE THE START AND DURING PHASE 2 CONSTRUCTION. THE GENERAL CONTRACTOR WILL SCHEDULE SEQUENCE WHEN THE DEMOLITION WILL OCCUR. DEPENDING ON THE SCHEDULE ADDITIONAL CONSTRUCTION MAY BE NEEDED TO OCCUR THAT IS NOT SHOWN IN THE DOCUMENTS THAT IS NEEDED TO PROTECT AND/OR SECURE THE EXISTING STRUCTURE.
- A MEETING SHALL BE HELD, PRIOR TO THE COMMENCEMENT OF DEMOLITION WORK, BETWEEN THE ARCHITECT, PROJECT MANAGER AND THE GENERAL CONTRACTOR TO COORDINATE THE REMOVAL OF MATERIALS IN A MANNER THAT WILL NOT AFFECT THE OWNER'S ONGOING OPERATIONS THE LEAST.
- THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF 72 HOURS PRIOR TO ANY DISRUPTION OF SERVICES INCLUDING LIFE SAFETY SYSTEMS. EXISTING LIFE SAFETY SYSTEMS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE WORK.

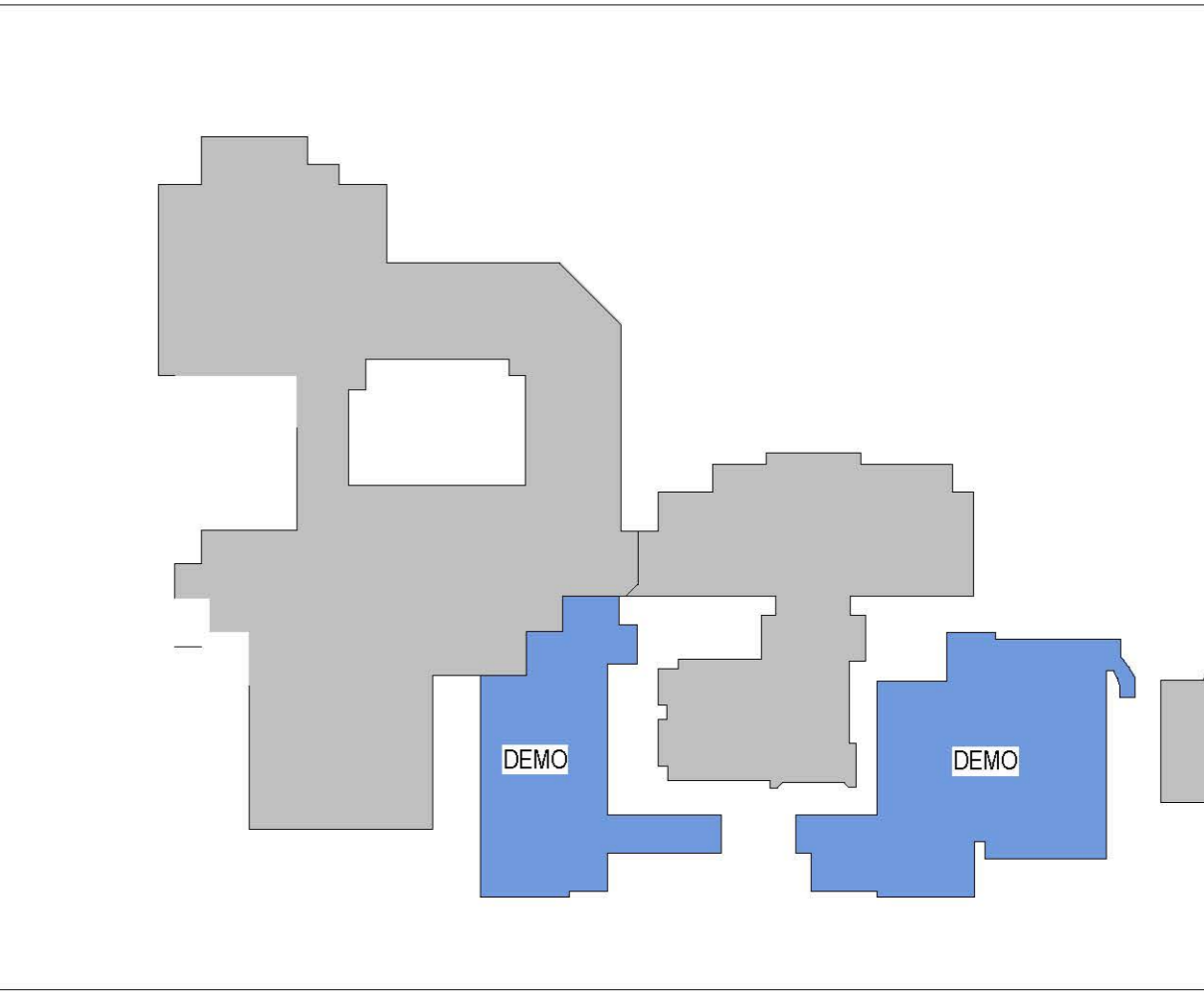


1100 LEVEL - OVERALL DEMOLITION PLAN
1" = 30'-0"

GENERAL DEMOLITION KEYNOTES

- | | | | |
|---|---|--|---|
| <p>1 DEMOLISH TOTAL EXISTING BUILDING SHOWN HATCHED AND WALL SHOWN DASHED INCLUDING WALLS, FLOOR SLAB, DOORS, WINDOWS, CEILING, ROOF, PLUMBING FIXTURES AND ALL ASSOCIATED UTILITIES.</p> <p>2 AFTER DEMOLITION, WALL SURFACES SHALL BE SMOOTH AND FLUSH. ANY PROTRUSIONS AND/OR DEPRESSIONS NEED TO BE REMOVED OR FILLED. WALL SHOULD BE PREPARED FOR INSTALLATION OF EXTERIOR FINISH.</p> <p>3 REMOVE 1953 BUILDING TRENCHES.</p> <p>4 INFILL BELOW SLAB TRENCH OPENING WITH 8" CMU WITH LIQUID APPLIED DAMPROOFING.</p> <p>5 DEMOLISH EXISTING COVERED WALKWAY TO INCLUDE COLUMNS, WALLS, SLABS, FOUNDATIONS AND ROOF.</p> <p>6 DEMOLISH CLERESTORY WINDOWS, METAL PANEL, PLASTER, INTERIOR PLASTER AND WOOD SOFFIT AT MEDIA CENTER. KEEP UPPER ROOF AND SOFFIT CONSTRUCTION. COORDINATE WITH WALL SECTIONS ON A40333.</p> <p>7 PREPARE GRADE IN THIS AREA FOR NEW CONCRETE SLAB. COORDINATE EXTENTS WITH NEW CONSTRUCTION A120.</p> <p>8 COORDINATE DEMOLITION EXTENT OF SOIL NAIL WALL WITH STRUCTURAL DRAWINGS.</p> <p>9 DEMOLISH WALLS, DOORS, WINDOWS, SOFFIT, ETC. COORDINATE EXTENTS WITH NEW CONSTRUCTION.</p> <p>10 DEMOLISH DOOR AND FRAME, COORDINATE EXTENTS WITH NEW CONSTRUCTION.</p> <p>11 DEMOLISH WINDOW SYSTEM, COORDINATE EXTENTS WITH NEW CONSTRUCTION.</p> <p>12 DEMOLISH BRICK PIERS, EXTERIOR WALLS ABOVE. INSTALL TEMPORARY WEATHER TIGHT CONSTRUCTION CAP ON TOP OF SHORTENED BRICK PIERS. SEE C41AD610.</p> <p>13 INSTALL TEMPORARY WEATHER TIGHT CAP ON TOP OF EXISTING BRICK PIERS AND BRICK VENEER. SEE B4 & C41AD610.</p> <p>14 REMOVE GUARDRAIL FROM TOP OF WALL. REPAIR WALL AS NEEDED FOR NEW CONSTRUCTION.</p> | <p>15 DEMOLISH EXISTING PEDESTAL PAVEMENT SYSTEM, INSULATION, WATERPROOFING AND SOFFIT MATERIALS. PREPARE AREA FOR INSTALLATION OF NEW CONSTRUCTION.</p> <p>16 DEMOLISH BRICK AND CMU DUMPSTER ENCLOSURE, CONCRETE PAD, BOLLARDS, ETC.</p> <p>17 DEMOLISH EXISTING RADIO TOWER EQUIPMENT, CONCRETE PAVEMENT AND FOUNDATIONS.</p> <p>18 DEMOLISH SHADDED PORTION OF RETAINING WALL. COORDINATE EXTENT WITH CIVIL DRAWINGS AND NEW CONSTRUCTION.</p> <p>19 REMOVE AND SALVAGE EXISTING GREENHOUSE FRAMING, PLASTIC AND EQUIPMENT AND TURN EVERYTHING OVER TO THE OWNER. TERMINATE ALL UTILITIES (GAS, ELECTRIC, WATER, ETC.).</p> <p>20 REMOVE BYRNES HIGH SCHOOL MEDALION LETTERS AND ANCHORING DEVICES AND RETURN TO OWNER.</p> <p>21 REMOVE EXIT SIGN FROM ABOVE DOOR.</p> <p>22 COORDINATE ROOF MEMBRANE DEMOLITION WITH NEW GRAVEL STOPS DETAILS INDICATED ON B1AD130.</p> <p>23 COORDINATE ROOF MEMBRANE DEMOLITION WITH NEW PARAPET CAP DETAILS INDICATED ON B1-AD130.</p> <p>24 REPAIR EXISTING GRAVEL STOP AS NEEDED TO PROTECT EXISTING BUILDING.</p> <p>25 REPAIR/MAINTAIN ROOF CRICKETS TO HAVE ROOF DRAINAGE TO EXISTING ROOF DRAINS.</p> <p>26 REMOVE EXISTING DOORS AND HARDWARE. REPAIR AND PATCH ALL HOLES IN FRAME AND PAINT.</p> <p>27 DEMOLISH COOLING TOWER, CONCRETE PAD, FENCING, MASONRY WALL, ETC. COORDINATE WITH MECHANICAL AND CIVIL DRAWINGS.</p> <p>28 REMOVE DOORS, FRAME AND WALL AS NEEDED. SALVAGE DOORS FOR REUSE AND REPLACE FRAME. INSTALL NEW FRAME AND INSTALL SALVAGED DOORS. COORDINATE WITH DEMOLITION, NEW CONSTRUCTION DRAWINGS (A120). REMOVE AND REINSTALL DOOR AND FRAME IN ORIGINAL POSITION WHEN PHASE 2 CONSTRUCTION IS COMPLETE.</p> | <p>29 REMOVE DOOR, FRAME AND WALL AS NEEDED. SALVAGE AND STORE DOOR AND FRAME. REINSTALL FRAME IN SAME LOCATION AFTER PHASE 2 CONSTRUCTION IS COMPLETE.</p> <p>30 DEMO AND PREPARE AREA FOR TRENCH/UTILITY INSTALLATION. COORDINATE WITH CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.</p> <p>31 COORDINATE SITE, PAVEMENT AND UTILITY DEMOLITION IN COURTYARD WITH CIVIL DRAWINGS.</p> <p>32 DEMOLISH EXISTING FLOOR DRAIN AND HORIZONTAL DRAIN LINES TO VERTICAL DRAIN AND CAP.</p> <p>33 DEMOLISH EXISTING ROOF DRAIN AND HORIZONTAL DRAIN LINE TO VERTICAL DRAIN AND CAP.</p> <p>34 DEMOLISH EXISTING OVERFLOW DRAIN, HORIZONTAL DRAIN LINE AND COWS TONGUE DRAIN. PATCH THE WALL THAT REMAINS TO MATCH ADJACENT CONSTRUCTION.</p> <p>35 PATCH OPENINGS CREATED BY ROOF DRAIN, FLOOR DRAIN AND OVERFLOW DRAIN DEMOLITION IN 3 HOUR WALL TO MAINTAIN RATED CONSTRUCTION PER U.L. APPROVED DESIGN.</p> <p>36 DEMOLISH CEILING, LIGHTS, SOFFITS, LINTELS, ETC.</p> <p>37 PATCH OPENINGS CREATED BY ROOF DRAIN, FLOOR DRAIN AND OVERFLOW DRAIN DEMOLITION TO MATCH ADJACENT CONSTRUCTION AND RATINGS.</p> <p>38 PROVIDE A 4'-0" w. x 8'-0" h. OPENING IN EXISTING CONCRETE RETAINING WALL FOR NEW DOOR INTO FUTURE EXIT STAIR. COORDINATE WITH STRUCTURAL DRAWING SD101.</p> <p>39 PROVIDE A 11'-0" w. x 12'-0" h. OPENING IN EXISTING CONCRETE RETAINING WALL. SEE A2 & A4AD333. COORDINATE WITH STRUCTURAL DRAWING SD101.</p> <p>40 PROVIDE A 14'-0" w. x 6'-8" h. OPENING IN EXISTING CONCRETE RETAINING WALL FOR NEW WINDOW (BILL IS 2'-0" AFF AND HEAD IS 6'-8" AFF) COORDINATE WITH STRUCTURAL DRAWING SD101.</p> <p>41 CUT CONCRETE SLAB (4'-0" MIN. FROM COLUMN CENTERLINES) FOR FUTURE FOUNDATION MODIFICATIONS (INSTALLATION OF HELICAL PIERS). COORDINATE WITH STRUCTURAL DRAWINGS.</p> <p>42 DEMOLISH/SALVAGE EXISTING FLOORING METAL CEILING SYSTEM, LIGHT FIXTURES AND CEILING MOUNTED EQUIPMENT. THESE ELEMENTS WILL NEED TO BE REPLACED/REINSTALLED AT END OF PHASE 2 CONSTRUCTION.</p> | <p>43 DEMOLISH WALL AT COLUMNS AS NEEDED TO MAKE NEW COLUMN TO EXISTING COLUMN. COORDINATE REQUIREMENTS AND EXTENTS WITH STRUCTURAL DRAWINGS.</p> <p>44 DEMOLISH PRECAST CONCRETE PROJECTION AS NEEDED TO INSTALL FUTURE EXPANSION JOINT AND FUTURE WALL.</p> <p>45 DEMOLISH EXISTING GYP BOARD SOFFIT AND STUD FRAMING AS NEEDED TO INSTALL NEW 1 HOUR WALL. COORDINATE WITH A121. THE SOFFIT WILL NEED TO BE REPLACED/REINSTALLED AT END OF PHASE 2 CONSTRUCTION.</p> <p>46 DEMOLISH/SALVAGE EXISTING ACOUSTICAL CEILING, GRID SYSTEM, LIGHT FIXTURES AND CEILING MOUNTED EQUIPMENT. THESE ELEMENTS WILL NEED TO BE REPLACED/REINSTALLED AT END OF PHASE 2 CONSTRUCTION.</p> <p>47 SEE HVAC DRAWINGS FOR DEMOLITION IN THIS ROOM.</p> |
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KEY PLAN





HA#'s

- 81
- 82
- 86
- 87
- 89
- 90



**ATTACHMENT IV
ACCREDITATION(S)**

SCDHEC ISSUED

Asbestos ID Card

Haley Jones



AIRSAMPLER
CONSULTBI
CONSULTMP

AS-00559
BI-01733
MP-00261

Expiration Date:

04/30/24

05/01/24

11/03/23

SCDHEC ISSUED

Asbestos ID Card

Evans Harris



AIRSAMPLER
CONSULTBI
CONSULTPD

AS-00383
BI-01224
PD-00149

Expiration Date:
06/11/24
06/12/24
10/31/24