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September 15, 2021

ASBESTOS INSPECTION REPORT

Holloman Elementary School Holloman Air Force Base Alamogordo, NM

Prepared For:

Alamogordo Public Schools 1211 Hawaii Ave. Alamogordo, NM 88310

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Scott Puma Environmental Consultant



ASBESTOS INSPECTION REPORT

Date:	September 15, 2021
Client:	Alamogordo Public Schools 1211 Hawaii Ave. Alamogordo, NM 88310 Attn: Justin Burks
Site Address:	Holloman Elementary School Holloman Air Force Base Alamogordo, NM
Site Information:	The site consists of an elementary school with four buildings/wings; the main building, west wing, east wing, and cafeteria. The gross school building square footage is approximately 76,000 square feet. The buildings are currently occupied, but scheduled for demolition.
Date of Inspection:	June 9 th and 23 rd , 2021
Inspectors:	Scott Puma (Certification # ABIR-N2021-1057) Junior Fresquez (Certification # ABIR-N2021-1068)

INTRODUCTION

Havona Environmental, Inc. is pleased to present you with the results from the asbestos inspection conducted at Holloman Elementary School located on Holloman Air Force Base in Alamogordo, New Mexico. Havona Environmental was authorized by Justin Burks, Chief of Capital Outlay and Facilities, to conduct the inspection. All work performed at this site was done by accredited AHERA asbestos inspectors and in general accordance to all applicable regulations.

On June 9th and 23rd, 2021 Scott Puma and Junior Fresquez, AHERA accredited asbestos inspectors with Havona Environmental, conducted the inspection. The purpose of the inspection was to identify, map, and quantify the suspect asbestos containing materials from the interior and exterior of each building. Some areas were in accessible at the time of the inspection.

SITE INFORMATION

The site consists of an elementary school with four buildings/wings; the main building, west wing, east wing, and cafeteria. The gross school building square footage is approximately 76,000 square feet. The buildings are currently occupied, but scheduled for renovation or demolition. Each building/wing was inspected independently of one another.

Main Building

The main building is approximately 18,000 square feet. The interior of the building consists of plaster, ceramic tile, textured drywall, CMU block, and ceramic block for the walls; spray applied ceiling texture, plaster, lay in ceiling tile, and glued on ceiling tile for the ceilings; and carpet, ceramic, concrete, and vinyl floor tile for the floors. The exterior of the building is CMU block and brick with a flat roof.

At this site, a total of one hundred nine samples were collected of thirty-six homogenous materials from fifty-four functional spaces and the exterior. The materials sampled included; cove base mastic, carpet mastic, glued on ceiling tile mastic, cork board mastic, vinyl floor tile/mastic, pipe mud fittings, textured drywall, taping compound, plaster, glued on ceiling tile, lay in ceiling tile, spray applied ceiling tile, duct mastic, roof core, roof tar, CMU block surface compound, sink under coat, window glazing, window/door caulking, stucco, transite panels, transite chalk board, and peg board.

Of the materials sampled, nine were identified to be asbestos containing materials (ACM) and two were assumed to be ACM. The materials identified to be ACM include three types of vinyl floor tile/mastic, residual black flooring mastic, spray applied ceiling texture, window/door caulking, stucco, transite panels, and transite chalk boards/mastic. The materials assumed to be ACM include the vault door insulation and chalk board mastic.

West Wing

The west classroom wing is approximately 10,225 square feet. The interior of the building consists of textured drywall, CMU block, plaster, and ceramic tile for the walls; glued on ceiling tile and plaster for the ceilings; and carpet, concrete, ceramic, and vinyl floor tile for the floors. The exterior of the building is CMU block and brick with a flat roof.

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At this site, a total of sixty-seven samples were collected of twenty-three homogenous materials from twenty-nine functional spaces and the exterior. The materials sampled included; cove base mastic, carpet mastic, glued on ceiling tile mastic, vinyl floor tile/mastic, pipe mud fittings, pipe insulation, textured drywall, taping compound, plaster, glued on ceiling tile, duct mastic, CMU block surface compound, stucco, window glazing, door/window caulking, roof penetration tar, and roof core.

Of the materials sampled, nine were identified to be asbestos containing materials (ACM). The materials identified to be ACM include four types of vinyl floor tile/mastic, pipe mud fittings, pipe insulation, stucco, window glazing, and exterior CMU block surface compound.

Cafeteria Building

The cafeteria building is approximately 7,560 square feet. The interior of this building consists of textured drywall, ceramic, plaster, and CMU block for the walls; lay in ceiling tile, metal, glued on ceiling tile, and textured drywall for the ceilings; and concrete, vinyl floor tile, ceramic tile, and epoxy for the floors. The exterior of the building is brick and CMU block with a flat roof.

At this site, a total of fifty-nine samples were collected of twenty homogenous materials from fifteen functional spaces and the exterior. The materials sampled included; cove base mastic, vinyl floor tile/mastic, epoxy floor coating, pipe mud fittings, textured drywall, taping compound, plaster, lay in ceiling tile, stapled on ceiling tile, CMU block surface compound, window glazing, door/window caulking, stucco, pipe penetration fill, roof duct tar/silver paint, roof penetration tar, and roof core.

Of the materials sampled, nine were identified to be asbestos containing materials (ACM). The materials identified to be ACM include the cove base mastic, pipe mud fittings, taping compound, interior/exterior CMU block surface compound, window glazing, door/window caulking, roof duct tar/silver paint, and roof penetration tar.

East Wing

The east wing includes an original classroom wing with an addition that is approximately 26,330 of gross square feet. The interior of the building consists of CMU block, plaster, ceramic, ceramic, and textured drywall for the walls; lay in ceiling tile, plaster, textured drywall, and glued on ceiling tile for the ceilings; and carpet, ceramic, concrete, and vinyl floor tile for the floors. The exterior of the building is CMU block and brick with a flat roof.

At this site, a total of ninety-one samples were collected of thirty-one homogenous materials from thirty-six functional spaces and the exterior. The materials sampled included; cove base mastic, carpet mastic, glued on ceiling tile mastic, vinyl floor tile/mastic, pipe mud fittings, textured drywall, taping compound, plaster, glued on ceiling tile, lay in ceiling tile, roof core, roof penetration tar, roof duct mastic/silver paint, sink under coat, CMU block surface compound, window/door caulking, window glazing, stucco, and transite panels.

Of the materials sampled, seven were identified to be asbestos containing materials (ACM). The materials identified to be ACM include three types of vinyl floor tile/mastic, window/door caulking, exterior CMU block surface compound, transite door panel, and transite soffit panels.

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RESULTS

The following materials were sampled and identified by laboratory analysis to be asbestos containing materials or assumed to be asbestos containing materials:

Main Building

Material	Location	Quentity/Amount	Asbeston Content
9x9 (A) Beige and Brown-Streaked Vinyl Floor Tile/ Black Mastic	Auditorium	~2,480 Sq. Ft.	Tile: 5% Chrysotile Mastic: 5% Chrysotile
9x9 (B) Green Streaked Vinyl Floor Tile/ Black Mastic	 11C, 12C, 10C, Lounge C, 11, 12, 10, 9, Library, 6, 4. 2, 15, 17, 19, 21, 23, 18, 16, 14, Lit, Library, Principal, Office, Secretary, Office Hall 	~13,535 Sq. Ft.	Tile: 5% Chrysotile Mastic: 5% Chrysotile
9x9 (C) Red Streaked Vinyl Floor Tile/ Black Mastic	Office Vault	~64 Sq. Ft.	Tile: 3% Chrysotile Mastic: 5% Chrysotile
12x12 (B) Cream Spackled Vinyl Floor Tile/ Black Mastic	Office Restroom	~42 Sq. Ft.	Tile: None Detected Mastic: 3% Chrysotile
Spray Applied Ceiling Tile	Foyer, Auditorium, 15, 14, 17, 19, 16, 21, 23, 18, Lit. Library, Hall 2, H2 Boy's Restroom, H2 Girls Restroom	~11,600 Sq. Ft.	8% Chrysotile
Window/Door Caulking	Exterior	~7 Doors Windows ~1.560 Linear Ft.	4% Chrysotile
Stucco Soffit	Front Entry. West Entry	~60 Sq. Ft.	3% Chrysotile
Transite Roof Deck and Soffit	Roof Deck and Soffits	~25,060 Sq. Ft.	15% Chrysotile
Transite Chalk Boards/Mastic	1. 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 21, 23, Lit. Library	4'x15' 2 Per Room ~20 Total	Boards: 15% Chrysotile Mastic: Assumed
Vault Door Insulation	Office-Vault	~1 Door	Assumed
Residual Black Flooring Mastic	1, 3, 5, 7 (Under Carpet)	~2,640 Sq. Ft.	Assumed

*Asbestos abatement contractors should verify quantities and amounts before biding the project.

West Wing

Contraction	Location	Quantity/Amount	Asbeston Content
9x9 (A) Green Streaked	PT Closet, Work Room	~25 Sq. Ft.	Tile: 3% Chrysotile
Vinyl Floor Tile/ Black	Closet		Mastic: 5% Chrysotile
Mastic			
9x9 (B) White Spackled	PT Restroom, Work Room	~~50 Sq. Ft.	Tile: 2% Chrysotile
Vinyl Floor Tile/ Black	Restroom		Mastic: 5% Chrysotile
Mastic			
9x9 (C) Beige Spackled	Storage, 32C, 33C, 35C,	~290 Sq. Ft.	Tile: 2% Chrysotile
Vinyl Floor Tile/ Black	34C, 36C, 37C		Mastic: 5% Chrysotile
Mastic			
Vinyl Floor Tile Under	32, 33, 35, 34, 36, 37,	~4.760 Sq. Ft.	Tile: 2-3% Chrysotile
Carpet	Work Room		Mastic: 5% Chrysotile

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Pipe Mud Fittings	Pipe Chase, 34C West (Assumed to be in other locations)	Unknown	6% Chrysotile
Air Cell Pipe Insulation	Pipe Chase (Assumed to be in other locations)	Unknown	6% Chrysotile
Stucco Soffit	Exterior	~1.275 Sq. Ft.	3% Chrysotile`
Window Glazing	Exterior	~7 Windows	2% Chrysotile
CMU Block Surfacer	Exterior	~5,535 Sq. Ft.	2% Chrysotile

*Asbestos abatement contractors should verify quantities and amounts before biding the project.

Cafeteria Building

Material	Location	Quantity/Amount	Asbestos Content.
Cove Base Mastic (Brown)	Hall, Custodial Closet, Cafeteria	~350 Linear Ft.	2% Chrysotile
Pipe Mud Fittings	Cafeteria	Unknown	7% Chrysotile
Taping Compound A	Walls-Janitor's Closet Ceilings-Dry Storage, Kitchen Office, Gym North Storage, Janitors Closet	~525 Sq. Ft.	2% Chrysotile
CMU Block Surfacer	Interior	~9,060 sq. Ft.	3% Chrysotile
CMU Block Surfacer	Exterior	~6,000 Sq. Ft.	2% Chrysotile
Window Glazing	Exterior	Unknown	2% Chrysotile
Door/Window Caulking	Exterior	~8 Doors Windows Unknown	2-3% Chrysotile
Duct Tar/ Silver Paint	Roof Duct	~2 Ducts	5-10% Chrysotile
Roof Penetration Tar	Roof	~40 Penetrations	5% Chrysotile

*Asbestos abatement contractors should verify quantities and amounts before biding the project.

East Wing

A Stateman	Location	Quantity/Amount	Asbestos Content
9x9 Green Streaked Vinyl Floor Tile/ Black Mastic	Janitors Closet	~50 Sq. Ft.	Tile: 6% Chrysotile Mastic: 3% Chrysotile
9x9 Beige Spackled Vinyl Floor Tile/ Black Mastic	Office Under Carpet-24, 25, 27	~2.055 Sq. Ft.	Tile: 6% Chrysotile Mastic: 5% Chrysotile
12x12 Cream with Brown Streaks Vinyl Floor Tile/ Black Mastic	Hall 3, Hall 4	~475 Sq. Ft.	Tile: 3% Chrysotile Mastic: 5% Chrysotile
Window/Door Caulking	Exterior-Original Building	~6 Doors ~7 Windows	3% Chrysotile
CMU Block	Original Building- Exterior	~6,480 Sq. Ft.	2% Chrysotile
Transite Door Panel	Hall I	~2 Panels	4% Chrysotile
Transite Soffit	Exterior	~1.925 Sq. Ft.	15% Chrysotile

*Asbestos abatement contractors should verify quantities and amounts before biding the project.



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Cove Base Mastic

The asbestos containing cove base mastic is a non-friable, miscellaneous material that was in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category I, Non-Friable.

Vinyl Floor Tile and Associated Mastic

The asbestos containing vinyl floor tile and associated mastic is a non-friable, miscellaneous material that was in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category I, Non-Friable.

Residual Black Flooring Mastic

The asbestos containing residual black flooring mastic is a non-friable, miscellaneous material that was in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-Friable.

Air Cell Pipe Insulation

The asbestos containing air cell pipe insulation is a friable, thermal insulating material that was in fair to damaged condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class I work and categorized by NESHAP as Regulated Asbestos Containing Material (RACM).

Pipe Mud Fittings

The asbestos containing pipe mud fittings are non-friable, thermal systems insulating material that were in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class I work and categorized by NESHAP as Regulated Asbestos Containing Material (RACM).

Taping/Joint Compound

The asbestos containing taping/joint compound is a non-friable, miscellaneous material that was in fair to damaged condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Regulated Asbestos Containing Material (RACM).

Spray Applied Ceiling Texture

The asbestos containing spray applied ceiling texture is a friable, surfacing material that was in fair condition at the time of sampling. Removal of this ACM is classified by OSHA as Class I work and categorized by NESHAP as a Regulated Asbestos Containing Material (RACM).

Roofing Tars

The asbestos containing roofing tars are non-friable, miscellaneous materials that were in fair condition at the time of the sampling. Removal of this ACM is not classified by OSHA and categorized by NESHAP as Category II, Non-Friable.



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Window Glazing

The asbestos containing window glazing is a non-friable, miscellaneous material that was in fair to damaged condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-Friable.

Stucco

The asbestos containing stucco is a non-friable, surfacing material that was in fair condition at the time of the sampling. Removal of this asbestos is classified by OSHA as Class I work and categorized by NESHAP as Regulated Asbestos Containing Material (RACM).

Transite

The asbestos containing transite is a non-friable, miscellaneous material that was in fair condition at the time of the inspection. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-Friable.

CMU Block Surfacing Compound

The asbestos containing CMU block surfacing compound is a non-friable, miscellaneous material that was in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-Friable.

Door/Window Caulking

The asbestos containing door/window caulking is a non-friable, miscellaneous material that was in fair condition at the time of the sampling. Removal of the ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-friable.

LABORATORY ANALYSIS

Samples of suspect ACM were analyzed by CA Labs of Baton Rouge, Louisiana. CA Labs is an accredited laboratory recognized as a participant in the Department of Commerce, National Institute of Standards and Technology's, National Laboratory Accreditation Program (NVLAP # 200772-0).

Bulk samples were analyzed by Polarized Light Microscopy (PLM) and Point Count methods. Methodology: EPA 600/R-93/116.

ASBESTOS NESHAP TERMINOLOGY

Per the National Standards for Hazardous Air Pollutants (NESHAP), Subpart M-National Emission Standard for Asbestos Regulations, an "asbestos containing material" is defined as any material containing more than 1 % asbestos, as determined using the PLM method.

Materials reported with trace amounts of asbestos, less than 1%, are not regulated by EPA as ACM. OSHA identifies that it is the employer's responsibility in determining the applicability of 29CFR 1926.1101 in regards to employee exposure when materials containing equal to or less than 1% asbestos are disturbed.

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Category I non-friable ACM—is asbestos containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 % asbestos.

Category II non-friable ACM—is any material, excluding Category I that contains more than 1 % asbestos and is non-friable.

Regulated Asbestos Containing Material (RACM)—is friable asbestos material, Category I ACM that has become friable, Category I that will be disturbed and become friable, and Category II ACM that has a possibility of becoming friable in the course of demolition or renovation operations

NESHAP REGULATIONS

Per NESHAP regulations, prior to the commencement of any demolition or renovation activity in the structure, all RACM must be removed from that structure if the construction activity would break, dislodge, or disturb these materials. NESHAP addresses not only friable ACM, but also those non-friable ACM's that could become friable as a result of demolition or renovation.

During renovation or demolition operations, materials may be uncovered that are different from those accessible for sampling during the survey. If suspect asbestos containing materials are found or uncovered during renovation or demolition, additional sampling should be performed to determine if the materials are asbestos containing materials.

LIMITATIONS

This report has been prepared to assist Alamogordo Public Schools in assessing the building materials at the site specified above. This report only describes the conditions present at the time of the survey, in the areas surveyed. Other conditions may exist in areas that were not surveyed or inaccessible areas, such as, behind walls, above permanent ceilings, or below floors.

Havona Environmental will not be held responsible if additional contaminates are found at the property reference above at a later date, or if contaminates are located at various locations on the property not included in the scope of work. Our professional services have been performed in a manner consistent with the level of care and skill ordinarily exercised by members of the professional community currently practicing under similar conditions in the locality of the project. No warranty, expressed or implied, is made or intended.

Havona Environmental is not responsible for any independent conclusions or recommendations made by others based on the services provided on this project. Havona assumes no liability for any loss, injury, claim or damages arising directly or indirectly from any use or reliance on this report to the opinions expressed herein.

IF YOU CHOOSE TO REMOVE ASBESTOS CONTAINING MATERIALS, IT MUST BE DONE BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR (GS-

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29). YOU MUST ALSO SUBMIT THE PROPER NOTIFICATIONS TO NMED-AIR QUALITY DEPARTMENT.

THIS REPORT SHOULD NOT BE REPRODUCED EXCEPT IN FULL!!

If you have any questions or need additional information, please contact Havona Environmental, Inc. at 505-232-9533. Thank you for allowing us to provide you with these services.

Respectfully Yours,

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Scott Puma Environmental Consultant

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Junior Fresquez Field Technician

Attachments:

Appendix A: Functional Space and ACM Location DiagramAppendix B: Material Sample LogsAppendix C: Laboratory Results and Chain of CustodyAppendix D: Inspector's Certification



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APPENDIX A









APPENDIX B



ASBESTOS INSPECTION MATERIAL SAMPLE LOG

Project: Holloman Elementary School (Main Building)			Location: Alamogordo, NM (Holloman Air Force Base)					
Prepared For: Alamogordo Public Schools			Inspection	Inspection Date: June 9 th and 23 rd , 2021				
Sample #	Material	Functional Space Location	Quantity	Material Type	Condition	Friable/ Non-Friable	Asbestos Content	
HESM-M-1A1-1, 1A2-2, 1A3-3	Cove Base Mastic (Brown)	Throughout	N/A	Misc.	Fair	NF	None Detected	
HESM-M-1B1-4, 1B2-5, 1B3-6	Carpet Mastic (Yellow)	23, 18, 21, 19, 16,17, 14, 15, Lounge, 11, 12, 10, Library, 7, 5, 6, 3, 4, 1, 2, Secretary, Principal's Office, Office	N/A	Misc.	Fair	NF	None Detected	
HESM-M-1C1-7, 1C2-8, 1C3-9	1x1 Glued on Ceiling Tile Mastic (A) Fiberglass	Auditorium Storage D	. N/A	Misc.	Fair	NF	None Detected	
HESM-M-1D1-10, 1D2-11, 1D3- 12	1x1 Glued on Ceiling tile Mastic (B) Peg Pattern	Library	N/A	Misc.	Fair	NF	None Detected	
HESM-M-1E1-13, 1E2-14, 1E3- 15	Cork Board Mastic	4	N/A	Misc.	Fair	NF	None Detected	
HESM-M-2A1-16, 2A2-17, 2A3-18	9x9 (A) Beige and Brown-Streaked Vinyl Floor Tile/ Black Mastic	Auditorium	~2,480 Sq. Ft.	Misc.	Fair	NF	Tile: 5% Chrysotile Mastic: 5% Chrysotile	
HESM-M-2B1-19, 2B2-20, 2B3- 21	9x9 (B) Green Streaked Vinyl Floor Tile/ Black Mastic	11C, 12C, 10C, Lounge C, 11, 12, 10, 9, Library, 6, 4, 2, 15, 17, 19, 21, 23, 18, 16, 14, Lit. Library, Principal, Office, Secretary, Office	~13,535 Sq. Ft.	Misc.	Fair	NF	Tile: 5% Chrysotile Mastic: 5% Chrysotile	

		Hall					
HESM-M-2C1-22, 2C2-23	9x9 (C) Red Streaked Vinyl Floor Tile/ Black Mastic	Office Vault	~64 Sq. Ft.	Misc.	Fair	NF	Tile: 3% Chrysotile Mastic: 5% Chrysotile
HESM-M-2D1-24, 2D2-25, 2D3- 26	12x12 (A) Off-White Spackled Vinyl Floor Tile/ Yellow Matic	Nurse, Nurse Restroom	N/A	Misc.	Fair	NF	Tile: None Detected Mastic: None Detected
HESM-M-2F1-27, 2F2-28	12x12 Cream Self- Adhesive Vinyl Floor Tile	Lounge Restroom	N/A	Misc.	Fair	NF	None Detected
HESM-M-2E1-29, 2E2-30	12x12 (B) Cream Spackled Vinyl Floor Tile/ Black Mastic	Office Restroom	~42 Sq. Ft.	Misc.	Fair	NF	Tile: None Detected Mastic: 3% Chrysotile
HESM-T-3A1-31, 3A2-32, 3A3- 33	Pipe Mud Fittings	Auditorium Storage C	N/A	TSI	Fair	NF	None Detected
HESM-S-4A1-34, 4A2-35, 4A3- 36, 4A4-37, 4A5-38	Textured Drywall A (Bumpy)	Soffits-14, 15, 16, 17, 18, 19, 21, 23, Lit. Library	N/A	Surfacing	Fair	NF	None Detected
HESM-M-4B1-39, 4B2-40, 4B3- 41	Taping Compound A	Soffits-14, 15, 16, 17, 18, 19, 21, 23, Lit. Library	N/A	Misc.	Fair	NF	None Detected
HESM-S-4C1-42, 4C2-43, 4C3- 44	Textured Drywall B (Light Orange Peel)	Office Sec., Office, Principals Office	N/A	Surfacing	Fair	NF	None Detected
HESM-M-4D1-45, 4D2-46, 4D3- 47	Taping Compound B	Office Sec., Office, Principals Office	N/A	Misc.	Fair	NF	None Detected
HESM-S-4E1-48, 4E2-47, 4E3- 50, 4E4-51, 4E5-52, 4E6-53, 4E7-54	Plaster	Throughout	N/A	Surfacing	Fair	NF	*0.75% Chrysotile
HESM-M-5A1-55, 5A2-56, 5A3- 57	1x1 Fiberglass Ceiling Tile	Auditorium Storage D	N/A	Misc.	Fair	NF	None Detected
HESM-M-5B1-58, 5B2-59, 5B3- 60	1x1 PEG Ceiling Tile	East Classroom Wing	N/A	Misc.	Fair	NF	None Detected
HESM-M-5C1-61, 5C2-62, 5C3- 63	2x4 (A) Squiggly Lay in Ceiling Tile	Auditorium Storage	N/A	Misc.	Fair	NF	None Detected
HESM-M-5D1-64, 5D2-65, 5D3- 66	2x4 (B) Divot Lay in Ceiling Tile	Secretary, Nurse, Office Hall	N/A	Misc.	Fair	NF	None Detected
HESM-S-6A1-67, 6A2-68, 6A3- 69, 6A4-70, 6A5-71	Spray Applied Ceiling Tile	Foyer, Auditorium, 15,	~11,600 Sq. Ft.	Misc.	Fair	NF	8% Chrysotile

		14, 17, 19, 16, 21, 23, 18, Lit. Library, Hall 2, H2 Boy's Restroom, H2 Girls Restroom					
HESM-M-8A1-72, 8A2-73, 8A3- 74	Duct Mastic	Hall 1, Hall 2, Entry, Foyer	N/A	Misc.	Fair	NF	None Detected
HESM- M-9A1-75, 9A2-76	Roof Core	Roof	N/A	Misc.	Fair	NF	None Detected
HESM-M-9B1-77	Roof Deck with Tar	Roof	N/A	Misc.	Fair	NF	None Detected
HESM-M-9C1-78, 9C2-79, 9C3- 80	Penetration Tar	Roof	N/A	Misc.	Fair	NF	None Detected
HESM-M-9D1-81, 9D2-82, 9D3- 83	Grey Duct Mastic with Silver Pain	Roof	N/A	Misc.	Fair	NF	None Detected
HESM-M-10A1-84, 10A2-85, 10A3-86	CMU Black Surfacer	Library, Auditorium	N/A	Misc.	Fair	NF	None Detected
HESM-M-10B1-87, 10B2-88	Sink Undercoat (White)	East Classroom Wing, 9, 6, 5, 4, 3, 2, 1	N/A	Misc.	Fair	NF	None Detected
HESM-M-10C1-89, 10C2-90, 10C3-91	Exterior CMU	Exterior	N/A	Misc.	Fair	NF	None Detected
HESM-M-10D1-82, 10D2-93, 10D3-94	Window Glazing (Exterior)	Exterior	N/A	Misc.	Fair	NF	None Detected
HESM-M-10E1-95, 10E2-96, 10E3-97	Window/Door Caulking	Exterior	~7 Doors Windows ~1,560 Linear Ft.	Misc.	Fair	NF	4% Chrysotile
HESM-S-10F1-98, 10F2-99, 10F3-100	Stucco Soffit	Front Entry, West Entry	~60 Sq. Ft.	Misc.	Fair	NF	3% Chrysotile
HESM-M-10G1-101, 10G2-102, 10G3-103, 10G4-104	Transite Panels	Roof Deck and Soffits	~25,060 Sq. Ft.	Misc.	Fair	NF	15% Chrysotile
HESM-M-10H1-105, 10H2-106, 10H3-107	Transite Chalk Boards/Mastic	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 21, 23, Lit. Library	4'x15' 2 Per Room ~20 Total	Misc.	Fair	NF	Boards: 15% Chrysotile Mastic: Assumed
HESM-M-1011-108, 1012-109	Auditorium PEG Board	Auditorium West Wall	N/A	Misc.	Fair	NF	None Detected
-	Vault Door	Office-Vault	~1 Door	Misc.	Fair	NF	Assumed

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	Insulation						
-	Residual Black	1, 3, 5, 7	~2,640 Sq.	Misc.	Fair	NF	Assumed
	Flooring Mastic	(Under Carpet)	Ft.				

*Point Count Analysis

Project: Holloman Elementary School (West Wing)			Location: Alamogordo, NM (Holloman Air Force Base)					
Prepared For: Alamogordo Public Schools			Inspection	Inspection Date: June 9th and 23 rd , 2021				
Sample #	Material	Functional Space Location	Quantity	Material Type	Condition	Friable/ Non-Friable	Asbestos Content	
HEWS-M-1A1-1, 1A2-2, 1A3-3	Cove Base Mastic (Brown)	Throughout	N/A	Misc.	Fair	NF	None Detected	
HEWS- M-1B1-4, 1B2-5, 1B3-6	Carpet Mastic (Yellow)	32, 33, 35, 34, 36, 37	N/A	Misc.	Fair	NF	None Detected	
HEWS-M-1C1-7, 1C2-8, 1C3-9	1x1 PEG Ceiling Tile Mastic (Brown)	37, 36, 34, 35, Girl's Restroom, Boy's Restroom, 33, 32, PT Room	N/A	Misc.	Fair	NF	None Detected	
HEWS-M-2A1-10, 2A2-11	9x9 (A) Green Streaked Vinyl Floor Tile/ Black Mastic	PT Closet, Work Room Closet	~25 Sq. Ft.	Misc.	Fair	NF	Tile: 3% Chrysotile Mastic: 5% Chrysotile	
HEWS-M-2B1-12, 2B2-13	9x9 (B) White Spackled Vinyl Floor Tile/ Black Mastic	PT Restroom, Work Room Restroom	~~50 Sq. Ft.	Misc.	Fair	NF	Tile: 2% Chrysotile Mastic: 5% Chrysotile	
HEWS-M-2C1-14, 2C2-15, 2C3-16	9x9 (C) Beige Spackled Vinyl Floor Tile/ Black Mastic	Storage, 32C, 33C, 35C, 34C, 36C, 37C	~290 Sq. Ft.	Misc.	Fair	NF	Tile: 2% Chrysotile Mastic: 5% Chrysotile	
HEWS-M-2D1-17, 2D2-18	12x12 Grey Square Pattern Self- Adhesive Vinyl Floor Tile	35 Restroom, 37 Restroom	N/A	Misc.	Fair	NF	None Detected	
HEWS-M-2E1-19, 2E2-20	Vinyl Floor Tile Under Carpet	32, 33, 35, 34, 36, 37, Work Room	~4,760 Sq. Ft.	Misc.	Fair	NF	Tile: 2-3% Chrysotile Mastic: 5% Chrysotile	
HEWS-T-3A1-21, 3A2-22, 3A3- 23	Pipe Mud Fittings	Pipe Chase, 34C West	Unknown	TSI	Fair	NF	6% Chrysotile	

4

HEWS-T-3B1-24, 3B2-25, 3B3-	Air Cell Pipe	Pipe Chase	Unknown	TSI	Fair	NF	6% Chrysotile
26	Insulation						
HEWS-S-4A1-27, 4A2-28, 4A3-	Textured Drywall	Soffits	N/A	Surfacing	Fair	NF	None Detected
29	(Bumpy)						
HEWS-M-4B1-30, 4B2-31, 4B3-	Taping Compound	Soffits	N/A	Misc.	Fair	NF	None Detected
32							
HEWS-S-4C1-33, 4C2-34, 4C3-	Plaster	Throughout	N/A	Surfacing	Fair	NF	None Detected
35, 4C4-36, 4C5-37, 4C6-38,							
4C7-39							
HEWS-M-5A1-40, 5A2-41, 5A3-	1x1 PEG Ceiling Tile	Throughout	N/A	Misc.	Fair	NF	None Detected
42							
HEWS-M-8A1-43, 8A2-44, 8A3-	Grey Duct Mastic		N/A	Misc.	Fair	NF	None Detected
45							
	C) (II D) -1. C - free	Classes Standard	N T/A	Min	Dain	NIE	Nana Datastad
HEWS-M-10A1-46, 10A2-47,	CMU Block Surfacer	Lassroom Storage,	N/A	Misc.	Fair	INF	None Detected
10A3-48	Street Seff	Janitor Closet	1 275 8 ~	Sumfacing	Fair	NE	20/ Chrysotile
HEWS-5-10B1-49, 10B2-50,	Stucco Sollit	Exterior	~1,275 Sq. Ft	Surfacing	гап	Nr	578 Chrysothe
1003-51	Window Cloging	Exterior	<u> </u>	Miso	Fair	NE	2% Chrysotilo
HEWS-M-10C1-52, 10C2-55,	window Giazing	Exterior	Windows	IVIISC.	ган	INI'	2 % Chi ysoure
1003-54			8'x26'				
HEWS-M-10D1-55 10D2-56	Door/Window	Exterior	N/A	Misc	Fair	NF	None Detected
10D3-57	Caulking	2					
HEWS-M-10E1-58, 10E2-59,	CMU Surfacer	Exterior	~5,535 Sq.	Misc.	Fair	NF	2% Chrysotile
10E3-60			Ft.				
HEWS-M-9B1-64, 9B2-65, 9B3-	Penetration Tar	Roof	N/A	Misc.	Fair	NF	None Detected
66							
HEWS-M-9C1-67	Roof Core	Roof	N/A	Misc.	Fair	NF	None Detected

Location: Alamogordo, NM (Holloman Air Force Base) Project: Holloman Elementary School (Cafeteria) Inspection Date: June 9th and 23rd, 2021 Prepared For: Alamogordo Public Schools Quantity Material Condition Friable/ **Asbestos Content** Functional Sample # Material **Space Location** Туре Non-Friable Hall, Custodial ~350 Misc. NF 2% Chrysotile HESC-M-1A1-1, 1A2-2, 1A3-3 **Cove Base Mastic** Fair Closet, Cafeteria Linear Ft. (Brown) Fair NF Tile: None Detected HESC-M-2A1-4, 2A2-5, 2A3-6 Painted Vinyl Floor Bar Entry, Girls N/A Misc. Mastic: None Detected Tile/ Mastic Restroom Entry,

		Hall			1		
HESC-M-2B1-7, 2B2-8, 2B3-9	12x12 Patterned (White, Blue, Red) Vinyl Floor Tile/ Yellow Mastic	Cafeteria	N/A	Misc.	Fair	NF	Tile: None Detected Mastic: None Detected
HESC-M-2C1-10, 2C2-11, 2C3- 12	Green Epoxy Coating	Kitchen, Kitchen Restroom, Kitchen Lockers, Kitchen Laundry Room, Kitchen Restroom, Cafeteria North Storage, Kitchen Office, Kitchen Dry Storage	N/A	Misc.	Fair	NF	None Detected
HESC-T-3A1-13, 3A2-14, 2A3- 15	Pipe Mud Fittings	Cafeteria	Unknown	TSI	Fair	NF	7% Chrysotile
HESC-S-4A1-16, 4A2-17, 4A3- 18	Textured Drywall A (Drag Down)	Walls-Janitor's Closet Ceilings-Dry Storage, Kitchen Office, Gym North Storage, Janitors Closet	N/A	Surfacing	Fair	NF	None Detected
HESC-M-4B1-19, 4B2-20, 4B3- 21	Taping Compound A	Walls-Janitor's Closet Ceilings-Dry Storage, Kitchen Office, Gym North Storage, Janitors Closet	~525 Sq. Ft.	Misc.	Fair	NF	2% Chrysotile
HESC-S-4C1-22, 4C2-23, 4C3- 24	Textured Drywall B (Blotchy)	Café Storage (Ceiling)	N/A	Surfacing	Fair	NF	None Detected
HESC-S-4D1-25, 4D2-26, 4D3- 27	Plaster	Boy's Restroom, Girl's Restroom, Kitchen Lockers, Kitchen Restroom, Kitchen Laundry, Kitchen Office	N/A	Misc.	Fair	NF	None Detected
HESC-M-5A1-28, 5A2-29, 5A3- 30	2x4 Lay in Ceiling Tile A (Gypsum)	Hall, Boy's Restroom, Boy's Restroom Entry,	N/A	Misc.	Fair	NF	None Detected

		Girl's Restroom, Girl's Restroom Entry, Kitchen (Throughout)					
HESC-M-5B1-31, 5B2-32, 5B3- 33	1x1 PEG Pattern Ceiling Tile (Stapled)	Above Lay in Ceiling Tile in Kitchen	N/A	Misc.	Fair	NF	None Detected
HESC-M-10A1-34, 10A2-35, 10A3-36	CMU Block Surfacer	Interior	~9,060 sq. Ft.	Misc.	Fair	NF	3% Chrysotile
HESC-M-10B1-37, 10B2-38, 10B3-39	CMU Block Surfacer	Exterior	~6,000 Sq. Ft.	Misc.	Fair	NF	2% Chrysotile
HESC-M-10C1-40, 10C2-41, 10C3-42	Window Glazing	Exterior	Unknown	Misc.	Fair	NF	2% Chrysotile
HESC-M-10D1-43, 10D2-44, 10D3-45	Door/Window Caulking	Exterior	~8 Doors Windows Unknown	Misc.	Fair	NF	2-3% Chrysotile
HESC-S-10E1-46, 10E2-47, 10E3-48	Stucco Soffit	Entrance	N/A	Misc.	Fair	NF	None Detected
HESC-M-10F1-49, 10F2-50, 10F3-51	Pipe Penetration Fill	Mechanical Room	N/A	Misc.	Fair	NF	None Detected
HESC-M-9A1-52, 9A2-53, 9A3- 54	Duct Tar/ Silver Paint	Roof Duct	~2 Ducts	Misc.	Fair	NF	5-10% Chrysotile
HESC-M-9B1-55, 9B2-56, 9B3- 97	Penetration Tar	Roof	~40 Penetrations	Misc.	Fair	NF	5% Chrysotile
HESC-M-9C1-58, 9C2-59	Roof Core	Roof	N/A	Misc.	Fair	NF	None Detected

Project: Holloman Elementary School (East Wing) Location: Alamogordo, NM (Holloman Air Force Base) Inspection Date: June 9th and 23rd, 2021 Prepared For: Alamogordo Public Schools Quantity Sample # Material Functional Material Condition Friable/ **Asbestos Content Space Location** Type **Non-Friable** HESE-M-1A1-1, 1A2-2, 1A3-3 Cove Base Mastic Throughout Misc. NF None Detected N/A Fair HESE-M-1B1-4, 1B2-5, 1B3-6 Carpet Mastic 31, 31C, 28, 28C, N/A Misc. Fair NF None Detected 26, 29, 27, 24, 25, Lounge, Lounge

7

		Closet, Computer Lab, Book Room, Office 1, Office 2, Blue Room, Big Room					
HESE-M-1C1-7, 1C2-8, 1C3-9	1x1 PEG Pattern Ceiling Tile Mastic (Brown)	East Classroom Wing, Lounge	N/A	Misc.	Fair	NF	None Detected
HESE-M-2A1-10, 2A2-11	9x9 Green Streaked Vinyl Floor Tile/ Black Mastic	Janitors Closet	~50 Sq. Ft.	Misc.	Fair	NF	Tile: 6% Chrysotile Mastic: 3% Chrysotile
HESE-M-2B1-12, 2B2-13, 2B3- 14	9x9 Beige Spackled Vinyl Floor Tile/ Black Mastic	Office Under Carpet-24, 25, 27	~2,055 Sq. Ft.	Misc.	Fair	NF	Tile: 6% Chrysotile Mastic: 5% Chrysotile
HESE-M-2C1-15, 2C2-16, 2C3- 17	12x12 White with Blue Streaks Vinyl Floor Tile	Hali 2	N/A	Misc.	Fair	NF	Tile: None Detected Mastic: None Detected
HESE-M-2D1-18, 2D2-19, 2D3- 20	12x12 Cream with Brown Streaks Vinyl Floor Tile/ Black Mastic	Hall 3, Hall 4	~475 Sq. Ft.	Misc.	Fair	NF	Tile: 3% Chrysotile Mastic: 5% Chrysotile
HESE-T-3A1-21, 3A2-22, 3A3- 23	Pipe Mud Fittings	Workroom	N/A	TSI	Fair	NF	None Detected
HESE-S-4A1-24, 4A2-25, 4A3- 26	Textured Drywall A (Bumpy)	28 Restroom, Lounge, Lounge Restroom	N/A	Surfacing	Fair	NF	None Detected
HESE-M-4B1-27, 4B2-28, 4B3- 29	Taping Compound A	28 Restroom, Lounge, Lounge Restroom	N/A	Misc.	Fair	NF	None Detected
HESE-S-4C1-30, 4C2-31, 4C3- 32	Textured Drywall B (Orange Peel)	Hall 2	N/A	Surfacing	Fair	NF	None Detected
HESE-M-4D1-33, 4D2-34, 4D3- 35	Taping Compound B	Hall 2	N/A	Misc.	Fair	NF	None Detected
HESE-S-4E1-36, 4E2-37, 4E3- 38, 4E4-39, 4E5-40	Textured Drywall C (Light)	New Addition	N/A	Surfacing	Fair	NF	None Detected
HESE-S-4G1-41, 4G2-42, 4G3- 43, 4G4-44, 4G5-45, 4G6-46, 4G7-47	Plaster	Original Building	N/A	Surfacing	Fair	NF	None Detected
HESE-M-5A1-48, 5A2-49, 5A3-	1x1 PEG Pattern	Above Lay in	N/A	Misc.	Fair	NF	None Detected

50	Cailing Tile	Ceiling Tile					
50	Centing The	(Original Building)					
HESE-M-5B1-51, 5B2-52, 5B3-	2x2 Lay in Ceiling	31, 28, 26, 29,	N/A	Misc.	Fair	NF	None Detected
53	Tile (Divot)	Boy's Restroom,					
		Girl's Restroom,					
		27, 24, 25, Hall 1,					
		Lounge, Hall 2					
HESE-M-5C1-54, 5C2-55, 5C3-	2x4 Lay in Ceiling	New Addition	N/A	Misc.	Fair	NF	None Detected
56	Tile (Squiggly)						
HESE-M-9A1-57	Roof Core	Roof	N/A	Misc.	Fair	NF	None Detected
HESE-M-9B1-58	Roof Core	New Addition Roof	N/A	Misc.	Fair	NF	None Detected
HESE-M-9C1-59, 9C2-60, 9C3-	Penetration Tar	Root	N/A	Misc.	Fair	NF	None detected
01 HESE M 0D1-62 0D2-63 9D3-	Duct Mastic/Silver	Roof	N/A	Misc	Fair	NF	None Detected
64	Roof Paint	1001	11/21	11130.	1 un		
HESE-M10A1-65, 10A2-66,	Sink Undercoat	24, 25, 26, 27, 28,	N/A	Misc.	Fair	NF	None Detected
10A3-67	(Black)	29, 31					
HESE-M-10B1-68, 10B2-69,	CMU Block	Addition	N/A	Misc.	Fair	NF	None Detected
10B3-70	(Interior)						
HESE-M-10C1-71, 10C2-72,	CMU Block	Addition	N/A	Misc.	Fair	NF	None Detected
10C3-73	(Exterior)						
HESE-M-10D1-74, 10D2-75,	Window/Door	Exterior-Original	~6 Doors	Mise.	Fair	NF	3% Chrysotile
10D3-76	Caulking	Building	~/ Windows				
			8'x26'				
HESE-M-10E1-77 10E2-78	Window Glazing	Original Building	N/A	Misc.	Fair	NF	None Detected
10E3-79	frinden Glasing	Exterior			1 444		
HESE-M-10F1-80, 10F2-81,	CMU Block	Original Building-	~6,480 Sq.	Misc.	Fair	NF	2% Chrysotile
10F3-81		Exterior	<u>Ft.</u>				· .
HESE-S-10G1-83, 10G2-84,	Stucco Soffit	East Entrance	N/A	Surfacing	Fair	NF	None Detected
10G3-85							
HESE-M-10H1-86, 10H2-87,	CMU Block	Original Building-	N/A	Misc.	Fair	NF	None Detected
10H3-88		Janitor's Closet,					
TTESE M 1011 90 1013 00	Transita Door Danal	Hell 1	~? Panale	Mise	Fair	NF	1% Chrysotila
nese-m-1011-09, 1012-90	Transite Door Faller		2'x2'	141150.	r an	INF	4 /0 Chrysothe
HESE-M-10J1-91	Transite Soffit	Exterior	~1,925 Sq.	Misc.	Fair	NF	15% Chrysotile
	1		Ft.				

APPENDIX C

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Havona Environmental P.O.Box 35848 Albuguergue, NM 87176
 Attn: Cissy Puma

 Customer Project:
 Holloman Elementary School (Main Building)

 Reference #:
 CBR21063359
 Date:
 6/17/2021

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: Holloman Elementary School (Main Bu		Main Building)	CA Labs Project #: CBR21063359	
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
HESM-M- 2A1-16	16-1	Tan Floor Tile	5% Chrysotile	Tan Floor Tile Black Mastic
v	16-2	Black Mastic	5% Chrysotile	Green Floor Tile Brown Floor Tile Black and Yellow Mastic
HESM-M- 2A2-17	17-1	Tan Floor Tile	5% Chrysotile	White Plaster White Surfaced Tan Insulation Tan Sealant
	17-2	Black Mastic	5% Chrysotile	_
HESM-M- 2A3-18	18-1	Tan Floor Tile	5% Chrysotile	_
	18-2	Black Mastic	5% Chrysotile	
HESM-M- 2B1-19	19-2	Green Floor Tile	5% Chrysotile	_
	19-3	Black Mastic	5% Chrysotile	

Giossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate pe - perlite fg - fiberglass pa - palygorskite (clay) gypsum - gypsum qu - quartz mw - mineral wool bí - binder wo - wollastinite or - organic ta - talc ma - matrix sy - synthetic ce - cellulose mi - mica ve - vermiculite br - brucite ot - other ka - kaolin (clay)

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (Main Building)	CA Labs Project #:	CBR21063359	
Sample # Layer #		Analysts Physical Description of Asbestos type / calibrated visual estimate percent		List of Affected Building Material Types		
HESM-M-			50/ Ohmer stills			
2B2-20	20-2	Green Floor Tile	5% Chrysotile	-		
HESM-M- 2B3-21	21-2	Green Floor Tile	5% Chrvsotile			
				-		
	21-3	Black Mastic	5% Chrysotile	_		
HESM-M-						
2C1-22	22-1	Brown Floor Tile	3% Chrysotile	_		
	22-2	Black Mastic	5% Chrysotile	_		
HESM-M-						
2C2-23	23-1	Brown Floor Tile	3% Chrysotile	_		
	23-2	Black Mastic	5% Chrysotile	_		
HESM-M-	20.2	Plack and Vallow Mastic	3% Chrysotila			

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix mi - mica	pe - perlite qu - quartz	fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic ce - cellulose	pa - palygorskite (clay)
ma - matrix		sy - synthetic	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project	ct:	Holloman Elementary School (N	Main Building)	CA Labs Project #:	CBR21063359	
Sample #	Sample # Layer Analysts Physical Description of Asbes # Subsample calibra estimation		Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types		
HESM-M- 2E2-30	30-2	Black and Yellow Mastic	3% Chrysotile	_		
HESM-S- 4E4-51	51-1	White Plaster	2% Chrysotile	_		
HESM-S- 6A1-67	67-1	White Surfaced Tan Insulation	8% Chrysotile	_		
HESM-S- 6A2-68	68-1	White Surfaced Tan Insulation	8% Chrysotile			
HESM-S- 6A3-69	69-1	White Surfaced Tan Insulation	8% Chrysotile			
HESM-S- 6A4-70	70-1	White Surfaced Tan Insulation	8% Chrysotile	_		
HESM-S- 6A5-71	71-1	White Surfaced Tan Insulation	8% Chrysotile	_		
HESM-M- 10E2-96	96-2	Tan Sealant	4% Chrysotile			

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate pe - perlite gypsum - gypsum qu - quartz bi - binder or - organic ma - matrix mi - mica ve - vermiculite ot - other	fg - fiberglass mw - mineral wool wo - wollastinite ta - taic sy - synthetic ce - cellulose br - brucite ka - kaolin (clay)	pa - pałygorskite (clay)
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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (M	lain Building)	CA Labs Project #:	CBR21063359
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affe Materi	cted Building al Types

HESM-M-	07.4	Tex Oralist	10/ Ohmerstille
10E3-97	97-1	Tan Sealant	4% Chrysollie
HESM-S-		Tan and Blue Surfaced Gray	
10F1-98	98-1	Plaster	3% Chrysotile
HESM-S-		Tan and Blue Surfaced Gray	
10F2-99	99-1	Plaster	3% Chrysotile
HESM-S-		Tan and Blue Surfaced Grav	
10F3-100	100-1	Plaster	3% Chrysotile
	101 1	Tan Surfaced Gray Transite	15% Chrysotilo
1001-101	101-1	Tan Sunaceu Gray Transite	15 % CinySolile
HESM-M-			
10G2-102	102-1	Tan Surfaced Gray Transite	15% Chrysotile
HESM-M-			
10G3-103	103-1	Tan Surfaced Gray Transite	15% Chrysotile
		And and a second se	
1064-104	104-1	Brown Surfaced Grav Transite	15% Chrysotile
1004-104	704-1	brown burlaced dray manshe	1070 Unysoule

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

pe - perlite	fg - fiberglass
gu - guartz	mw - mineral wool
	wo - wollastinite
	ta - talc
	sy - synthetic
	ce - cellulose
	br - brucite
	ka - kaolin (clay)
	pe - perlite qu - quartz

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pa - palygorskite (clay)

CA Labs CA Labs

Dedicated to Quality CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (Mai	n Building)	CA Labs Project #:	CBR21063359
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affeo Materia	cted Building al Types

HESM-M-

10H1-105 105-1 Green Surfaced Gray Transite 15% Chrysotile HESM-M-

10H2-106 106-1 Gray Transite 15% Chrysotile

HESM-M-10H3-107 107-1 Green Surfaced Gray Transite 15% Chrysotile

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate pe - perlite fg - fiberglass gypsum - gypsum qu - quartz mw - mineral wool bi - binder wo - wollastinite or - organic ta - talo sy - synthetic ce - cellulose ma - matrix mi - mica br - brucite ve - vermiculite ka - kaolin (clay) ot - other

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

pa - palygorskite (clay)

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer	Info:	Attn	: Cissy Puma	Custom	er Project:	CA Labs Project #:	
<i>Havona Environmental</i> P.O.Box 35848		Holloman Elementary School (Main Building)		CBR21063359			
Albuquerqu	e, NM	87176				Date:	6/17/2021
				Turnaro	und Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	232-95	33			Date Of Sampling:	6/9/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-M-			Vallau Mastia	V	None Detected		100% au bi
1A1-1		1-1	Yellow Mastic	Ŷ	None Delected		100% qu, bi
HESM-M- 1A2-2		2-1	Brown Mastic	Ŷ	None Detected	ţ	100% qu, bi
HESM-M- 1A3-3		3-1	Brown Mastic	Ŷ	None Detected		100% qu, bi
HESM-M- 1B1-4		4-1	Tan Carpeting	Ŷ	None Detected	80% sy	20% qu, ma
		4-2	Yellow Mastic	Y	None Detected		100% qu, bi
HESM-M- 1B2-5		5-1	Yellow Mastic	Ŷ	None Detected		100% qu, bi
HESM-M- 1B3-6		6- <u>1</u>	Yellow Mastic	Y	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermiculite
bl - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quartz

te tz

fg - fiberglass ce - cellulose mw - mineral wool wo - wollastinite ta - talc sy - synthetic

br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris William Laboratory Director

Chris Williams

Sicher Dinterto Sidney Pinkerton

Analyst

Fire Damage significant fiber damage - reported percentages reflect unalitiered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite
 Layer not analyzed - attached to previous positive layer and contamination is suspected

5. Not enough sample to analyze

Senior Analyst Alicia Stretz

6. Anthophylite in association with Fibrous Tatc
 7. Contamination suspected from other building materials
 8. Favorable scenario for water separation on vermicuitte for possible analysis by another method
 9. < 1% Result point counted positive
 10. TEM analysis suggested

Page 7 of 29

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NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer	Info:	Attn	: Cissy Puma	Custo	mer Project:	CA Labs Project #:	
Havona E	nviror 848	nment	al	Hollon (Main	nan Elementary S Building)	School CBR21063359	
Albuquerqu	e, NM	87176				Date:	6/17/2021
Phone #	505-2	32-95	33	Turna	round Time: 3 d	ay Samples Received: Date Of Sampling:	6/14/2021 6/9/2021
Fax #	505-2	256-82	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description Subsample	n of Hom gene us (Y/N	 Asbestos type calibrated visu estimate perce 	/ Non-asbestos fiber al , type / percent ent	Non-fibrous type / percent
HESM-M- 1C1-7		7-1	Brown Mastic	Ŷ	None Detected	d	100% qu, bi
HESM-M- 1C2-8		8-1	Brown Mastic	Ŷ	None Detected	d	100% qu, bi
HESM-M- 1C3-9		9-1	Brown Mastic	Ŷ	None Detected	d	100% qu, bi
HESM-M- 1D1-10		10-1	Brown Mastic	Ŷ	None Detected	d	100% qu, bi
HESM-M- 1D2-11		11-1	Brown Mastic	Ŷ	None Detected	d	100% qu, bi
HESM-M- 1D3-12		12-1	Brown Mastic	Ŷ	None Detected	d	100% qu, bi
HESM-M- 1E1-13		13-1	White Surfacing	Y	None Detected	d	100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method. fg - fiberglass

mw - mineral wool wo - wollastinite

ta - talc

sy - synthetic

a - carbonate	mi - mica
ypsum - gypsum	ve - vermiculite
oi - binder	ot -other
or - organic	pe - perlite
na - matrix	qu - quartz

ite rtz

Sidney Pintorto

Sidney Pinkerton

Analyst

 Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite
 Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

.

6. Anthophyllite in association with Fibrous Talc
 7. Contamination suspected from other building materials
 8. Favorable scenario for water separation on vermiculite for possible analysis by another method
 9. < 1% Result point counted positive
 10. TEM analysis suggested

ce - cellulose

ka - kaolin (clay)

pa - palygorskite (clay)

Approved Signatories:

Senior Analyst

Alicia Stretz

Chris Willing

Laboratory Director

Chris Williams

br - brucite

CA Labs, L.L.C.

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848 Albuquerque, NM 87176 Phone # 505-232-9533 For # 505/256-8227		Attn:	Attn: Cissy Puma		er Project:	CA Labs Project #:	
		Holloman Elementary School (Main Building)		CBR21063359			
				Date:	6/17/2021		
		Turnaround Time: 3 day		Samples Received: Date Of Sampling:	6/14/2021 6/9/2021		
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		13-2	Brown Ceiling Tile	Y	None Detected	100% ce	
# ************************************		13-3	Brown Mastic	Y	None Detected		100% qu, bi
HESM-M- 1E2-14		14-1	White Surfacing	Y	None Detected		100% qu, bi
		14-2	Brown Ceiling Tile	Ŷ	None Detected	100% ce	
		14-3	Brown Mastic	Y	None Detected		100% qu, bi
HESM-M- 1E3-15		15-1	Brown Mastic	Ŷ	None Detected		100% qu, bi
HESM-M- 2A1-16		16-1	Tan Floor Tile	Y	5% Chrysotile		95% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

sy - synthetic

ca - carbonate mi - mica gypsum - gypsum bi - binder or - organic ma - matrix

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

ve - vermiculite ot -other pe - perlite qu - quartz

Sidney Pinkato Sidney Pinkerton

Analyst

fg - fiberglass ce - cellulose mw - mineral wool wo - wollastinite ta - talc

br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris White

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Revorable scenario for water separation on vermiculite for possible analysis by another method
 S. < 1% Result point counted positive

10. TEM analysis suggested

2. Fire Damage no significant liber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Dedicated to Quality

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848 Albuquerque, NM 87176		Customer Project: Holloman Elementary School (Main Building)		CA Labs Project #:			
				CBR21063359			
				Date:	6/17/2021		
			Turnaro	ound Time: 3 day	Samples Received:	6/14/2021	
Phone #	505-2	32-95	33			Date Of Sampling:	6/9/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com	Layer	Analysts Physical Description of	Homo-	Asbestos type /	Non-asbestos fiber	Non-fibrous type
	ment	#	Subsample	geneo	calibrated visual	type / percent	/ percent
				US (V/NI)	estimate percent		
				(1/18)			
		16-2	Black Mastic	Y	5% Chrysotile		95% qu, bi
HESM-M-				V	EQ/ Observe atile		050/
2A2-17		17-1	Tan Floor Tile	Ŷ	5% Chrysotile		95% qu, ma, ca
		17-2	Black Mastic	Y	5% Chrysotile		95% au. bi
HESM-M-							
2A3-18		18-1	Tan Floor Tile	<u>Y</u>	5% Chrysotile		95% qu, ma, ca
				V	50/ Ohmen 11/-		050/
		18-2	BIACK MASTIC	Ŷ	5% Chrysotile		95% qu, bi
2R1-19		19-1	Yellow Mastic	Y	None Detected		100% au bi
		101					10070 qu, bi
		19-2	Green Floor Tile	V	5% Chrysotile		95% au ma ca
		15-2			o /o om yound		0070 qu, ma, oa
			Analysis Method: Interim (40CFR Part	763 Appendix	E to Subpart E) / Improved (EPA-	600 / R-93/116)	
		Preparatio	on Method: HCL acid washing for carbonate base identification of asbestos	d samples, ch types by dispr	emical reduction for organically be arsion attaining / becke line metho	ound components, oil immersion fo	r

fg - fiberglass

mw - mineral wool

wo - wollastinite

sy - synthetic

ta - talc

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermiculite
bi - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quartz

Sidney Pinto As

Sidney Pinkerton

Analyst

Fire Damage significant liber damage - reported percentages reflect unaltered libers
 Fire Damage no significant liber damages effecting librous percentages
 Actinolite in association with Vermiculite
 Layer not analyzed - attached to previous positive layer and contamination is suspected

5. Not enough sample to analyze

Chris Will

Approved Signatories:

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

ce - cellulose

pa - palygorskite (clay)

br - brucite ka - kaolin (clay)

Anthophylite in association with Fibrous Talc
 Contamination suspected from other building materials
 Ravorable scenario for water separation on vermiculite for possible analysis by another method
 S. - 1% Result point counted positive
 To TEM analysis suggested
Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma		Custom	er Project:	CA Labs Project #:			
Havona Environmental		Holloma (Main Bi	In Elementary School	CBR21063359			
P.O.BOX 30	0848	07176		(Main Di	unung)	Data	6/17/0001
Albuquerqu		57170		T	und Times Orden	Date:	6/17/2021
				Turnard	bund Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/9/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		19-3	Black Mastic	Ŷ	5% Chrysotile		95% qu, bi
HESM-M-							
2B2-20		20-1	Yellow Mastic	Y	None Detected	·····	100% gu, bi
		20-2	Green Floor Tile	Ŷ	5% Chrysotile		95% qu, ma, ca
			<u></u>				
	5	20-3	Black Mastic	Y			
HESM-M- 2B3-21		21-1	Yellow Mastic	Ŷ	None Detected		100% qu, bi
		21-2	Green Floor Tile	Ŷ	5% Chrysotile		95% qu, ma, ca
		21-3	Black Mastic	Ŷ	5% Chrysotile		95% qu, bi

on for org shing for carbonate ba al redu Preparation Method: HCL acid wa ally b identification of asbestos types by dispersion attaining / becke line method.

fg - fiberglass

sy - synthetic

ta - talc

mw - mineral wool

wo - wollastinite

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermiculite
oi - binder	ot -other
or - organic	pe - perlite
na - matrix	qu - quartz

Sidney Rinterto

Sidney Pinkerton

Analyst

 Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite
 Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

ce - cellulose

ka - kaolin (clay)

pa - palygorskite (clay)

br - brucite

Anthophylite in association with Fibrous Talc
 Contamination suspected from other building materials
 Revorable scenario for water separation on vermiculite for possible analysis by another method
 S. - 1% Result point counted positive
 To. TEM analysis suggested

Senior Analyst

Alicia Stretz

Approved Signatories:

Chris Will

Laboratory Director

Chris Williams

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		Customer Project: Holloman Elementary School (Main Building)		CA Labs Project #: CBR21063359			
Albuquerqu	e, NM 8	87176				Date:	6/17/2021
				Turnard	ound Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/9/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-M-		<u> </u>	D	V			070/
201-22		22-1	Brown Floor Tile	<u> </u>	3% Chrysotile		97% qu, ma, ca
		22-2	Black Mastic	Y	5% Chrysotile		95% qu, bi
HESM-M- 2C2-23		23-1	Brown Floor Tile	Y	3% Chrysotile		97% qu, ma, ca
V-1/2		23-2	Black Mastic	Y	5% Chrysotile		95% qu, bi
HESM-M- 2D1-24		24-1	Tan Floor Tile	Y	None Detected		100% qu, ca
HESM-M- 2D2-25		25-1	Tan Floor Tile	Y	None Detected		100% qu, ca
		25-2	Yellow Mastic	Y	None Detected		100% qu, bi
			Analysis Method: Interim (40CFR Part	763 Appendix	E to Subpart E) / Improved (EPA-t	600 / R-93/116)	

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

identification of asbestos types by dispersion attaining / becke line method. fg - fiberglass mi - mica ce - cellulose mw - mineral wool

wo - wollastinite

sy - synthetic

ta - talc

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

ot -other pe - perlite qu - quartz

ve - vermiculite

Sidney Pintorto

Sidney Pinkerton

Analyst

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Chris Willing Laboratory Director

Chris Williams

Approved Signatories:

Senior Analyst Alicia Stretz

br - brucite

ka - kaolin (clay)

pa - palygorskite (clay)

6. Anthophyllite in association with Fibrous Talc
 7. Contamination suspected from other building materials
 8. Favorable scenario for water separation on vermiculite for possible analysis by another method
 9. < 1% Result point counted opsitive
 10. TEM analysis suggested

CA Labs, L.L.C.

Dedicated to Quality

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental			Custor	ner Project:	CA Labs Project #:		
			Holloma	an Elementary School	CBR21063359		
P.O.Box 35848		(Main B	uilding)				
Albuquerque, NM 87176					Date:	6/17/2021	
				Turnard	ound Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/9/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com	Layer	Analysts Physical Description of	Homo-	Asbestos type /	Non-asbestos fiber	Non-fibrous type
	ment	#	Subsample	geneo	calibrated visual	type / percent	/ percent
				us	estimate percent		
				(Y/N)			
HESM-M-				.,			
2D3-26		26-1	Tan Floor Tile	Ŷ	None Detected		100% qu, ca
		26-2	Yellow Mastic	Y	None Detected		100% qu, bi
			0.000000000000000000000000000000000000				
HESM-M-							
2F1-27		27-1	White Self-Adhesive Floor Tile	Y	None Detected		100% qu, ma, bi
HESM-M-		00.4	White Calf Adhesive Floor Tile	V	None Detected		1000/ au ma hi
252-28		28-1	White Self-Adhesive Floor The	/	None Delected	·····	100% qu, ma, bi
HESM-M-							
2E1-29		29-1	White Floor Tile	Y	None Detected		100% qu, ca
		00.0	Plack and Vallow Maatia	N/	2º/ Chrycotilo		07% au bi
		29-2	Black and Yellow Mastic	IN	5% Chrysolne		97% qu, bi
HESM-M-							
2E2-30		30-1	White Floor Tile	Y	None Detected		100% qu, ca
		-					

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method. fg - fiberglass

mw - mineral wool

wo - wollastinite

sy - synthetic

ta - talc

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermiculite
bi - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quartz

Sicher Rinkerto

Sidney Pinkerton

Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

2. Fire Damage on significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected

5. Not enough sample to analyze

Senior Analyst Alicia Stretz

Chris White Laboratory Director Chris Williams

Approved Signatories:

6. Anthophyllite in association with Fibrous Talc

ce - cellulose

ka - kaolin (clay) pa - palygorskite (clay)

br - brucite

Antiophylitte in association with Fibrous Tatc
 Contamination suspected from other building matterials
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 <1% Result point counted positive
 TEM analysis suggested

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O. Box 35848		Customer Project:		CA Labs Project #:			
		Holloma (Main Bi	n Elementary School uilding)	CBR21063359			
Albuquerqu	e, NM	87176				Date:	6/17/2021
Phone #	505-2	32-953	33	Turnard	ound Time: 3 day	Samples Received: Date Of Sampling:	6/14/2021 6/9/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		30-2	Black and Yellow Mastic	N	3% Chrysotile		97% qu, bi
3A1-31		31-1	Tan Insulation	Y	None Detected	5% fg	95% qu, ma, ca
HESM-T- 3A2-32		32-1	Tan Woven Wrap	Ŷ	None Detected	100% ce	
		32-2	Tan Insulation	Y	None Detected	5% fg	95% qu, ma, ca
HESM-T- 3A3-33		.3.3-1	Tan Insulation	Y	None Detected	5% fa	95% gu, ma, ca
0/10/00		001			1010 2000102		0070 qu, mu, ou
HESM-S- 4A1-34		34-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		34-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermic
bi - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quartz

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

2. Fire Damage no significant fiber damages effecting fibrous percentages 3. Actinolite in association with Vermiculite

Sichney Pintorto

Sidney Pinkerton

Analyst

fg - fiberglass ve - vermiculite mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Will

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 A Favorable scenario for veter separation on vermiculte for possible analysis by another method

 A scenario for weter separation on vermiculte for possible analysis by another method

 A scenario for weter separation on vermiculte for possible analysis by another method

 A scenario for weter separation on vermiculte for possible analysis by another method

 A scenario for weter separation on vermiculte for possible analysis by another method

 A scenario for the scenario for the

10. TEM analysis suggested

4. Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

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Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn		Attn	Attn: Cissy Puma		er Project:	CA Labs Project #:	
Havona Environmental P.O.Box 35848		Holloma (Main Bu	n Elementary School uilding)	CBR21063359			
Albuquerqu	ie, NM	87176				Date:	6/17/2021
Phone #	505-2	32-95	33	Turnaro	und Time: 3 day	Samples Received: Date Of Sampling:	6/14/2021 6/9/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-S- 4A2-35		35-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi. ca
			<u></u>		, Malan, Lang Lang	······································	
•. 		35-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESM-S- 4A3-36		36-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
			an a				
		36-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESM-S- 4A4-37		37-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		37-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESM-S- 4A5-38		38-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method. fa - fiberalass

mw - mineral wool

wo - wollastinite

sy - synthetic

ta - talc

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermiculite
bi - binder	ot -other
or - organic	pe - perlite
ma - matrix	gu - guartz

Sidney Pinto As

Sidney Pinkerton

Analyst

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Senior Analyst

Chris Will Laboratory Director

Chris Williams

Approved Signatories:

Alicia Stretz

ce - cellulose

ka - kaolin (clay)

pa - palygorskite (clay)

br - brucite

6. Anthophyllite in association with Fibrous Talc
 7. Contamination suspected from other building materials
 8. Favorable scenario for water separation on vermiculite for possible analysis by another mothod
 9. < 1% Result point counted positive
 10. TEM analysis suggested

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma		Customer Project:		CA Labs Project #:			
Havona Environmental P.O.Box 35848		Holloma (Main Bı	n Elementary School uilding)	CBR21063359			
Albuquerqu	e, NM	87176				Date:	6/17/2021
				Turnaro	und Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	232-953	33			Date Of Sampling:	6/9/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		38-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESM-M- 4B1-39		39-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
HESM-M- 4B2-40		40-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
HESM-M- 4B3-41		41-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
HESM-S- 4C1-42		42-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		42-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESM-S- 4C2-43		43-1	Blue Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermiculite
bi - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quartz

Sidney Pintorto

Sidney Pinkerton

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Will

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 A Favorable scenario for water separation on vermiculite for possible analysis by another method

 V
 <1% Result point counted positive</td>

10. TEM analysis suggested

 Actinolite In association with Vermiculite
 Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers 2. Fire Damage no significant fiber damages effecting fibrous percentages

Page 16 of 29

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NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		Customer Project: Holloman Elementary School (Main Building)		CA Labs Project #: CBR21063359			
Albuquerqu	e, NM	87176				Date:	6/17/2021
Phone # Fax #	505-2 505-2	232-953	33 37	Turnaro	u nd Time: 3 day	Samples Received: Date Of Sampling: Purchase Order #:	6/14/2021 6/9/2021
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
					· · · · · · · · · · · · · · · · · · ·		
		43-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESM-S- 4C3-44		44-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		44-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESM-M- 4D1-45		45-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
HESM-M- 4D2-46		46-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
HESM-M- 4D3-47		47-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
HESM-S- 4E1-48		48-1	Pink Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica
ovosum - avosum	ve - vermic
bi - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quartz

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers 2. Fire Damage no significant fiber damages effecting fibrous percentages 3. Actinolite in association with Vermiculite

Sidney Pinto As

Sidney Pinkerton

Analyst

fg - fiberglass - vermiculite mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Willis

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 < 1% Result point counted positive

10. TEM analysis suggested

A Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Page 17 of 29

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		Customer Project:		CA Labs Project #:			
		Holloma (Main Bı	n Elementary School uilding)	CBR21063359			
Albuquerqu	e, NM 8	87176				Date:	6/17/2021
				Turnaro	und Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	232-953	33			Date Of Sampling:	6/9/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-S- 4E2-49		49-1	White Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
HESM-S- 4E3-50		50-1	Tan Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
HESM-S- 4E4-51		51-1	White Plaster	Ý	2% Chrysotile		98% qu, ma, ca
HESM-S- 4E5-52		52-1	White Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
HESM-S- 4E6-53		53-1	Tan Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
HESM-S- 4E7-54		54-1	White Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
HESM-M- 5A1-55		55-1	White Surfacing	У	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method. fg - fiberglass

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermic
bi - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quartz

Dickney PintorAs

Sidney Pinkerton

Analyst

iculite mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris White

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

4. Layer not analyzed - attached to previous positive layer and contamination is suspected

5. Not enough sample to analyze

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials
 Revorable scenario for water separation on vermiculite for possible analysis by another method
 S. 1% Result point counted positive
 TEM analysis suggested

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

- Loba

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		Customer Project: Holloman Elementary School (Main Building)		CA Labs Project #: CBR21063359			
Albuquerqu	e, NM 87	7176				Date:	6/17/2021
				Turnaro	ound Time: 3 day	Samples Received:	6/14/2021
Phone #	505-23	2-953	33			Date Of Sampling:	6/9/2021
Fax #	505-25	6-823	37			Purchase Order #	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		55-2	Yellow Ceiling Tile	Y	None Detected	100% fg	
HESM-M-							
5A2-56		56-1	White Surfacing	Y	None Detected		100% gu, bi
		56-2	Yellow Ceiling Tile	Ŷ	None Detected	100% fg	
HESM-M- 5A3-57		57-1	White Surfacing	Y	None Detected		100% qu, bi
		57-2	Yellow Ceiling Tile	Y	None Detected	100% fg	
HESM-M-							
5B1-58		58-1	White Surfacing	Y	None Detected		100% qu, bi
.		<u>58-2</u>	Brown Ceiling Tile	Y	None Detected	100% ce	
	Pr	reparatic	Analysis Method: Interim (40CFR Part on Method: HCL acid washing for carbonate base identification of asbestos ca - carbonate mi - mica gypsum - gypsum ve - vermiculite bi - binder ot - other or - organic pe - perilte ma - matrix qu - quartz	763 Appendix Id samples, chi types by dispe fg - fiberglas mw - mineral wo - wollastii ta - taic sy - synthetic	E to Subpart E) / Improved (EPA- emical reduction for organically bo rsion attaining / becke line methor s ce - cellulose wool br - brucite nite ka - kaolin (clay pa - palygorskite	300 / R-93/116) ound components, oil immersion fe d.) e (clay) Appro	or oved Signatories:
			Sidney Pinkerton			Senior Analyst	Laboratory Director
1. Fire Damage signi	ficant fiber dam	ace - ren	Analyst ported percentages reflect unaltered fibers		6. Anthophyllite in association with Fibro	Alicia Stretz	Chris Williams

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinoitie in association with Vermicuite
 A. Layer not analyzed - attached to previous positive layer and contamination is suspected
 S. Not enough sample to analyze

6. Antinophysical association with relations failed
 7. Contamination suspected from other building materials
 8. Favorable scenario for water separation on vermiculite for possible analysis by another method
 9. < 1% Result point counted positive
 10. TEM analysis suggested

Dedicated to Quality

CA Labs. L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		Custom	er Project:	CA Labs Project #:			
		Holloma (Main Bı	In Elementary School uilding)	CBR21063359			
Albuquerqu	e, NM 8	87176				Date:	6/17/2021
Phone #	505-2	232-953	33	Turnaro	ound Time: 3 day	Samples Received: Date Of Sampling:	6/14/2021 6/9/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-M- 5B2-59		59-1	White Surfacing	Ŷ	None Detected		100% qu, bi
<u></u>		59-2	Brown Ceiling Tile	Y	None Detected	100% ce	
HESM-M-		60-1	White Surfacing	Y	None Detected		100% gu bi
505-00		00-1	White our lacing		Hone Deletica		100 /0 40, 01
		60-2	Brown Ceiling Tile	Ŷ	None Detected	100% ce	
HESM-M-		61-1	White Surfacing	Y	None Detected		100% gu bi ca
301-01		01-1	White Burnaeing	· · · · · ·	Hone Deletica	· · · · · · · · · · · · · · · · · · ·	10078 qu, bi, ba
		61-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma
HESM-M- 5C2-62		62-1	White Surfacing	Y	None Detected		100% qu, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method. fg - fiberglass

mw - mineral wool

wo - wollastinite

sy - synthetic

ta - talo

ca - carbonate mi - mica ve - vermiculite gypsum - gypsum bi - binder ot -other or - organic ma - matrix

pe - perlite au - quartz

Sidney Pinto Ao

Sidney Pinkerton

Analyst

Fire Damage significant fiber damage - reported percentages rollect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermicuite
 Layer not analyzed - attached to previous positive layer and contamination is suspected

5. Not enough sample to analyze

ce - celluiose

ka - kaolin (clay)

pa - palygorskite (clay)

br - brucite

10. TEM analysis suggested

Chris Will Senior Analyst

Approved Signatories:

Laboratory Director Chris Williams

Alicia Stretz

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 < 1% Result point counted positive

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O. Box 35848		Custom	er Project:	CA Labs Project #:			
		Holloman Elementary School (Main Building)		CBR21063359			
Albuquerqu	e, NM 8	87176				Date:	6/17/2021
				Turnaro	und Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/9/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		62-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% gu, pe, ma
		02-2			Home Detected	10 /0 00	1070 qu, po, ma
HESM-M-							
5C3-63		63-1	White Surfacing	Y	None Detected		100% qu, bi, ca
						15% fg	
		63-2	Tan Ceiling Tile	Y	None Detected	40% ce	45% qu, pe, ma
HESM-M-							
5D1-64		64-1	White Surfacing	Y	None Detected	· · · · · · · · · · · · · · · · · · ·	100% qu, bi, ca
		64-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% gu, pe, ma
			<u> </u>				
HESM-M-							
5D2-65		65-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		65 Q	Tap Calling Tile	V	None Detected	15% fg	45% au no ma
		65-2		r	None Delected	40 /o CE	45 % qu, pe, ma

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ta - talc

mi - mica
ve - vermiculite
ot -other
pe - perlite
qu - quartz

ot -other pe - perlite u - quartz

Sidney Pintato Sidney Pinkerton

Analyst

fg - fiberglass ce - cellulose mw - mineral wool br - brucite wo - wollastinite ka - kaolin (clay) pa - palygorskite (clay) sy - synthetic

Approved Signatories:

Chris Will

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials
 Revorable scenario for water separation on vermiculite for possible analysis by another method
 S. 1% Result point counted positive
 To. TEM analysis suggested

 Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages offecting fibrous percentages
 Actinotite in association with Vermiculite
 Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental		Custom Holloma (Main Bi	er Project: In Elementary School	CA Labs Project #: CBR21063359			
P.O.Box 350 Albuquerque	348 e. NM 8	87176		(Main D	unung)	Date:	6/17/2021
Phone #	505-2	32-953	33 37	Turnaro	ound Time: 3 day	Samples Received: Date Of Sampling: Purchase Order #:	6/14/2021 6/9/2021
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-M- 5D3-66		66-1	White Surfacing	Ŷ	None Detected		100% qu, bi, ca
		66-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma
HESM-S- 6A1-67		67-1	White Surfaced Tan Insulation	N	8% Chrysotile		92% qu, ve, ma, ca
HESM-S- 6A2-68		68-1	White Surfaced Tan Insulation	N	8% Chrysotile		92% qu, ve, ma, ca
HESM-S- 6A3-69		69-1	White Surfaced Tan Insulation	N	8% Chrysotile		92% qu, ve, ma, ca
HESM-S- 6A4-70		70-1	White Surfaced Tan Insulation	N	8% Chrysotile		92% qu, ve, ma, ca
HESM-S- 6A5-71		71-1	White Surfaced Tan Insulation	N	8% Chrysotile		92% qu, ve, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method. fg - fiberglass

mw - mineral wool

wo - wollastinite

sy - synthetic

ta - taic

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

ve - vermiculite ot -other pe - perlite qu - quartz

mi - mica

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris White Laboratory Director

Chris Williams

Sidney Pintosto Sidney Pinkerton

Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

Fire Damage no significant fiber damages effecting fibrous percentages 3. Actinolite in association with Vermiculite

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Senior Analyst Alicia Stretz

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 < 1% Result point counted positive

10. TEM analysis suggested

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O. Box 35848		Cissy Puma	Customer Project:		CA Labs Project #:		
		Holloma (Main Bı	n Elementary School uilding)	CBR21063359			
Albuquerqu	e, NM	87176				Date:	6/17/2021
Phone #	505-2	922-953	33	Turnaro	ound Time: 3 day	Samples Received:	6/14/2021 6/9/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-M- 8A1-72		72-1	Gray and White Sealant	N	None Detected		100% qu, ma, ca
HESM-M-					N		1000/
8A2-73		73-1	Gray and White Sealant	N	None Detected		100% qu, ma, ca
HESM-M- 8A3-74		74-1	Gray and White Sealant	N	None Detected		100% qu, ma, ca
HESM-M- 9A1-75		75-1	Black Shingle with White Gravel	N	None Detected	20% ce	80% qu, bi
W		75-2	Black Tar and Felt	N	None Detected	30% ce	70% qu, bi
		75-3	Brown Fibrous Insulation	Ŷ	None Detected	100% ce	
HESM-M- 9A2-76		76-1	Black Shingle with White Gravel	N	None Detected	20% ce	80% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermiculite
bi - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quartz

Sidney PintorAs

Sidney Pinkerton

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - taic sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris William

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Favorable scenario for water soparation on vermiculite for possible analysis by another method
 1% Test positip forit counted positive
 TEM analysis suggested

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental		Custom	er Project:	CA Labs Project #:			
		Holloma	n Elementary School	CBR21063359			
			(Mail D	uliuliig)	Data	0/17/0001	
Albuquerqu		6/1/0		-		Date:	6/17/2021
				Turnaro	ound Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	232-95	33			Date Of Sampling:	6/9/2021
Fax #	505-2	56-82	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-tibrous type / percent
<u></u>		76-2	Black Tar and Felt	N	None Detected	30% ce	70% qu, bi
		76-3	Brown Fibrous Insulation	Y	None Detected	100% ce	1
		76-4	White Plaster	Ŷ	None Detected		100% qu, pe, ma, ca
HESM-M- 9B1-77		77-1	Black Tar	Y	None Detected	5% ce	95% qu, bi
HESM-M- 9C1-78		78-1	Black Tar	Ŷ	None Detected	5% ce	95% qu, bi
HESM-M- 9C2-79		79-1	Black Tar	Ŷ	None Detected		100% qu, bi
HESM-M- 9C3-80		80-1	Black Tar	Ŷ	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method. fg - fiberglass

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermic
bi - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quartz

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

2. Fire Damage no significant fiber damages effecting fibrous percentages 3. Actinolite in association with Vermiculite

ve - vermiculite mw - mineral wool wo - wollastinite ta - taic sy - synthetic

Sicher Pinto Ao Sidney Pinkerton

Analyst

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Will

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method

9. < 1% Result point counted positive 10. TEM analysis suggested

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Page 24 of 29

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		Custor Holloma (Main B	ner Project: an Elementary School uilding)	CA Labs Project #: CBR21063359			
Albuquerqu	e, NM 8	87176				Date:	6/17/2021
Phone # 505-232-9533 Fax # 505-256-8237			Turnaro	ound Time: 3 day	Samples Received: Date Of Sampling: Purchase Order #:	6/14/2021 6/9/2021	
Sample #	Com ment	Layer #	Analysts Physical Description o Subsample	f Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-M- 9D1-81		81-1	Gray Sealant	Ŷ	None Detected		100% qu, ma, ca
HESM-M- 9D2-82		82-1	Gray Sealant	Ŷ	None Detected		100% qu, ma, ca
HESM-M- 9D3-83		83-1	Gray Sealant	Ŷ	None Detected		100% qu, ma, ca
HESM-M- 10A1-84		84-1	White Surfacing	Y	None Detected		100% qu, ma, bi, ca
		84-2	Gray CMU	Y	None Detected		100% qu, ma, ca, ot
HESM-M- 10A2-85		85-1	White Surfacing	Y	None Detected		100% qu, ma, bi, ca
		85-2	Gray CMU	Y	None Detected		100% qu, ma, ca, ot

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermiculite
oi - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quartz

Sidney PintorAs Sidney Pinkerton

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Will

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Tale

Aminophysime in association with ribrous rate
 Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 <1% Result point counted positive
 TEM analysis suggested

 Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolitie in association with Vermiculite
 A Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Page 25 of 29

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer I	Info:	Attn:	Cissy Puma	Custom	er Project:	CA Labs Project #:		
Havona E P.O.Box 35	nviror 848	nment	al	Holloma (Main Bı	n Elementary School uilding)	CBR21063359		
Albuquerqu	e, NM 8	87176				Date:	6/17/2021	
				Turnaro	und Time: 3 day	Samples Received:	6/14/2021	
Phone #	505-2	32-953	33			Date Of Sampling:	6/9/2021	
Fax #	505-2	56-823	37			Purchase Order #:		
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent	
HESM-M-							100% qu, ma, bi,	
10A3-86		86-1	White Surfacing	Y	None Detected		ca	
		86-2	Gray CMU	Ŷ	None Detected		100% qu, ma, ca, ot	
HESM-M- 10B1-87		87-1	Gray Debris	N	None Detected		100% qu, ma, ca	
HESM-M- 10B2-88		88-1	White Sealant	Y	None Detected		100% qu, ma, bi	
HESM-M- 10C1-89		<u>89-1</u>	Tan Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca, ot	
HESM-M- 10C2-90		90-1	Tan Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca, ot	
HESM-M- 10C3-91		91-1	Tan Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca, ot	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers 2. Fire Damage no significant fiber damages effecting fibrous percentages

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

Sicher Pinterto Sidney Pinkerton

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris alle

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Tatc 7. Contamination suspected from other building materials

S. Favorable scenario for water separation on vermiculite for possible analysis by another method

 . < 1% Result point counted positive

 10. TEM analysis suggested

3. Actinolite in association with Vermiculite 4. Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		Holloma (Main Bi	er Project: In Elementary School uilding)	CA Labs Project #: CBR21063359			
Albuquerqu	e, NM 87	7176				Date:	6/17/2021
				Turnaro	und Time: 3 day	Samples Received:	6/14/2021
Phone #	505-23	2-953	3			Date Of Sampling:	6/9/2021
Fay #	505-25	6-823	7			Purchase Order #	
Sample #	Com	aver	Analysts Physical Description of	Homo-	Asbestos type /	Non-asbestos fiber	Non-fibrous type
	ment	#	Subsample	geneo us (Y/N)	calibrated visual estimate percent	type / percent	/ percent
HESM-M- 10D1-92		92-1	Tan Surfaced Gray Sealant	N	None Detected		100% qu, ma, bi, ca
HESM-M-		00 d	Ton Quefaced Queue Quelent		News Detected		100% qu, ma, bi,
10D2-93		93-1	Tan Sunaceo Gray Sealant	/N	None Delected		Ca
HESM-M- 10D3-94		94-1	Tan Surfaced Gray Sealant	N	None Detected		100% qu, ma, bi, ca
HESM-M- 10E1-95		95-1_	White Sealant	Ŷ	None Detected		100% qu, ma, ca
HESM-M- 10E2-96		96-1	White Sealant	Ŷ	None Detected		100% qu, ma, ca
		96-2	Tan Sealant	Ŷ	4% Chrysotile		96% qu, ma, ca
HESM-M- 10E3-97		97-1	Tan Sealant	Ŷ	4% Chrysotile		96% qu, ma, ca
	Pr	reparatic	Analysis Method: Interim (40CFR Part In Method: HCL acid washing for carbonate bas- identification of asbestos ca - carbonate mi - mica gypsum ve - vermiculite bi - binder ot - other or - organic pe - perlite ma - matrix qu - quartz	763 Appendix d samples, ch s types by dispe fg - fiberglas mw - minera wo - wollasti ta - talc sy - synthetia	E to Subpart E) / Improved (EPA- emical reduction for organically bi rsion attaining / becke line metho is ce - cellulose I wool br - brucite nite ka - kaolin (clay pa - palygorskit c	600 / R-93/116) ound components, oil immersion fo d. /) e (clay) Appro	or oved Signatories:

Sidney Pinkerton

Analyst

Fire Damage significant fiber damage - reported percentages reliect unattered fibers
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 Actionitie in association with Vermiculite
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Anthophyllite in association with Fibrous Talc
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Senior Analyst

Alicia Stretz

Laboratory Director

Chris Williams

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer I	Customer Info: Attn: Cissy Puma		Custom Holloma	er Project: n Elementary School	CA Labs Project #: CBB21063359		
P.O.Box 35	848	menta	ai	(Main Bu	uilding)	00121000000	
Albuquerqu	e, NM 8	37176				Date:	6/17/2021
				Turnaro	und Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/9/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com	Layer #	Analysts Physical Description of Subsample	Homo-	Asbestos type / calibrated visual	Non-asbestos fiber	Non-tibrous type
	ment	"	oubsample	us	estimate percent	type / percent	/ porocint
			·	(Y/N)			
		-1	Tap and Plus Surfaced Gray				0 ⁷ % gu ma hi
10F1-98		98-1	Plaster	N	3% Chrysotile		97% qu, ma, bi, ca
HESM-S-			Tan and Blue Surfaced Gray				97% qu, ma, bi,
10F2-99		99-1	Plaster	N	3% Chrysotile		са
HESM-S-			Tan and Blue Surfaced Gray				97% qu, ma, bi,
10F3-100		100-1	Plaster	N	3% Chrysotile		са
							050/ min ma hi
10G1-101		101-1	Tan Surfaced Grav Transite	N	15% Chrysotile		85% qu, ma, bi,
1001-101		1011	Tan Canadoa Gray Transito		10 / Only Source		
HESM-M-							85% gu, ma, bi,
10G2-102		102-1	Tan Surfaced Gray Transite	N	15% Chrysotile		са
HESM-M-				• •			85% qu, ma, bi,
10G3-103		103-1	Tan Surfaced Gray Transite	N	15% Chrysotile		са
							050/
HESM-M-		104-1	Brown Surfaced Gray Transite	N	15% Chrysotile		85% qu, ma; bi,
1004-104		104-1	Diowin Sunaceu Gray mansile	14	15 /8 Oll y3000		ua la

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

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Sidney Pintorto Sidney Pinkerton

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sv - svnthetic

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Approved Signatories:

Chris Will

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc 7. Contamination suspected from other building materials

8. Favorable scenario for water separation on vermiculite for possible analysis by another method
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10. TEM analysis suggested

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CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		Custom Holloma (Main Bu	er Project: n Elementary School Jilding)	CA Labs Project #: CBR21063359			
Albuquerque	e, NM 87	7176				Date:	6/17/2021
				Turnaro	und Time: 3 day	Samples Received:	6/14/2021
Phone #	505-23	2-953	3			Date Of Sampling:	6/9/2021
Fax #	505-25	6-823	7			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-M- 10H1-105		105-1	Green Surfaced Gray Transite	N	15% Chrysotile		85% qu, ma, bi, ca
HESM-M- 10H2-106		106-1	Gray Transite	Ŷ	15% Chrysotile	:	85% qu, ma, bi, ca
HESM-M- 10H3-107		107-1	Green Surfaced Gray Transite	N	15% Chrysotile		85% qu, ma, bi, ca
HESM-M- 10I1-108		108-1	White Drywall	Ŷ	None Detected	2% се	98% qu, gy
HESM-M- 10I2-109		109-1	White Drywall	Y	None Detected	2% се	98% qu, gy

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix

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ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Will Laboratory Director

Chris Williams

Sidney Pintorto Sidney Pinkerton

mi - mica

ot -other

pe - perlite

qu - quartz

Analyst

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Senior Analyst Alicia Stretz

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 1% Feedul point counted positive
 10. TEM analysis suggested

CBRZ106 3359

Phone 505-232-9533

Fax 505-212-0069

Havona Environmental, Inc. P.O. Box 35848

Albuquerque, NM 87176

havonaenvironmental

Environmental consulting and lecting

Havona Project Name and Location:				Hayona Client:					
Holloman Elementary School (Main Buildin	g)			Alamogordo Public Schools					
Holloman Air Force Base				Havona Contact Information:					
Alamogordo, NM				Name: Cissy Puma Phone: 505-977-4938					
Sampled By: Scott Puma and Junior Fres	quez Date	Sampled: 6-4	1-21	Email: havonaenvironmental@yahoo.com					
Sampler's Signature: Auto n			and the second	Page:					
SAMPLE#		OCATION		MA	TERIAL		C	OMMENT	
	M	lain Building							
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Turn Around Time 2-4 Hour	Sa	me Day	24 I	lour	2 Day		(3 Day)	5-10 Day	
Relinquished By:		Date/Time:		Received By:	1			Date/Time:	
Aut the		6-11-2021		Clig h	hing			6-14-2021 8:50	
Relinquished By:		Date/Time:	時期時期時期	Received By:				Date/Time:	

CBR21063359

havonsenvironmental

Havona Environmental, Inc. P.O. Box 35848 Albuquerque, NM 87176 Phone 505-232-9533 Fax 505-212-0069

en-hermonical contributes and leading

Havona Project Name and Location:				Havona Client:						
Holloman Elementary School (Main Buildin	g)			Alamogordo Public Schools						
Holloman Air Force Base				Havona Contact Information:						
Alamogordo, NM				Name: Cissy Puma Phone: 505-977-4938						
Sampled By: Scott Puma and Junior Fres	quez Dat	e Sampled: 6-9	7-21	Email: havonaenvironmental@yahoo.com						
Sampler's Signature: Auto n		Particular states and the second states and the second	The second s	Page:	20	f 8				
SAMPLE#	J	OCATION		MA	TERIAL		COMMENT			
HESM-11-1E3-15		fain Building		6-1	, Lack					
M-2A1-16				FLe	><\ k					
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M-2B1-19										
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M-201-22										
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203 - 26										
M-2F1 -27										
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Turn Around Time 2-4 Hour	Sa	me Day	24 H	Iour	2 Day	(3 Day)	5-10 Day			
Relinquished By:		Date/Time:		Received By			Date/Time:			
Att 12		6-11-2021		64 m			6-14-2021 8:50			
Relinquished By:		Date/Time:		Received By:			Date/Time:			

CBR2106 3359

Phone 505-232-9533

Fax 505-212-0069

Havona Environmental, Inc. P.O. Box 35848

Albuquerque, NM 87176

havonservironmental

Havona Project Name and Location:	Havona Client:									
Holloman Elementary School (Main Buildin	g)			Alamogordo Public Schools						
Holloman Air Force Base	<u></u>			Havona Contact Information:						
Alamogordo, NM		<u> </u>		Name: Cissy Puma Phone: 505-977-4938						
Sampled By: Scott Puma and Junior Fres	Sampled By: Scott Puma and Junior Fresquez Date Sampleu: 6-4-2 (Email: havonaenvironmental@yahoo.com				
Sampler's Signature: ALAN 12		Page:	<u>ک</u>		6					
	M	in Building				THE REAL				
HESM-M-2E1-29	3710			F	LOGR					
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4A2-35										
443 - 36										
LAV ~ 37										
							1			
445-38										
M-481-39										
482-40										
463-41			· ·							
5-401-42	5-401-42				\mathbf{V}					
Turn Around Time 2-4 Hour	Sar	ne Day	24 1	Hour 2 Day		3 Day	5-10 Day			
Relinguished By:		Date/Time:		Received By:	41			Date/Time:		
Att IL	Sector of 20 Web Store By Store Busice States of Store States	6-11-2021		Citts	m ->	THURSDAY BY		6-14-2021 8:50		
Relinquished By:		Date/Time:		Received By:			同時期的時期的設備管理計算	Date/Time:		

CBR21063359

Havona Environmental, Inc. P.O. Box 35848 Albuquerque, NM 87176 Phone 505-232-9533 Fax 505-212-0069

havonaenvironmental

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Havona Project Name and Location:			Havona Client:					
Holloman Elementary School (Main Building)			Alamogordo Public	Schools				
Holloman Air Force Base			Havona Contact Information:					
Alamogordo, NM			Name: Cissy Puma Phone: 505-977-4938					
Sampled By: Scott Puma and Junior Fresque	z Date Sampled: 6	-9-21	Email: havonaenvironmental@yahoo.com					
Sampler's Signature: Aut R			Page:	년 of	8	a ana di sa		
SAMPLE#	LOCATION		MAI	ERIAL	C C	OMMENT		
HESM - 5-402-43	Main Building		6-1)	ALL				
463-44]					
M-401-45								
402 - 116	······································							
403 * 47								
5-421.48								
452-49								
423 50								
4EU - 51								
455 52								
426 - 53								
407-54			N N	/				
M-5A1-55			CEN	1-12-C-				
5A2- 5C			\downarrow					
Turn Around Time 2-4 Hour	Same Day	24 H	lour	2 Day	(3 Day)	5-10 Day		
Relinquished By:	Date/Fine 6-11-2021 Date/Fime		Received By?	ha		Date/Time: 6-/4-202/ B:50 Date/Time:		
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CBR2106 3359

Havona Environmental, Inc. P.O. Box 35848 Albuquerque, NM 87176 Phone 505-232-9533 Fax 505-212-0069

Havona Project Name and Location				Havona Client:					
Holloman Elementary School (Main Buildir	ng)			Alamogordo Public Schools					
Holloman Air Force Base				Havona Contact Information:					
Alamogordo, NM				Name: Cissy Puma Phone: 505-977-4938					
Sampled By: Scott Puma and Junior Fres	quez Dates	Sampled: 6-9	,~2.(Email: havonaenvironmental@yahoo.com					
Sampler's Signature: AM / Long	and the second second	Page:		01	8	ADVINION IN			
	Ma	in Building			LDIVIAL				
HESN-M-543-57		[LEN	ING				
M-581-58				ì					
587 - 59									
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M- 341 61				·					
56.2-62				·····					
5.3-63									
M-501-64									
502 - 65									
503-66									
5-641-67									
627-68									
(1.3 - 19									
644- 70		1			1				
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Relinquished By:		Date/Time:		Received By:				Date/Time:	

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Phone 505-232-9533

Fax 505-212-0069

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Havona Environmental, Inc. P.O. Box 35848

Albuquerque, NM 87176

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Havona Project Name and Location:				Hayona Client:			
Holloman Elementary School (Main Buildin	g)			Alamogordo Public Schools			
Holloman Air Force Base				Havona Contact	Information:		
Alamogordo, NM				Name: Cissy Pun	18	Phone: 505-97	7-4938
Sampled By: Scott Puma and Junior Fres	quez Dat	e Sampled: 6-	9-21	Email: havonaen	vironmental@yahoo.com	<u>n</u>	
Sampler's Signature: Aut h		- Contraction of the second	and the second second second	Page:	<u>6 of</u>	8 B	
SAMPLE #		OCATION		M2	ATERIA L	C C C	KOMMENT
HESM-S-6K5-71		iain Building		CEI	LING		
M-841-12				D	0LT		
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8A3-74				~	L.		
M-921 - 75				Re	><>F		
92276				đ			
M-981-77							
M-901-78							
962-79							
963-80							
M-901 -81							
902-82							
903 ~ 83					\downarrow		
M-1021-84		\checkmark		U	AL		
Turn Around Time 2-4 Hour	Sa	me Day	24 I	lour	2 Day	(3 Day)	5-10 Day
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Relinquished By:		Date/Time:		Received By:			Date/Time:

LBR 7/063359 Havona Environmental, Inc. P.O. Box 35848 Phone 505-232-9533 Fax 505-212-0069

havonaenvironmental

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PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:			
Holloman Elementary School (Main Building)	·			Alamogordo Public	Schools		
Holloman Air Force Base				Havona Contact I	nformation:		
Alamogordo, NM				Name: Cissy Puma	L	Phone: 505-977	7-4938
Sampled By: Scott Puma and Junior Fresque	z Date Sa	mpled: 6-9-	·21	Email: havonaenv	ironmental@yahoo.con	<u>n</u>	
Sampler's Signature: Aut R				Page:	7 of	8	
SAMPLE #	LO	CATION		MA	PERIAL	<u> </u>	OMMENT
	Maiı	n Building					
HESM-M-10A2-85				4 د د)	<u>u</u>	·	
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Albuquerque, NM 87176

CBR21063359

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Havona Environmental, Inc. P.O. Box 35848 Albuquerque, NM 87176

Phone 505-232-9533 Fax 505-212-0069

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Havona Project Name and Location:		Havona Client:	
Holloman Elementary School (Main Building)		Alamogordo Public Schools	
Holloman Air Force Base		Havona Contact Information:	
Alamogordo, NM	•	Name: Cissy Puma	Phone: 505-977-4938
Sampled By: Scott Puma and Junior Fresquez	Date Sampled: 6-9-21	Email: havonaenvironmental@yahoo.com	
Sampler's Signature: Artt 12		Page: g of	8
SAMPLE#	LOCATION	MATERIAL	COMMENT
HESM-5-10F2-99	Main Building	ExT. SOFFIT	
1053-100		4	
M-106-1 - 101		EXT, SOFFIT	· ·
1062-102			
106-3-103			
1064-104		4	
M-10H1-105		word	
10HZ-106			
1043-107		↓	
M-10I.1-108		w KUL	
107.2-109	Υ	4	
Turn Around Time 2-4 Hour	Same Day 24	Hour 2 Day	(3 Day ') 5-10 Day
Relinquished By:	Date/Time:	Received Br: //	Date/Time:
Autt h_	6-11-2021	1 Cly Marx	6-14-2021 8:50
Relinguished By:	Date/Time;	Received By:	Date/Time:

Dedicated to Quality

CA Labs. L.L.C. 12232 Industriplex. Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Point Count Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Original asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Oualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP or AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

Customer Havona E P.O.Box 35 Albuquerqu	Info: Enviroi 6848 Je, NM	Attn: Cissy Puma Inmental 87176		Customer Project: Holloman Elementary School (Main Building) RE:CBR21063359	CA Labs Project #: CBR21084713 Date:	8/12/2021
Phone # Fax #	505-2 505-2	232-9533 256-8237		Turnaround Time: 2 day	Samples Received: Date Of Sampling: Purchase Order #:	6/14/2021 6/9/2021
Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type		
HESM-S- 4E4-51	51-1	White Plaster	Ŷ	0.75% Chrysotile		,

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Approved Signatories:

idner pintorto

Sidney Pinkerton Analyst

Senior Analyst Alicia Stretz

Chris Willing

Laboratory Director Chris Williams

CA LABS

CA Labs, LLC 12232 Industriplex Blvd Suite 31/32 Baton Rouge, LA 70809

Phone: 225-751-5632 Fax: 225-751-5634 Mobile: 225-993-3471

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CA Labs Client Na	me: Hav	ona		Billir	ng Addres	s:							
Client Address:	·····			(If Di	ifferent)						:		
	· ·												
Phone Number:				Send	Reports	to (email	address	s):			•		
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Project Number:	Ke:CBK	210632	357	Results Re	portea v	ia: Email		Fax	Vi	erpai _			
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Administration Baton Rouge <calabsbr@calabsinc.com>

Point Count

1 message

CBR21084713

havona environmental <havonaenvironmental@yahoo.com> To: Administration Baton Rouge <calabsbr@calabsinc.com>

Wed, Aug 11, 2021 at 2:41 PM

Can you please point count the following sample on a 2 day TAT. Thank you.

Cbr21063359

Sample# HESM-S-4E4-51

Scott Puma

Environmental Consultant

Havona Environmental, Inc. P.O. Box 35848 Albuquerque, NM 87176

Phone: 505-977-4938 Fax: 505-256-8237

lec: af M- 2 8-11-2021

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Havona Environmental P.O.Box 35848 Albuquerque, NM 87176

Attn: Cissy Puma Customer Project: Holloman Elementary School (West Wing) Reference #: CBR21063358

Date: 6/17/2021

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are idee' for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project	:	Holloman Elementary School ((West Wing)	CA Labs Project #:	CBR21063358		
Sample # Layer #		Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types			
HESW-M- 2A1-10	10-1	Green Floor Tile	3% Chrysotile	Green Fle Black Ma Tan Floo	oor Tile Istic r Tile		
	10-2	Black Mastic	5% Chrysotile	White Flo Gray Inst Gray Fall	oor Tile ulation		
HESW-M- 2A2-11	11-1	Green Floor Tile	3% Chrysotile	Gray Fen Tan Surfa Brown Si	aced Tan Plaster urfaced Gray Sealant		
	11-2	Black Mastic	5% Chrysotile	_			
HESW-M- 2B1-12	12-1	Tan Floor Tile	2% Chrysotile	_			
	12-2	Black Mastic	5% Chrysotile	_			
HESW-M- 2B2-13	13-1	White Floor Tile	2% Chrysotile	_			
	13-2	Black Mastic	5% Chrysotile	_			

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite
gypsum - gypsum	qu - quartz
bi - binder	
or - organic	
ma - matrix	
ml - mica	
ve - vermiculite	
ot - other	

pa - palygorskite (clay)

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fg - fiberglass

mw - mineral wool wo - wollastinite ta - talc sy - synthetic ce - cellulose br - brucite ka - kaolin (clay)

CA Labs CA Labs, L.L.C.

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project		Holloman Elementary School (West Wing)	CA Labs Project #:	CBR21063358
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affe Mater	ected Building ial Types
HESW-M-					
2C1-14	14-1	Tan Floor Tile	2% Chrysotile	_	
	14-2	Black Mastic	5% Chrysotile	-	
HESW-M- 2C2-15	15-1	Tan Floor Tile	2% Chrysotile	_	
	15-2	Black Mastic	5% Chrysotile	_	
HESW-M- 2C3-16	16-1	Tan Floor Tile	2% Chrysotile	-	
	16-2	Black Mastic	5% Chrysotile	-	
HESW-M- 2E1-19	19-2	Tan Floor Tile	2% Chrysotile	-	
	19-3	Black Mastic	5% Chrysotile	_	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass
gypsum - gypsum	qu - quartz	mw - mineral wool
bi - binder		wo - wollastinite
or - organic		ta - talc
ma - matrix		sy - synthetic
mi - mica		ce - cellulose
ve - vermiculite		br - brucite
ot - other		ka - kaolin (clay)

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pa - palygorskite (clay)

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Pro	ject:	Holloman Elementary School (West Wing)	CA Labs Project #:	CBR21063358
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affe Mater	ected Building ial Types
HESW-M- 2E2-20	20-1	Tan Floor Tile	3% Chrysotile	_	
	20-2	Black Mastic	5% Chrysotile	_	
HESW-T- 3A1-21	21-1	Gray Insulation	6% Chrysotile	_	
HESW-T- 3A2-22	22-1	Gray Insulation	6% Chrysotile	_	
HESW-T- 3A3-23	23-1	Gray Insulation	6% Chrysotile	_	
HESW-T- 3B1-24	24-1	Gray Felt	60% Chrysotile	_	
HESW-T- 3B2-25	25-1	Gray Felt	60% Chrysotile	_	
HESW-T- 3B3-26	26-1	Gray Felt	60% Chrysotile		

Giossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate pe - perlite gypsum - gypsum qu - quartz bi - binder or - organic ma - matrix mi - mica ve - vermiculite ot - other pa - palygorskite (clay)

wo - wollastinite ta - talc sy - synthetic ce - cellulose

fg - fiberglass

mw - mineral wool

br - brucite

ka - kaolin (clay)

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project	t:	Holloman Elementary School (\	West Wing)	CA Labs Project #:	CBR21063358
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affe Mater	ected Building ial Types
HESW-S- 10B1-49	49-1	Tan Surfaced Tan Plaster	3% Chrysotile		
			0.000.000	-	
HESW-S-					
10B2-50	50-1	Tan Surfaced Tan Plaster	3% Chrysotile	_	
HESW-S-					
10B3-51	51-1	Tan Surfaced Tan Plaster	3% Chrysotile	_	
11501411					
HESW-M- 10C1-52	52-1	Brown Surfaced Grav Sealant	2% Chrvsotile		
				_	
HESW-M-					
10C2-53	53-1	Brown Surfaced Gray Sealant	2% Chrysotile	-	
HESW-M-	54-1	Brown Surfaced Grav Sealant	2% Chrysotile		
1003-34	04-1	Brown Sunaced Glay Sealant	2% Chi ysoule	-	
HESW-M-					
10E1-58	58-1	Tan Textured Surfacing	2% Chrysotile	_	
HESW-M-					
10E2-59	59-1	Tan Textured Surfacing	2% Chrysotile		

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix ma - matrix mi - mica ve - vermiculite ot - other	pe - perlite qu - quartz	fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic ce - cellulose br - brucite ka - kaolin (clay)	pa - palygorskite (clay)
---	-----------------------------	--	--------------------------

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

Dedicated to Quality CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (West Wing)		CA Labs Project #:	CBR21063358
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affe Materi	ected Building al Types

HESW-M-10E3-60

60-1 Tan Textured Surfacing

2% Chrysotile

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

pe - perlite

qu - quartz

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix mi - mica ve - vermiculite ot - other

pa - palygorskite (clay)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

fg - fiberglass

mw - mineral wool

wo - wollastinite

ka - kaolin (clay)

ta - taic sy - synthetic ce - cellulose

br - brucite
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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer	Info:	Attn:	Cissy Puma	Custor	ner Project:			
Havona E	nviror	nment	al	Hollom	an Elementary School	CBR21063358		
P.O.Box 35	848			(West \	Ning)			
Albuquerqu	e, NM	B7176				Date:	6/17/2021	
				Turnar	ound Time: 3 day	Samples Received:	6/14/2021	
Phone #	505-2	32-953	33			Date Of Sampling:	6/10/2021	
Fax #	505-2	56-823	37			Purchase Order #:		
Sample #	Com	Layer	Analysts Physical Description of	Homo	- Asbestos type /	Non-asbestos fiber	Non-fibrous type	
	ment	#	Subsample	geneo	calibrated visual	type / percent	/ percent	
				us	estimate percent			
				(Y/N)				
					<u></u>	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		
HESW-M-								
1A1-1		1-1	Brown Mastic	Y	None Detected	- 	100% qu, bi	
142-2		2-1	Brown Mastic	Y	None Detected		100% au bi	
					Hone Denoticu		10078 qu, bi	
		2-2	Gray Plaster	Y	None Detected		100% qu, ma, ca	
HESW-M-								
1A3-3		3-1	Brown Mastic	<u> </u>	None Detected		100% qu, bi	
		2.2	Grav Plaster	v	None Detected		100% au ma ao	
			Citay Flaster	/	None Delected		100% qu, ma, ca	
HESW-M-								
1B1-4		4-1	Tan Mastic	Y	None Detected		100% qu, bi	

		4-2	White Leveling Compound	Y	None Detected		100% qu, ma, ca	
			Analysis Method: Interim (40CFR Part	763 Appendix	E to Subpart E) / Improved (EPA-	600 / R-93/116)		
		Preparatio	on Method: HCL acid washing for carbonate base identification of asbestos	ed samples, ch types by disp	nemical reduction for organically bo ersion attaining / becke line metho	ound components, oil immersion for	or	
			ca - carbonate mi - mica	fg - fibergla	ss ce - cellulose			
			gypsum - gypsum ve - vermiculite	mw - minera	al wool br - brucite			
			or - organic pe - perlite	ta - talc	pa - palygorskite	e (clay)	wed Signatories:	
			ma - matrix qu - quartz	sy - synthet	ic	Арріс	ved olynatories.	
							21. 911	
			Doch Dr				Arelas Gabler	

David Darby

Analyst

Arralyst 1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers 2. Fire Damage no significant fiber damages effecting fibrous percentages 3. Actinolite in association with Vermiculite 4. Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Anicophysical association with reports rate
 Contamination suspected from other building materials
 Favorable sconario for water separation on vermiculite for possible analysis by another method
 1% Result point counted positive
 TEM analysis suggested

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer	Customer Info: Attn: Cissy Puma			Custor	ner Project:	CA Labs Project #:	
Havona E	nviror	nment	al	Holloma	an Elementary School	CBR21063358	
P.O.Box 35	848			(West V	Ving)		
Albuquerqu	e, NM 8	37176				Date:	6/17/2021
				Turnard	ound Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/10/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESW-M- 1B2-5		5-1	Tan Mastic	Y	None Detected		100% qu. bi
HESW-M-							
1B3-6		6-1	Tan Mastic	Y	None Detected		100% qu, bi
HESW-M- 1C1-7		7-1	Brown Mastic	Ŷ	None Detected		100% qu, bi
HESW-M- 1C2-8		8-1	Brown Mastic	Ŷ	None Detected		100% gu, bi
HESW-M- 1C3-9		9-1	Brown Mastic	Ŷ	None Detected		100% qu, bi
		9-2	White Drywall	Y	None Detected	5% се	95% qu, gy
HESW-M- 2A1-10		10-1	Green Floor Tile	Ŷ	3% Chrysotile		97% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

DY

David Darby

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

br - brucite ka - kaolin (clay) pa - palygorskite (clay)

ce - cellulose

Approved Signatories:

Chris Ull

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talo
 7. Contamination suspected from other building materials
 8. Favorable scenario for water soparation on vermiculite for possible analysis by another method
 9. < 1% Result point counted positive
 10. TEM analysis suggested

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Dedicated to Quality

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer	Customer Info: Attn: Cissy Puma			Custom	ner Project:	CA Labs Project #:		
Havona E	nviror	nment	al	Holloma (West W	an Elementary School	CBR21063358		
Albuquerau	e. NM (87176		(110011		Data	6/17/2021	
				Turnaro	und Time: 3 day	Samples Received	6/14/2021	
Phone #	505-2	32-953	33	rannare	and mile. o day	Date Of Sampling:	6/10/2021	
Fax #	Fax # 505-256-8237					Purchase Order #:	0/10/2021	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent	
	4 	10-2	Black Mastic	Ŷ	5% Chrysotile		95% qu, bi	
HESW-M-								
2A2-11		11-1	Green Floor Tile	<u>Y</u>	3% Chrysotile	·····	97% qu, ma, ca	
		11-2	Black Mastic	Y	5% Chrysotile		95% qu, bi	
HESW-M-		12-1	Tan Floor Tile	v	2% Chrysotile		98% au ma oa	
201-12		12-1			278 Chrysolite		96% qu, ma, ca	
		12-2	Black Mastic	Ŷ	5% Chrysotile	······································	95% qu, bi	
HESW-M-								
2B2-13		13-1	White Floor Tile	Y	2% Chrysotile		98% qu, ma, ca	
		13-2	Black Mastic	Y	5% Chrysotile		95% qu, bi	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

L DI David Darby

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clav) pa - palygorskite (clay)

Approved Signatories:

Chris U.L.

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc
 7. Contamination suspected from other building materials
 8. Favorable sconario for water separation on vermiculite for possible analysis by another method
 9. < 1% Result point counted positive
 10. TEM analysis suggested

 Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Z. Fire Damage no significant fiber damages effecting fibrous percentages
 A chirofite in association with Vermiculite
 Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Dedicated to Quality

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer	Customer Info: Attn: Cissy Puma			Custom	er Project:	CA Labs Project #:		
Havona E	nviror 848	nment	al	Holloma (West W	In Elementary School Ving)	CBR21063358		
Albuquerqu	e, NM	87176				Date:	6/17/2021	
				Turnaro	ound Time: 3 day	Samples Received:	6/14/2021	
Phone #	505-2	32-95	33			Date Of Sampling:	6/10/2021	
Fax #	505-2	256-823	37			Purchase Order #:		
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent	
HESW-M-				N/			000/	
2C1-14		14-1	I an Floor Tile	Ŷ	2% Chrysotile		98% qu, ma, ca	
		14-2	Black Mastic	Y	5% Chrysotile		95% qu, bi	
HESW-M-		15-1	Tan Floor Tile	Y	2% Chrvsotile	• *	98% gu, ma, ca	
202-10		101			2/0 0		<u> </u>	
		15-2	Black Mastic	Y	5% Chrysotile		95% qu, bi	
HESW-M-				V	2º/ Chrysotila		09% au ma aa	
2C3-16		16-1	Tan Floor Tile	Ŷ	2% Chrysolile		98% qu, ma, ca	
		16-2	Black Mastic	Y	5% Chrysotile		95% qu, bi	
HESW-M-		17.1	Gray Vinyl Floor Tile	Y	None Detected		100% gu ma	
201-17		17-1	Gray Villy11001 Hie		Home Deteoted			

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

2. Fire Damage no significant fiber damages effecting fibrous percentages

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

DY

David Darby

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Ull

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 < 1% Result point counted positive

10. TEM analysis suggested

3. Actinolite in association with Vermiculite Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer l	Customer Info: Attn: Cissy Puma				ner Project:	CA Labs Project #:		
Havona E	nviror	nment	al	Holloma	an Elementary School	CBR21063358		
P.O.Box 35	848			(West V	Ving)			
Albuquerqu	e, NM 8	87176				Date:	6/17/2021	
				Turnard	ound Time: 3 day	Samples Received:	6/14/2021	
Phone #	505-2	32-953	33		-	Date Of Sampling:	6/10/2021	
Fax #	ax # 505-256-8237		37			Purchase Order #:		
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	 Asbestos type / calibrated visual estimate percent 	Non-asbestos fiber type / percent	Non-fibrous type / percent	
HESW-M- 2D2-18		18-1	Gray Vinyl Floor Tile	Ŷ	None Detected		100% qu, ma	
HESW-M-								
2E1-19		19-1	Tan Mastic	Y	None Detected		100% qu, bi	
		19-2	Tan Floor Tile	Ŷ	2% Chrysotile		98% qu, ma, ca	
		<u>19-3</u>	Black Mastic	Ŷ	5% Chrysotile		95% qu, bi	
HESW-M- 2E2-20		20-1	Tan Floor Tile	Y	3% Chrysotile	······································	97% qu, ma, ca	
		20-2	Black Mastic	Y	5% Chrysotile		95% qu, bi	
		20-3	White Leveling Compound	Ŷ	None Detected	- 197	100% qu, ma, ca	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

DY

David Darby

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Ull

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Animologity in a social of the introduct rate
 Contamination suspected from other building matterials
 Favorable scenario for water soparation on vermiculite for possible analysis by another method
 1% Result point counted positive
 TEM analysis suggested

Fire Damage asymmetric for camage - representation of the second performance index and the second performance index and

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info:		Attn:	Cissy Puma	Custom	er Project:	CA Labs Project #:	
Havona E P.O.Box 35	nviror 848	nment	al	Holloma (West W	In Elementary School /ing)	CBR21063358	
Albuquerqu	e, NM a	87176				Date:	6/17/2021
				Turnaro	ound Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/10/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
			· · · · · · · · · · · · · · · · · · ·				
HESW-T-							
3A1-21		21-1	Gray Insulation	Y	6% Chrysotile	20% fg	74% qu, ma, ca
HESW-T-		22-1	Grav Insulation	v	6% Chrúsotile	20% fa	74% gu ma ca
3AL-22		22-1	Gray moulation		0% On youne	207819	7 470 qu, ma, ca
HESW-T- 3A3-23		23-1	Gray Insulation	Ŷ	6% Chrysotile	20% fg	74% qu, ma, ca
						·····	
HESW-T- 3B1-24		24-1	Gray Felt	Y	60% Chrysotile	·	40% qu, ma
HESW-T-		25-1	Grav Felt	v	60% Chrysotile		40% gu ma
002-20		20-1	Giay i en		ou /o onn y source		4070 qu, ma
HESW-T- 3B3-26		26-1	Gray Felt	Ŷ	60% Chrysotile		40% qu, ma
HESW-S-		27-1	White Textured Surfacing	N	None Detected		100% qu, mi, bi,

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

fg - fiberglass ve - vermiculite mw - mineral wool wo - wollastinite ta - talc sy - synthetic

mi - mica

ot -other

pe - perlite

gu - guartz

LD L

David Darby

Analyst

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Ull

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method

10. TEM analysis suggested

Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Dedicated to Quality

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Havona Environ		Attn: hment	: Cissy Puma al	Custom Holloma	er Project: In Elementary School	CA Labs Project #: CBR21063358	
P.O.Box 35	848			(West W	(ing)		
Albuquerqu	e, NM	87176	•			Date:	6/17/2021
				Turnaro	ound Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/10/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
			White Compound Beneath	N/			1000/
		27-2	Tape	<u> </u>	None Detected		100% qu, bi, ca
		27-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESW-S- 4A2-28		28-1	White Textured Surfacing	N	None Detected		100% qu, mi, bi, ca
		28-2	White Compound Beneath Tape	Ŷ	None Detected		100% gu, bi, ca
					· · · · · · · · · · · · · · · · · · ·		
		28-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESW-S- 4A3-29		29-1	White Textured Surfacing	N	None Detected		100% qu, mi, bi, ca
		29-2	White Compound Beneath Tape	Y	None Detected		100% qu, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

7. Contamination suspected from other building materials

Approved Signatories:

Aris all Laboratory Director

Chris Williams

Senior Analyst Alicia Stretz

6. Anthophyllite in association with Fibrous Talo

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers 2. Fire Damage no significant fiber damages offecting fibrous percentages

DI

David Darby

Analyst

Actinotic in association with Vermiculite
 Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. <1% Result point counted positive
10. TEM analysis suggested

CA Labs, L.L.C.

Dedicated to Quality

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer I	ustomer Info: Attn: Cissy Puma				er Project:	CA Labs Project #:		
Havona E	nviron	menta	al	Holloma	in Elementary School	CBR21063358		
P.O.Box 358	848			(West W	/ing)			
Albuquerqu	e, NM 8	37176				Date:	6/17/2021	
				Turnaro	ound Time: 3 day	Samples Received:	6/14/2021	
Phone #	505-2	32-953	3			Date Of Sampling:	6/10/2021	
Fax #	505-2	56-823	37			Purchase Order #:		
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent	
		29-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy	
HESW-M- 4B1-30		30-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca	
HESW-M- 4B2-31		31-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca	
HESW-M- 4B3-32		32-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca	
HESW-S- 4C1-33		33-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca	
HESW-S- 4C2-34		34-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca	
HESW-S- 4C3-35		35-1	Tan Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

mw - mineral wool

wo - wollastinite

fg - fiberglass

sy - synthetic

ta - talc

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

mi - mica ve - vermiculite ot -other pe - perlite au - auartz

DV

David Darby

Analyst

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Ull

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophylite in association with Fibrous Talc
 7. Contamination suspected from other building materials
 8. Favorable scenario for water separation on vermiculite for possible analysis by another method
 9. < 1% Result point counted positive
 10. TEM analysis suggested

2. Fire Damage anginitian rule cantage - reported percentages related intered fibers
 2. Fire Damage no significant fiber damages effecting fibrous percentages
 3. Actinoitie in association with Vermiculite
 4. Layer not analyzed - attached to previous positive layer and contamination is suspected
 5. Not enough sample to analyze

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

tal 33 37 Analysts Physical Description of Subsample Tan Surfaced Grav Plaster	Holloma (West W Turnarc Homo- geneo us (Y/N)	an Elementary School Ving) Dund Time: 3 day Asbestos type / calibrated visual estimate percent	CBR21063358 Date: Samples Received: Date Of Sampling: Purchase Order #: Non-asbestos fiber type / percent	6/17/2021 6/14/2021 6/10/2021 Non-fibrous type / percent
33 37 Analysts Physical Description of Subsample Tan Surfaced Grav Plaster	(West W Turnarc Homo- geneo us (Y/N)	ound Time: 3 day Asbestos type / calibrated visual estimate percent	Date: Samples Received: Date Of Sampling: Purchase Order #: Non-asbestos fiber type / percent	6/17/2021 6/14/2021 6/10/2021 Non-fibrous type / percent
 33 37 Analysts Physical Description of Subsample Tan Surfaced Grav Plaster 	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Date: Samples Received: Date Of Sampling: Purchase Order #: Non-asbestos fiber type / percent	6/17/2021 6/14/2021 6/10/2021 Non-fibrous type / percent
33 37 Analysts Physical Description of Subsample Tan Surfaced Grav Plaster	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Samples Received: Date Of Sampling: Purchase Order #: Non-asbestos fiber type / percent	6/14/2021 6/10/2021 Non-fibrous type / percent
33 37 Analysts Physical Description of Subsample Tan Surfaced Grav Plaster	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Date Of Sampling: Purchase Order #: Non-asbestos fiber type / percent	6/10/2021 Non-fibrous type / percent
37 Analysts Physical Description of Subsample Tan Surfaced Grav Plaster	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Purchase Order #: Non-asbestos fiber type / percent	Non-fibrous type / percent
Tan Surfaced Grav Plaster	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
Tan Surfaced Grav Plaster				
	N	None Detected	·····	100% qu, ma, bi, ca
			1	
Tan Surfaced White Finishing				100% qu, ma, bi,
Plaster	<u>N</u>	None Detected		са
Gray Plaster	Y	None Detected		100% qu, ma, ca
Yellow Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
White Surfaced White Finishing Plaster	N	None Detected		100% qu, ma, bi, ca
Gray Plaster	Ŷ	None Detected		100% qu, ma, ca
Tan Ceiling Tile	Y	None Detected	80% ce	20% qu, ma
	Plaster Gray Plaster Yellow Surfaced Gray Plaster White Surfaced White Finishing Plaster Gray Plaster Gray Plaster Tan Ceiling Tile Analysis Method: Interim (40CFR Part)	Plaster N Gray Plaster Y Yellow Surfaced Gray Plaster N White Surfaced White Finishing N Plaster N Gray Plaster Y Gray Plaster Y Tan Ceilling Tile Y Analysis Method: Interim (40CFR Part 763 Appendix	Plaster N None Detected Gray Plaster Y None Detected Yellow Surfaced Gray Plaster N None Detected White Surfaced White Finishing Plaster N None Detected Gray Plaster Y None Detected Gray Plaster Y None Detected Tan Ceiling Tile Y None Detected Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-4)	Plaster N None Detected Gray Plaster Y None Detected Yellow Surfaced Gray Plaster N None Detected White Surfaced White Finishing Plaster N None Detected Gray Plaster Y None Detected Gray Plaster Y None Detected Tan Ceiling Tile Y None Detected Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

or - organic ma - matrix

- perlite au - guartz

David Darby

Analyst

ta - talc sy - synthetic

pa - palygorskite (clay)

Approved Signatories:

Chris Ull

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Ontamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 1% Result point counted positive
 10. TEM analysis suggested

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite
 A. Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Ci		Attn:	Cissy Puma	Custom	er Project:	CA Labs Project #:		
Havona E	nviron	menta	al	Holloma	n Elementary School	CBR21063358		
P.O.Box 35	848			(West W	/ing)			
Albuquerqu	e, NM 8	37176				Date:	6/17/2021	
				Turnaro	und Time: 3 day	Samples Received:	6/14/2021	
Phone #	505-2	32-953	33			Date Of Sampling:	6/10/2021	
Fax #	505-2	56-823	37			Purchase Order #:		
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent	
HESW-M-			T 0 /// T//	V	N	0001	000/	
5A2-41		41-1	Tan Ceiling Tile	Ŷ	None Detected	80% ce	20% qu, ma	
HESW-M-		42-1	Tan Ceiling Tile	Y	None Detected	80% ce	20% gu ma	
0/10 12		-16 /					2070 qu, ma	
HESW-M- 8A1-43		43-1	Gray Sealant	Ŷ	None Detected		100% qu, ma	
HESW-M- 8A2-44		44-1	White Surfaced Gray Sealant	N	None Detected		100% qu, ma, bi	
HESW-M- 8A3-45		45-1	Gray Sealant	Ŷ	None Detected		100% qu, ma	
HESW-M- 10A1-46		46-1	White Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca	
HESW-M- 10A2-47		47-1	White Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers 2. Fire Damage no significant fiber damages effecting fibrous percentages

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

L DI David Darby

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Aris Ull

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Anthophylitte in association with Fibrous Talc
 Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method

 < 1% Result point counted positive
 </td>

 Actinolite in association with Vermiculite
 Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex. Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer	Customer Info: Attn: Cissy Puma			Custom	er Project:	CA Labs Project #:		
Havona E P.O.Box 35	nviron 848	ment	al	Holloma (West W	n Elementary School /ing)	CBR21063358		
Albuquerqu	e, NM 8	7176				Date:	6/17/2021	
				Turnaro	und Time: 3 day	Samples Received:	6/14/2021	
Phone #	505-23	32-953	33			Date Of Sampling:	6/10/2021	
Fax #	505-25	56-823	37			Purchase Order #:		
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent	
HESW-M- 10A3-48		48-1	Tan Surfaced White Finishing Plaster	N	None Detected		100% qu, ma, bi, ca	
<u></u>		10.0				<u>, , , , , , , , , , , , , , , , , , , </u>	1000/	
		48-2	Gray Plaster	Y	None Detected		100% qu, ma, ca	
HESW-S- 10B1-49		49-1	Tan Surfaced Tan Plaster	N	3% Chrysotile		97% qu, ma, bi, ca	
HESW-S- 10B2-50		50-1	Tan Surfaced Tan Plaster	N	3% Chrysotile		97% qu, ma, bi, ca	
		50-2	Gray Plaster	Y	None Detected		100% qu, ma, ca	
HESW-S- 10B3-51		51-1	Tan Surfaced Tan Plaster	N	3% Chrysotile		97% qu, ma, bi, ca	
HESW-M- 10C1-52		52-1	Brown Surfaced Gray Sealant	N	2% Chrysotile		98% qu, ma, bi	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

ve - vermiculite ot -other pe - perlite qu - quartz

1 DI David Darby

Analyst

mi - mica

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris U.S.

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc
 7. Contamination suspected from other building materials
 8. Favorable scenario for water separation on vermiculite for possible analysis by another method
 9. < 1% Result point counted opesitive
 10. TEM analysis suggested

 Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Z: Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite
 A. Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex. Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info:		: Attn: Cissy Puma			er Project:	CA Labs Project #:		
Havona E	nviror	nment	al	Holloma	n Elementary School	CBR21063358		
P.O.Box 35	848			(West W	/ing)			
Albuquerqu	e, NM 8	87176				Date:	6/17/2021	
				Turnaro	und Time: 3 day	Samples Received:	6/14/2021	
Phone #	505-2	32-953	33			Date Of Sampling:	6/10/2021	
Fax #	505-2	256-823	37			Purchase Order #:		
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent	
HESW-M-								
10C2-53		53-1	Brown Surfaced Gray Sealant	<u>N</u>	2% Chrysotile	·	98% qu, ma, bi	
HESW-M- 10C3-54		54-1	Brown Surfaced Gray Sealant	N	2% Chrysotile		98% qu, ma, bi	
HESW-M- 10D1-55		55-1	White Sealant	Ŷ	None Detected	6% wo	94% qu, ma, ca	
HESW-M- 10D2-56		56-1	White Sealant	Ŷ	None Detected	6% wo	94% qu, ma, ca	
HESW-M- 10D3-57		57-1	White Sealant	Y	None Detected	6% wo	94% qu, ma, ca	
HESW-M- 10E1-58		58-1	Tan Textured Surfacing	N	2% Chrysotile		98% qu, ma, bi, ca	
HESW-M- 10E2-59		59-1	Tan Textured Surfacing	N	2% Chrysotile		98% qu, ma, bi, ca	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers 2. Fire Damage no significant fiber damages effecting fibrous percentages

fg - fiberglass ve - vermiculite mw - mineral wool wo - wollastinite ta - talc sy - synthetic

mi - mica

ot -other

pe - perlite

qu - quartz

DV

David Darby

Analyst

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Ulla

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Antiophysical associated with microbiols rate.
 Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 1% Result point counted positive
 10. TEM analysis suggested

3. Actinolite in association with Vermiculite 4. Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Page 18 of 19

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer I Havona El P.O.Box 358	Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848 Albuquerque, NM 87176			Custome Hollomar (West W	er Project: n Elementary School ing)	CA Labs Project #: CBR21063358	6/17/2021
Albuquerque, NM 87176						Date:	
Phone # Fax #	505-2 505-2	32-953 56-823	3 7	Turnaro	und Time: 3 day	Samples Received: Date Of Sampling: Purchase Order #:	6/14/2021 6/10/2021
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESW-M- 10E3-60		60-1	Tan Textured Surfacing	N	2% Chrysotile		98% qu, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

mi - mica ve - vermiculite ot -other pe - perlite gu - quartz

DY

fg - fiberglass mw - mineral wool wo - wollastinite ta - taic sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Ville

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

David Darby Analyst

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method

9. < 1% Result point counted positive 10. TEM analysis suggested

CBR2106 3358

Havona Environmental, Inc. P.O. Box 35848 Albuquerque, NM 87176

Phone 505-232-9533 Fax 505-212-0069

havenaenvironmental

Holloman Air Force Base

Havona Project Name and Location:

Holloman Elementary School (West Wing)

Havona Client: Alamogordo Public Schools Havona Contact Information: Name: Cissy Puma

Alamogordo, NM		Name: Cissy Puma Phone: 505-977-4938			7-4938
Sampled By: Scott Puma and Junior Fresque	z Date Sampled: 6-10-21	Email: havonaenvironmental	@yahoo.com		
Sampler's Signature: ANT R		Page:	/ of	5	
SAMBLE#	LOCATION	MATERIAL		C	OMMENT
	West Wing				
HESW - M-121-1	1	le ALL			
122-2					
1A:3-3		₩.			
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262-13					
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Turn Around Time 2-4 Hour	Same Day 2	4 Hour 2 Day		3 Day	5-10 Day
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Relinguished By:	Date/Time:	Received By:			Date/Time:

CBR2106 3358

havonsenvironmental			:	1	Havona Environmental, Inc. P.O. Box 35848	Phone 505-232-9533 Fax 505-212-0069
ક્ષાન્યેલ્ટરાજનાદીએ ૬૯.૮૮.પીંદાનું સાન્દ્ર ક્રિટોલાડ		PLM BULK SAN	APLE CHAIN OF CUS	TODY	Albuquerque, NM 8/1/6	
Hayona Project Name and Location:			Hayona Clien			
Holloman Elementary School (West Wing)			Alamogordo P	ublic Schools		Realized of the state
Holloman Air Force Base			Havona Conta	ict Information:		
Alamogordo, NM			Name: Cissy I	² uma	Phone: 505-977-49	938
Sampled By: Scott Puma and Junior Fresquer	z Date Sar	npled: 6-10-21	Email: havon	aenvironmental@yahoo.co	oin	
Sampler's Signature: AUT 12-			Page:	21	01 5 ⁻	
SAMPLE#	LOC	ALION		MATERIAL	CON	IMIGNI
11-02-010-052-015	wes	st wing	1			
HESUS M-2Col 13						
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M-201-17						
202-18						
071-19						
<u>M~2E111</u>						
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3

CBR2106 3358 Havona Environmental, Inc. P.O. Box 35848 Albuquergue, NM 87176

Phone 505-232-9533

Fax 505-212-0069

hevoneenvironmental

Havona Project Name and Location:		Havona Client:					
Holloman Elementary School (West Wing)				Alamogordo Public Schools			
Holloman Air Force Base				Havona Contact	information:	BL	402.0
Alamogordo, NM	Data	Camplade .		Name: Cissy Puina Phone: 505-977-4938 Email: havenopy/insupported/0/uphon comp			
Sampled By: Scott Puna and Junior Fres		Sampled: 6-1	0-21	Page		5	
Sampler's Signature: 7477 12-	1	OCATION		MA	TERIAL		OMMENT
		West Wing	and the state of the			ALL CONTRACTOR AND CONTRACTOR OF TAXA	
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M-481-30							
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UBRZIOG 3358 Havona Environmental, Inc. P.O. Box 35848

Albuquerque, NM 87176

Phone 505-232-9533

Fax 505-212-0069

havonaenvironmentsi

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Havona Project Name and Location:				Havona Client:				
Holloman Elementary School (West Wing)				Alamogordo Public Schools				
Holloman Air Force Base				Havona Contact In	iformation:			
Alamogordo, NM				Name: Cissy Puma Phone: 505-977-4938				
Sampled By: Scott Puma and Junior Fres	quez Date	Sampled: 6-1	10-21	Email: havonaenvironmental@yahoo.com				
Sampler's Signature: ANT /			STREET, STREET, ST	Page:	10 14	5		
SAVIPLE#		UCATION		MA	BRIAL		OWNER	
HESW-M-8A1-43		west wing		D	ULT			
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Relinquished By:		Date/Time:		Received By:		開始的時間的時代	Date/Time:	

(BRZ1063358 Havona Environmental, Inc. P.O. Box 35848 Phone 505-232-9533

Albuquerque, NM 87176

Fax 505-212-0069

havonaenvironmentsi en-interactal contributy and leading

Havona Project Name and Location:				Havona Client:			
Holloman Elementary School (West Wing)				Alamogordo Public Schools			
Holloman Air Force Base				Havona Contact I	nformation:		
Alamogordo, NM				Name: Cissy Puma Phone: 505-977-4938			
Sampled By: Scott Puma and Junior Fres	squez Date	Sampled: 6-1	0-21	Email: havonaenv	ironmental@yahoo.com	<u>]</u>	
Sampler's Signature:				Page:	S of	5	
SAMPLE #	É DE LO	OCATION		MA	FERIAL		OMMENT
UESW-M-1003-57	V	Vest Wing		Dase	lunanous		
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Turn Around Time 2-4 Hour	San	ne Day	[<u>24 F</u>	lour	2 Day	(3 Day)	5-10 Day
Relinquished By:		Date/Time:		Received By:			Date/Time:
Acto Re-		6-11-2021		the m			6-14-2021 8:50
Relinquished By:		Date/Lime:		Received By:			Date/Jime:

Dedicated to Quality CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Havona Environmental

P.O.Box 35848 Albuquerque, NM 87176 Attn: Cissy Puma Customer Project: Holloman Elementary School (West Wing-Roof) Reference #: CBR21063724 Date: 6/30/2021

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (W	est Wing-Roof)	CA Labs Project #:	CBR21063724
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affe Materi	cted Building al Types

No Asbestos Detected.

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix mi - mica ve - vermiculite ot - other pe - perlite qu - quartz fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer I	ustomer Info: Attn: Cissy Puma	Custom	er Project:	CA Labs Project #:				
Havona E	nviron	ment	al		Holloma	n Elementary School	CBR21063724	
P.O.Box 35	848				(West W	(ing-Roof)		
Albuquerqu	e, NM 8	37176					Date:	6/30/2021
					Turnaro	und Time: 3 day	Samples Received:	6/28/2021
Phone #	505-2	32-953	33				Date Of Sampling:	6/23/2021
Fax #	505-2	56-823	37				Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physica Subsample	Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESW-M- 9A1-61		61-1	Gray Sealant		Y	None Detected		100% qu, ma, ca
HESW-M- 9A2-62		62-1	Gray Sealant		Ŷ	None Detected		100% qu, ma, ca
HESW-M- 9A3-63		63-1	Gray Sealant		Ŷ	None Detected		100% qu, ma, ca
HESW-M- 9B1-64		64-1	Black Felt		Y	None Detected	40% ce	60% qu, bi
HESW-M- 9B2-65		65-1	Black Felt		Y	None Detected	40% ce	60% qu, bi
HESW-M- 9B3-66		66-1	Black Felt		Y	None Detected	40% ce	60% qu, bi
HESW-M- 9C1-67		67-1	Black Tar		Y	None Detected	5% ce	95% qu, ma, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

ve - vermiculite ot -other pe - perlite qu - quartz

Sicher Pintorto Sidney Pinkerton

Analyst

mi - mica

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

pa - palygorskite (clay) Approved Signatories:

Chris Ull

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

ce - cellulose

ka - kaolin (clay)

br - brucite

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials
 Revorable scenario for water separation on vermiculite for possible analysis by another method

 0.
 1% Revorable scenario for water separation on vermiculite for possible analysis by another method

 0.
 1% Revorable scenario for water separation on vermiculite for possible analysis by another method

 0.
 1% Revorable scenario for water separation on vermiculite for possible analysis by another method

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Page 3 of 4

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		Customa Hollomar (West W	er Project: Elementary School ing-Roof)	CA Labs Project #: CBR21063724 Date: 6/30/2021			
Albuquerque, NM 87176							
			Turnaro	und Time: 3 day	Samples Received:	6/28/2021	
Phone #	Phone # 505-232-9533				Date Of Sampling:	6/23/2021	
Fax #	505-2	56-8237	,			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		67-2 I	Brown Fibrous Insulation	Y	None Detected	100% ce	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

Sidney Pinto As Sidney Pinkerton

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Ull

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophylite in association with Fibrous Talc
 7. Contamination suspected from other building materials
 8. Favorable scenario for water separation on vermiculite for possible analysis by another method
 9. < 1% Result point counted positive
 10. TEM analysis suggested

Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

CBR210637284

Phone 505-232-9533 Fax 505-212-0069

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Havona Environmental, Inc. P.O. Box 35848

Albuquerque, NM 87176

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PLM BULK SAMPLE CHAIN OF CUSTODY

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Havona Project Name and Location: Holloman Elementary School (West Wing-R	loof)		Havona C Alamogor	Havona Client: Alamogordo Public Schools			
Holloman Air Force Base			Havona	Havona Comact Information:			7 4029
Alamogordo, NM	Data	Complede 6 12 11	iname: Ci	Name: Cissy Puma Phone: 505-977-4938			
Sampled By: Scott Puma and Junior Fres	quez Date	5ampieu: 0-25-21	Email: <u>n</u>	Email: navonaenyironmentalagyanoo.com			
Sampler's Signature:		CATION	rage;	MATEDIAL			OMMENT
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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Havona Environmental

P.O.Box 35848 Albuquerque, NM 87176

Attn: Cissy Puma

Customer Project:	Holloman Elementary	School (Cafeteria)	
Reference #:	CBR21063357	Date:	6/17/2021

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

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Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

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Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (C	Cafeteria)	CA Labs Project #:	CBR21063357		
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affe Mater	ected Building ial Types		
HESC-M-				Tan and	Green Sealant		
1A2-2	2-1	Tan and Green Sealant	2% Chrysotile	Tan Insul	lation		
HESC-M- 1A3-3	3-1	Green Sealant	2% Chrysotile	White Su White Su Tan Surfa	rfaced Tan Compound rfaced Tan and Green Compo aced Tan Compound		
HESC-T- 3A1-13	13-1	Tan Insulation	7% Chrvsotile	– Brown St Brown ar Brown St	urfaced White Sealant nd Blue Surfaced White Sealar urfaced Tan Sealant		
HESC-T- 3A2-14	14-1	Tan Insulation	7% Chrysotile				
HESC-T- 3A3-15	15-1	Tan Insulation	7% Chrysotile	_			
HESC-M- 4B2-20	20-1	White Surfaced Tan Compound	2% Chrysotile	_			
HESC-M- 2B3-21	21-1	White Surfaced Tan Compound	2% Chrysotile				
HESC-M- 10A1-34	34-1	White Surfaced Tan and Green Compound	3% Chrysotile				

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	
gypsum - gypsum bi - binder	qu - quartz	
or - organic ma - matrix mi - mica ve - vermiculite ot - other		

pa - palygorskite (clay)

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fg - fiberglass

mw - mineral wool wo - wollastinite ta - talc sy - synthetic ce - cellulose br - brucite ka - kaolin (clay)

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project	:	Holloman Elementary School (C	afeteria)	CA Labs Project #:	CBR21063357
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affe Mater	ected Building ial Types
HESC-M-		White Surfaced Tan and Green	00/ 01		
10A2-35	35-1	Compound	3% Chrysotile	-	
HESC-M-		White Surfaced Tan and Green			
10A3-36	36-1	Compound	3% Chrysotile	-	
HESC-M- 10B1-37	37-1	Tan Surfaced Tan Compound	2% Chrysotile	_	
HESC-M- 10B2-38	38-1	Tan Surfaced Tan Compound	2% Chrysotile		
HESC-M- 10B3-39	39-1	Tan Surfaced Tan Compound	2% Chrysotile	_	
HESC-M- 10C2-41	41-1	Brown Surfaced White Sealant	2% Chrysotile	_	
HESC-M- 10C3-42	42-1	Brown Surfaced White Sealant	2% Chrysotile		

HESC-M-10D2-43 43-1 Brown Surfaced White Sealant 2% Chrysotile

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite
gypsum - gypsum bi - binder	qu - quartz
or - organic ma - matrix mi - mica	
ve - vermiculite ot - other	

pa - palygorskite (clay)

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fg - fiberglass

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CA Labs CA Labs, L.L.C.

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (C	Cafeteria)	CA Labs Project #:	CBR21063357
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affe Materi	cted Building al Types

HESC-M- 10D1-44	44-1	Brown and Blue Surfaced White Sealant	3% Chrysotile
HESC-M- 10D3-45	45-1	Brown Surfaced Tan Sealant	3% Chrvsotile

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix mi - mica ve - vermiculite ot - other pe - perlite qu - quartz fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Havona E P.O.Box 35	Info : Environ 848	Attn: <i>menta</i>	Cissy Puma al	Custon Holloma (Cafete	n er Project: an Elementary School ria)	CA Labs Project #: CBR21063357	
Albuquerqu	ie, NM 8	7176				Date:	6/17/2021
				Turnare	ound Time: 3 day	Samples Received:	6/14/2021
Phone #	505-23	32-953	33			Date Of Sampling:	6/10/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	f Homo geneo us (Y/N)	 Asbestos type / calibrated visual estimate percent 	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESC-M-				N/	New Detected		1000/
<u>1A1-1</u>		1-1	Brown Mastic	Ŷ	None Detected		100% qu, bi
HESC-M- 1A2-2		2-1	Tan and Green Sealant	N	2% Chrysotile		98% qu, ma, ca
		2-2	Brown Mastic	Y	None Detected		100% qu, bi
HESC-M- 1A3-3		3-1	Green Sealant	Ŷ	2% Chrysotile		_98% qu, ma, ca
	1.9.1	3-2	Yellow Mastic	Y	None Detected	····	100% qu, bi
HESC-M- 2A1-4		4-1	Blue Floor Tile	Ŷ	None Detected		100% qu, ma, ca
		4-2	Yellow and Brown Mastic	N	None Detected		100% qu, bi
	1	Preparatio	Analysis Method: Interim (40CFR Pa on Method: HCL acid washing for carbonate ba identification of asbesto ca - carbonate mi - mica gypsum - gypsum ve - vermiculite bi - binder ot - other or - organic pe - perlite ma - matrix qu - quartz	rt 763 Appendix sed samples, ci ss types by disp fg - fibergla mw - minera wo - wollast ta - talc sy - synthet	E to Subpart E) / Improved (EPA- emical reduction for organically be ersion attaining / becke line metho ss ce - cellulose al wool br - brucite inite ka - kaolin (clay pa - palygorskit ic	600 / R-93/116) bund components, oil immersion fo d. ') e (clay) Appro	ved Signatories:

Zo Andriampenomanana

Analyst

1, Fire Damage significant fiber damage - reported percentages reliect unaltered fibers
 2. Fire Damage no significant fiber damages effecting fibrous percentages
 3. Actinoitie in association with Vermiculite
 4. Layer not analyzed - attached to previous positive layer and contamination is suspected
 5. Not enough sample to analyze

Senior Analyst Alicia Stretz

Laboratory Director

Chris Williams

Anthophyllite in association with Fibrous Talc
 Anthophyllite in association with Fibrous Talc
 Contramination suspected from other building materials
 A. Favorable scenario for water separation on vermiculite for possible analysis by another method

 .
 <1% Result point counted positive
 </td>

 10. TEM analysis suggested

CA Labs, L.L.C.

Dedicated to Quality

CA Labs

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma		Custon	ner Project:	CA Labs Project #:			
Havona Environmental		Holloma	an Elementary School	CBH21063357			
P.O.Box 35	0848	2		(Calete	na)	Data	6/17/0001
Albuquerque, INIVI 87176				Turner	aund Times 9 day	Date:	6/17/2021
Dh	FOF 000 0	-00		Turnaro	bund time: 5 day	Samples Received:	6/14/2021
Phone #	505-232-9	233				Date Of Sampling:	0/10/2021
Fax #	005-206-8	237 Analysts Phy	sical Description of	Homo	- Ashestos type /	Non-asbestos fiber	Non-fibrous type
Sample #	ment #	Subsample		geneo us (Y/N)	calibrated visual estimate percent	type / percent	/ percent
	4-3	Gray and Wh	ite Plaster	N	None Detected		100% qu, ma, ca
HESC-M-							
2A2-5	5-1	Blue Floor Til	e	Y	None Detected		100% qu, ma, ca
		Mallan Ada alla		N/	New Parala		(000)
	5-2	Yellow Mastic		<u> </u>	None Detected	·····	100% qu, bi
	5-3	White Plaster		Y	None Detected		100% au ma ca
							100 /8 qu, ma, ca
	5-4	Gray Grout		Y	None Detected		100% gu, ma, ca
HESC-M-							
2A3-6	6-1	Blue Floor Til	9	Y	None Detected		100% qu, ma, ca
		V-H- M H					
h	6-2	Yellow Mastic		<u>Y</u>	None Detected		100% qu, bi
	Prepara	Analysis Me tion Method: HCL acid v ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix	thod: Interim (40CFR Part rashing for carbonate base identification of asbestos mi - mica ve - vermiculite ot -other pe - perlite qu - quartz	763 Appendix ed samples, ch types by dispe fg - fiberglas mw - mineral wo - wollasti ta - talc sy - synthetic	E to Subpart E) / Improved (EPA-6 emical reduction for organically bo rstion attaining / becke line method s ce - cellulose l wool br - brucite nite ka - kaolin (clay) pa - palygorskite c	00 / R-93/116) und components, oil immersion fo (clay) Appro	r ved Signatories:
		di di	foreing .				Chris Willing
		Zo Andria	npenomanana			Senior Analyst	Laboratory Director
1. Fire Damage signif	ficant fiber damage - m	A eported percentages reflect u	nalyst naltered fibers		6. Anthonhyllite in association with Fibro	Alicia Stretz	Chris Williams
 Fire Damage no si, Actinolite in associ Layer not analyzed Not enough sample 	gnificant fiber damages ation with Vermiculite I - attached to previous e to analyze	effecting fibrous percentage	s ation is suspected		 Contamination suspected from other b Favorable scenario for water separatio <1% Result point counted positive TEM analysis suggested 	n on vermiculite for possible analysis by	another method

Dedicated to Quality

CA Labs. L.L.C. 12232 Industriplex. Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Havona Environmental P.O.Box 35848		Attn: ament	: Cissy Puma i al	Customer Project: Holloman Elementary School (Cafeteria)		CA Labs Project #: CBR21063357	
Albuquerqu	e, NM 8	87176				Date:	6/17/2021
				Turnaro	ound Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	32-95	33			Date Of Sampling:	6/10/2021
Fax #	505-2	56-82	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESC-M-							
2B1-7		7-1	Blue Floor Tile	Y	None Detected		100% qu, ma, ca
		7-2	Yellow Mastic	Y	None Detected		100% qu, bi
HESC-M- 2B2-8		8-1	Red Floor Tile	Ŷ	None Detected		100% qu, ma, ca
		8-2	Yellow Mastic	Y	None Detected		100% qu, bi
HESC-M- 2B3-9		9-1	White Floor Tile	Ŷ	None Detected		100% gu, ma, ca
		1				ан а	
		9-2	Yellow Mastic	Y	None Detected		100% qu, bi
		9-3	Gray Grout	Ŷ	None Detected		100% qu, ma, ca
			Applysis Method: Interim /4005P Pag	762 Appondix	E to Subpart E) / Improved (EBA (500 / D 00/(16)	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method. fg - fiberglass

ta - talc

wo - wollastinite

sy - synthetic

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

mi - mica ve - vermiculite ot -other pe - perlite au - auartz

ce - cellulose mw - mineral wool br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris While

Laboratory Director

Chris Williams

Equiny . 0

Zo Andriampenomanana

Analyst

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculit
 Layer not analyzed - attached to previous positive layer and contamination is suspected

5. Not enough sample to analyze

Senior Analyst Alicia Stretz

6. Anthophyllite in association with Fibrous Talc 7. Contamination suspected from other building materials

8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs. L.L.C.

Dedicated to Quality

CA Labs

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cis Havona Environmental P.O.Box 35848		Attn: Iment	: Cissy Puma al	Custom Holloma (Cafeter			
Albuquerqu	e, NM 8	37176				Date:	6/17/2021
				Turnaro	ound Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/10/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESC-M- 2C1-10		10-1	Green Flooring	N	None Detected		100% qu, ma, ot, ca
HESC-M-							100% qu, ma, ot,
2C2-11		11-1	Green Flooring	N	None Detected		ca
HESC-M- 2C3-12		12-1	Green Flooring	N	None Detected		100% qu, ma, ot, ca
HESC-T- 3A1-13		13-1	Tan Insulation	Y	7% Chrysotile	10% fg	83% qu, ma, ca
HESC-T-							
3A2-14		14-1	Tan Insulation	Y	7% Chrysotile	10% fg	83% qu, ma, ca
HESC-T-					·		
3A3-15		15-1	I an Insulation	Ŷ	7% Chrysotile	10% fg	83% qu, ma, ca
HESC-S- 4A1-16		16-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate mi - mica gypsum - gypsum ve - vermiculite bi - binder ot -other or - organic pe - perlite

qu - quartz

sing .

Zo Andriampenomanana

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris White

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

ma - matrix

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

- 6. Anthophyllite in association with Fibrous Talc
- 7. Contamination suspected from other building materials 8. Favorable scenario for water separation on vermiculite for possible analysis by another method

9. < 1% Result point counted positive 10. TEM analysis suggested

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn Havona Environmen P.O.Box 35848		Attn: nment	Cissy Puma al	Custom Holloma (Cafeter	er Project: In Elementary School ia)	CA Labs Project #: CBR21063357	
Albuquerqu	e, NM 8	87176				Date:	6/17/2021
				Turnaro	und Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/10/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		16-2	White Compound Beneath Tape	Ŷ	None Detected		100% qu, mi, ca
		16-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESC-S- 4A2-17		17-1	White Surfaced White Compound	Ν	None Detected		100% qu, mi, bi, ca
		17-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESC-S- 4A3-18		18-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		18-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESC-M- 4B1-19		19-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

fg - fiberglass

sy - synthetic

ta - talc

mw - mineral wool

wo - wollastinite

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

Entranger .

Zo Andriampenomanana

Analyst

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ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris William

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

6. Anthophylite in association with Fibrous Talc
 7. Contamination suspected from other building materials
 8. Favorable scenario for water separation on vermiculite for possible analysis by another method
 9. < 1% Result point counted positive
 10. TEM analysis suggested

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Dedicated to Quality

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma		Custom					
Havona E P.O.Box 35	nviror 848	nmenta	al	Holloman Elementary School (Cafeteria)		CBR21063357	
Albuquerqu	e, NM 8	87176				Date:	6/17/2021
				Turnaro	ound Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/10/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESC-M- 4B2-20		20-1	White Surfaced Tan Compound	N	2% Chrysotile	•	98% qu, mi, ma, bi, ca
HESC-M- 2B3-21		21-1	White Surfaced Tan Compound	N	2% Chrysotile		98% qu, mi, ma, bi, ca
HESC-S- 4C1-22		22-1	White Textured Surfacing	N	None Detected		100% qu, mi, bi, ot, ca
HESC-S- 4C2-23		23-1	White Textured Surfacing	N	None Detected		100% qu, mi, bi, ot, ca
		23-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESC-S- 4C3-24		24-1	White Textured Surfacing	N	None Detected		100% qu, mi, bi, ot, ca
		24-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

ve - vermiculite ot -other pe - perlite qu - quartz

Eduiny

Zo Andriampenomanana

Analyst

0

mi - mica

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - celiulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Willing

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Reverable scenario for water separation on vermiculite for possible analysis by another method

 A Result point counted positive

10. TEM analysis suggested

4. Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Havona E P.O.Box 35	Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		Custom Holloma (Cafeter	ner Project: In Elementary School ria)	CA Labs Project #: CBR21063357		
Albuquerqu	e, NM 8	37176				Date:	6/17/2021
Phone #	505-2	32-953	33	Turnaro	ound Time: 3 day	Samples Received: Date Of Sampling:	6/14/2021 6/10/2021
Fax # Sample #	505-2 Com ment	56-823 Layer #	37 Analysts Physical Description o Subsample	if Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Purchase Order #: Non-asbestos fiber type / percent	Non-fibrous type / percent
HESC-S- 4D1-25		25-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESC-S- 4D2-26		26-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESC-S- 4D3-27		27-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESC-M- 5A1-28		28-1	White Covering	Y	None Detected	90% ce	10% qu, bi
		28-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESC-M- 5A2-29		29-1	White Covering	Y	None Detected	90% ce	10% qu, bi
<u></u>		29-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers 2. Fire Damage no significant fiber damages effecting fibrous percentages

ve - vermiculite ot -other pe - perlite qu - quartz

mi - mica

Equiny .

Zo Andriampenomanana

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris William

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method

9. < 1% Result point counted positive 10. TEM analysis suggested

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

3. Actinolite in association with Vermiculite

Dedicated to Quality **CA Labs, L.L.C.** 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer	Info:	Attn:	Cissy Puma	Custom	ner Project:	CA Labs Project #:			
Havona E	nviron	ment	tal	Holloma	an Elementary School	CBR21063357			
P.O.Box 35	848			(Cafeter	ria)				
Albuquerqu	e, NM 8	37176				Date:	6/17/2021		
				Turnard	ound Time: 3 day	Samples Received:	6/14/2021		
Phone #	505-2	32-95	33		·····,	Date Of Sampling	6/10/2021		
Fox #	505 2	56 800	27			Durchass Order #:			
Sample #			Analysts Physical Description	of Homo-	Ashestos type /	Non-ashestos fiber	Non-fibrous type		
Sample #	ment	#	Subsample	geneo us (Y/N)	calibrated visual estimate percent	type / percent	/ percent		
HESC-M-									
5A3-30		30-1	White Covering	Y	None Detected	90% ce	10% qu, bi		
HESC-M-			M/hite Outfooing	N	Nana Detected		100% au bi		
<u>5B1-31</u>		31-1	white Surfacing	<u></u> /N	None Delected		100% qu, bi		
		31-2	Brown Ceiling Tile	Ŷ	None Detected	100% ce	······		
HESC-M- 5B2-32		32-1	White Surfacing	N	None Detected		100% qu, bi		
		32-2	Brown Ceiling Tile	Y	None Detected	100% ce			
HESC-M- 5B3-33		33-1	White Surfacing	N	None Detected	······	100% qu, bi		
		<i>33-2</i>	Brown Ceiling Tile	Ŷ	None Detected	100% ce			
		Preparati	Analysis Method: Interim (40CFR i on Method: HCL acid washing for carbonate identification of asbe ca - carbonate mi - mica gypsum - gypsum ve - vermiculite bi - binder ot - other or - organic pe - perlite ma - matrix qu - quartz	Part 763 Appendix based samples, ch stos types by disp fg - fiberglas mw - minera wo - wollast ta - talc sy - syntheti	E to Subpart E) / Improved (EPA- nemical reduction for organically be ersion attaining / becke line metho ss ce - cellulose al wool br - brucite inite ka - kaolin (clay pa - palygorskit ic	600 / R-93/116) ound components, oil immersion fo id. /) e (clay) Appro	r oved Signatories:		
			Zo Andriampenomanana			Senior Analyst	Laboratory Director		
			Analyst			Alicia Stretz	Chris Williams		
Fire Damage significant fiber damage - reported percentages reflect unaltered fibers Fire Damage no significant fiber damages effecting fibrous percentages Actinolite in association with Vermiculite Layer not analyzed - attached to previous positive layer and contamination is suspected S. Not enough sample to analyze					 Anthophyllite in association with Fibrous Tatc Contamination suspected from other building materials Favorable scenario for water separation on vermiculite for possible analysis by another method <1% Fasult point counted positive TEM analysis suggested 				

Dedicated to Quality CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer I	nfo:	Attn:	Cissy Puma	Custom	er Project:	CA Labs Project #:	
Havona E	nviron	nment	al	Holloma (Cafeter	n Elementary School	CBR21063357	
Albuauerau	040 e. NM 8	87176		(ouroror		Date:	6/17/2021
, insurface, fill of the				Turnaro	und Time: 3 day	Samples Received: Date Of Sampling:	6/14/2021 6/10/2021
Phone # 505-232-9533					·		
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESC-M- 10A1-34		34-1	White Surfaced Tan and Green Compound	N	3% Chrysotile		97% qu, mi, bi, ca
HESC-M-			White Surfaced Tan and Green				97% qu, mi, bi,
10A2-35		35-1	Compound	<u> </u>	3% Chrysotile		ca
		35-2	Gray CMU	Ŷ	None Detected		100% qu, ma, ca
HESC-M- 10A3-36		36-1	White Surfaced Tan and Green Compound	N	3% Chrysotile		97% qu, mi, bi, ca
							000/
HESC-M- 10B1-37		37-1	Tan Surfaced Tan Compound	Y	2% Chrysotile		98% qu, mi, bi, ca
		37-2	Gray Plaster	Ŷ	None Detected		100% qu, ma, ca
HESC-M- 10B2-38		38-1	Tan Surfaced Tan Compound	Y	2% Chrysotile		98% qu, mi, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

mi - mica

ot -other

pe - perlite

qu - quartz

Equiny .

Zo Andriampenomanana

Analyst

1

ve - vermiculite

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Chris While

Approved Signatories:

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials

8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive

< 1% Hesult point counte
 TEM analysis suggested

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze
Dedicated to Quality

CA Labs. L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn		Attn:	Cissy Puma	Custom	er Project:	CA Labs Project #:		
Havona E	nviron 848	menta	al	Holloma (Cafeter	in Elementary School ia)	CBR21063357		
Albuquerqu	e, NM 8	37176				Date:	6/17/2021	
				Turnaro	ound Time: 3 day	Samples Received:	6/14/2021	
Phone #	505-23	32-953	33			Date Of Sampling:	6/10/2021	
Fax #	505-25	56-823	37			Purchase Order #:		
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent	
		38-2	Gray Plaster	Ŷ	None Detected		100% qu, ma, ca	
HESC-M- 10B3-39		39-1	Tan Surfaced Tan Compound	Y	2% Chrysotile		98% qu, mi, bi, ca	
		39-2	Gray Plaster	Ŷ	None Detected		100% qu, ma, ca	
HESC-M- 10C1-40		40-1	White Sealant	Ŷ	None Detected		100% qu, ma, ca	
HESC-M- 10C2-41		41-1	Brown Surfaced White Sealant	N	2% Chrysotile		98% qu, ma, bi, ca	
HESC-M- 10C3-42		42-1	Brown Surfaced White Sealant	N	2% Chrysotile		98% qu, ma, bi, ca	
HESC-M- 10D2-43		43-1	Brown Surfaced White Sealant	N	2% Chrysotile		98% qu, ma, bi, ca	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

ve - vermiculite ot -other pe - perlite qu - quartz

mi - mica

Equiny .

Zo Andriampenomanana Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Will

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc 7. Contamination suspected from other building materials

8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

2. Fire Damage on significant fiber damage - reported percentages resolution fiber of the significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn		Attn:	: Cissy Puma	Custom	er Project:	CA Labs Project #:	
Havona E P.O.Box 35	nviror 848	nment	al	Holloma (Cafeter	n Elementary School ia)	CBR21063357	
Albuquerqu	e, NM 8	87176				Date:	6/17/2021
				Turnaro	ound Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/10/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESC-M- 10D1-44		44-1	Brown and Blue Surfaced White Sealant	N	3% Chrysotile		97% qu, ma, bi, ca
HESC-M- 10D3-45		45-1	Brown Surfaced Tan Sealant	N	3% Chrysotile		97% qu, ma, bi, ca
HESC-S- 10E1-46		46-1	Tan Surfaced Tan Compound	N	None Detected		100% qu, ma, bi, ca
	<u></u>	46-2	Gray Plaster	Ŷ	None Detected		100% qu, ma, ca
HESC-S- 10E2-47		47-1	Tan Surfaced Tan Compound	N	None Detected		100% qu, ma, bi, ca
		47-2	Gray Plaster	Ŷ	None Detected		100% qu, ma, ca
HESC-S- 10E3-48		48-1	Tan Surfaced Tan Compound	N	None Detected		100% qu, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

fing .

Zo Andriampenomanana

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - taic sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Will

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method

9. < 1% Result point counted positive 10. TEM analysis suggested

 Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite
 Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		Custom Holloma (Cafeter	ner Project: In Elementary School ria)	CA Labs Project #: CBR21063357			
Albuquerque	e, NM 8	37176				Date:	6/17/2021
				Turnaro	ound Time: 3 day	Samples Received:	6/14/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/10/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESC-M- 10F1-49		49-1	Gray Sealant	Ŷ	None Detected		100% qu, ma, ca
HESC-M- 10F2-50		50-1	Gray Sealant	Ŷ	None Detected		100% qu, ma, ca
HESC-M- 10F3-51		51-1	Gray Sealant	Ŷ	None Detected		100% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

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Analyst

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages offecting fibrous percentages
 Actinolite in association with Vermiculite

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Senior Analyst Alicia Stretz

Approved Signatories:

Chris William

Laboratory Director

Chris Williams

ce - cellulose

ka - kaolin (clay)

pa - palygorskite (clay)

br - brucite

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method

9. < 1% Result point counted positive

10. TEM analysis suggested

(BRZ1063357

Havona Environmental, Inc. P.O. Box 35848 Albuquerque, NM 87176 Phone 505-232-9533 Fax 505-212-0069

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:			Hayona Clienti				
Holloman Elementary School (Cafeteria)			Alamogordo Publi	c Schools			
Holloman Air Force Base			Havona Contact Information:				
Alamogordo, NM	D-4-0		Name: Cissy Puma Phone: 505-977-4938				
Sampled By: Scott Puma and Junior Fres	quez Date S	ampied: 6-10-21	Email: navonaen	Email: havonaenvironmental@yanoo.com			
Sampler's Signature: Aud, K		CATION	Page:	/ OI		MMENT	
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Reinquisited By:		DATETTALE	necosea by			MARCELINES, STREET, ST	

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Phone 505-232-9533

Fax 505-212-0069

Havona Environmental, Inc. P.O. Box 35848

Albuquerque, NM 87176

havonaenvironmentai

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PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:					
Holloman Elementary School (Cafeteria)				Alamogordo Publi	c Schools	and the second			
Holloman Air Force Base				Havona Contact l					
Alamogordo, NM				Name: Cissy Puma	Phone: 505-977	-4938			
Sampled By: Scott Puma and Junior Fresh	quez Date	Sampled: 6-1	0-2021	Email: havonaenvironmental@yahoo.com					
Sampler's Signature: Acett R	SATE COMPANY AND A COMPANY AND A COMPANY	1	E.C. Markets and Providence of the	Page:	2 of	4			
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Relinguished By:		Date/Time:		Received By:			Date/Time:		
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Havona Environmental, Inc. P.O. Box 35848 Albuquerque, NM 87176 Phone 505-232-9533 Fax 505-212-0069

to the grand structure and lating		PLM BU	LK SAMPLE (CHAIN OF CUSTO	DY	Albu	querque, NM 87176	
Hayona Project Name and Location:				Havona Client:				
Holloman Elementary School (Cafeteria)				Alamogordo Publi	c Schools			PARTY CONTRACTOR OF A CARD AND A CARD AND A CARD AND A CARD A
Holloman Air Force Base			· .	Havona Contact Information:				
Alamogordo, NMi	Date	Sampled: 1	-	Fmail: havonaen	a vironmental@	vaboo com	FIIORE: 505-977	-4930
Samplet By: Scott I and and Sumor Presqu		omprour 6	(c)	Page:	vironinentai(co	3 of	:4	
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Phone 505-232-9533

Fax 505-212-0069

Havona Environmental, Inc.

Albuquerque, NM 87176

P.O. Box 35848

PLM BULK SAMPLE CHAIN OF CUSTODY

Hayona Project Name and Location:				Havona Client:				
Holloman Elementary School (Cafeteria)				Alamogordo Public Schools				
Holloman Air Force Base				Havona Contact	Information:			
Alamogordo, NM				Name: Cissy Puma Phone: 505-977-4938				
Sampled By: Scott Puma and Junior Fres	quez Date	Sampled: 6-10-	21	Email: havonaen	vironmental@yahoo.com	1		
Sampler's Signature: Aut R		-		Page: 4 of 4				
SAMPLE#	Letter L	OCATION		MA	TERIAL	C	JMMENT	
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Attn: Cissv Puma

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Havona Environmental

P.O.Box 35848 Albuquerque, NM 87176 Customer Project: Holloman Elementary School (Caféteria-Roof) Reference #: CBR21063725 Date: 6/30/2021

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

CA Labs CA Labs, 12232 Industri

Dedicated to Quality CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Part Part Manual Control

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Overview of Project Sample Material Containing Asbestos

Customer Project	:	Holloman Elementary School	(Cafeteria-Roof)	CA Labs Project #:	CBR21063725
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affe Mater	ected Building ial Types
HESC-M- 9A1-52	52-1	Silver Surfaced Black Tar	5% Chrysotile	Silver Su Gray Tar	rfaced Black Tar
HESC-M- 9A2-53	53-1	Gray Tar	5% Chrysotile	_	
HESC-M- 9A3-54	54-1	Silver Surfaced Black Tar	10% Chrysotile	-	
HESC-M- 9B1-55	55-1	Silver Surfaced Black Tar	5% Chrysotile	_	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

pe - perlite fg - fiberglass ca - carbonate qu - quartz mw - mineral wool gypsum - gypsum bi - binder wo - wollastinite or - organic ta - talc sy - synthetic ce - cellulose ma - matrix mi - mica br - brucite ve - vermiculite ka - kaolin (clay) ot - other

pa - palygorskite (clay)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer I Havona El P.O.Box 358	Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848			Custom Holloma (Cafeter	ler Project: In Elementary School ia-Roof)	CA Labs Project #: CBR21063725	
Albuquerque	e, NM 8	37176				Date:	6/30/2021 6/28/2021 6/23/2021
Phone #	505-2	32-953	33	Turnaro	ound Time: 3 day	Samples Received: Date Of Sampling: Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESC-M- 9A1-52		52-1	Silver Surfaced Black Tar	N	5% Chrysotile		95% qu, ma, bi
HESC-M- 9A2-53		53-1	Gray Tar	Y	5% Chrysotile		95% qu, ma, bi
HESC-M- 9A3-54		54-1	Silver Surfaced Black Tar	N	10% Chrysotile		90% qu, ma, bi
HESC-M- 9B1-55		55-1	Silver Surfaced Black Tar	N	5% Chrysotile		95% qu, ma, bi
HESC-M- 9B2-56		56-1	Black Tar	Y	None Detected		100% qu, bi
HESC-M- 9B3-57		57-1	Gray and Black Tar	Y	None Detected	5% ce	95% qu, bi
HESC-M- 9C1-58		58-1	Black Tar	Ŷ	None Detected	3% ce	97% qu, ma, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ta - talc

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

ve - vermiculite ot -other pe - perlite qu - quartz

mi - mica

Sidney Pintoso Sidney Pinkerton

Analyst

fg - fiberglass mw - mineral wool wo - woliastinite sy - synthetic

br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Till Laboratory Director

Chris Williams

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Senior Analyst Alicia Stretz

ce - cellulose

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials

Favorable scenario for water separation on vermiculite for possible analysis by another method
 <1% Result point counted positive
 TEM analysis suggested

 Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite
 Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer I Havona E P.O.Box 35	Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848 Nbuquerque, NM 87176				ner Project: an Elementary School ria-Roof)	CA Labs Project #: CBR21063725	
Albuquerqu	e, NM 8	87176				Date:	6/30/2021
				Turnard	ound Time: 3 day	Samples Received:	6/28/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/23/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		58-2	Gray Insulation	Y	None Detected	2% fg	98% qu, ma, ca
HESC-M- 9C2-59		59-1	Various Black Tar and Felt Layers	N	None Detected	10% fg	90% qu, ma, bi
		59-2	Brown Fibrous Insulation	Ŷ	None Detected	100% ce	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

Sidney Pintos Sidney Pinkerton

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - taic sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Will

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Tale

Antiophyline in association with relocus rate
 A contamination suspocted from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 1% Result point counted positive
 TEM analysis suggested

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

CBR21063725

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Havona Environmental, Inc. P.O. Box 35848 Albuquerque, NM 87176

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Phone 505-232-9533 Fax 505-212-0069

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PLM BULK SAMPLE CHAIN OF CUSTODY

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Holloman Air Force Rase				Havona Contact Information:					
Alamogordo NM				Name: Cissy Puma Phone: 505-977-4938					-4938
Sampled By: Scott Puma and Junior Free	quez Date	Sampled: 6-23-2	1	Email: havonaenvironmental@vahoo.com					
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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Havona Environmental P.O.Box 35848

Albuquerque, NM 87176

Attn: Cissy Puma

Customer Project:Holloman Elementary School (East Wing)Reference #:CBR21063720Date:6/30/2021

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

Oualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to sugment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

CA Labs CA Labs, L.L.C.

Dedicated to Quality 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (East Wing)	CA Labs Project #: CBR21063720
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
HESE-M-				Green Floor Tile
2A1-10	10-1	Green Floor Tile	6% Chrysotile	Black Mastic
HESE-M-				Tan Floor Tile Tan Sealant
2A2-11	11-1	Green Floor Tile	6% Chrysotile	Tan Surfaced Tan Compound
				Gray Sealant Gray Transite
	11-2	Black Mastic	3% Chrysotile	_
HESE-M- 2B1-12	12-1	Tan Floor Tile	6% Chrysotile	_
	12-2	Black Mastic	5% Chrysotile	
HESE-M- 2B2-13	13-1	Tan Floor Tile	6% Chrysotile	_
	13-2	Black Mastic	5% Chrysotile	
HESE-M- 2B3-14	14-1	Tan Floor Tile	6% Chrysotile	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix bi - mica	pe - perlite qu - quartz	fg - fiberglass mw - mineral wool wo - wollastinite ta - taic sy - synthetic ce - cellulosa	pa - palygorskite (clay)
or - organic		la - laic	
ma - matrix mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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_____ Los

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project	t:	Holloman Elementary School (East Wing)	CA Labs Project #: CBR21063720			
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affe Mater	ected Building ial Types		
	14-2	Black Mastic	5% Chrysotile	_			
HESE-M-	10.1	Top Floor Tile	2º/ Obrucatila				
201-18	18-1		5% Chrysolile	-			
	18-2	Black Mastic	5% Chrysotile	_			
HESE-M- 2D2-19	19-1	Tan Floor Tile	3% Chrysotile	_			
	19-2	Black Mastic	5% Chrysotile	_			
HESE-M- 2D3-20	20-1	Tan Floor Tile	3% Chrysotile	_			
	20-2	Black Mastic	5% Chrysotile	_			
HESE-M- 10D1-74	74-1	Tan Sealant	3% Chrysotile				

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix mi - mica ve - vermiculite ot - other	pe - perlite qu - quartz	fg - fiberglass mw - mineral wool wo - wollastinite ta - taic sy - synthetic ce - ceilulose br - brucite ka - kaolin (clay)	pa - palygorskite (clay)
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CA Labs $\frac{c}{t}$

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (East Wing)	CA Labs Project #:	CBR21063720
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affe Mater	ected Building ial Types
HESE-M-					
10D2-75	75-1	Tan Sealant	3% Chrysotile	_	
HESE-M- 10D3-76	76-1	Tan Sealant	3% Chrysotile		
100070		, an oblight	ere emjeente		
HESE-M- 10F1-80	80-1	Tan Surfaced Tan Compound	2% Chrysotile	_	
HESE-M-		T 0. (02/ 01		
10F2-81	81-1	Tan Surfaced Tan Compound	2% Chrysotile	-	
HESE-M- 10F3-82	82-1	Tan Surfaced Tan Compound	2% Chrysotile	_	
HESE-M- 1011-89	89-1	Gray Sealant	4% Chrysotile		,
HESE-M- 1012-90	90-1	Gray Sealant	4% Chrysotile	_	
HESE-M- 10J1-91	91-1	Gray Transite	15% Chrysotile	-	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate pe - periite gypsum - gypsum qu - quartz bi - binder or - organic ma - matrix mi - mica ve - vermiculite ot - other	fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic ce - celluiose br - brucite ka - kaolin (clay)	pa - palygorskite (clay)
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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma		Custom	ner Project:	CA Labs Project #:			
P.O.Box 35	Enviror 5848	nment	ai	(East W	ing)	GBH21003720	
Albuquerqu	ue, NM 8	87176				Date:	6/30/2021
				Turnarc	ound Time: 3 day	Samples Received:	6/28/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/23/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com _ ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	 Asbestos type / calibrated visual estimate percent 	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-M-			Durana Mantin	V	Nana Datastad	29/ wo	09% au hi
1A1-1		1-1	Brown Mastic	Ŷ	None Detected	2% W0	98% qu, bi
HESE-M-		2.1	Brown Mastic	V	None Detected	2% WO	98% au bi
TAZ-2		2-1	BIOWITWASIIC		None Delected	278 ₩0	- 30/8 qu, bi
HESE-M- 1A3-3		3-1	Yellow Mastic	Y	None Detected		100% qu, bi
HESE-M- 1B1-4		4-1	Yellow Mastic	Y	None Detected		100% qu, bi
HESE-M- 1B2-5		5-1	Yellow Mastic	Y	None Detected	•	100% qu, bi
HESE-M- 1B3-6		6-1	Yellow Mastic	Y	None Detected	······································	100% qu, bi
HESE-M- 1C1-7		7-1	Gray Ceiling Tile	Y	None Detected	55% fg	45% qu, pe, ma

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method. fg - fiberglass

mw - mineral wool

wo - wollastinite

sy - synthetic

ta - talc

ca - carbonate mi - mica gypsum - gypsum ve - vermiculite bl - binder ot -other or - organic pe - perlite ma - matrix qu - quartz

Sichney PinterAs

Sidney Pinkerton

Analyst

Fire Damage significant fiber damage - reported percontages reflect unaltered fibers
 Z. Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite
 Lever not analyzed - attached to previous positive layer and contamination is suspected

5. Not enough sample to analyze

Second to the second of the second sec

ce - cellulose

ka - kaolin (clay)

pa - palygorskite (clay)

br - brucite

10. TEM analysis suggested

Senior Analyst Alicia Stretz Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials

Chris Williams

Chris Will

Laboratory Director

Approved Signatories:

CA Labs, L.L.C.

Dedicated to Quality

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma		Customer Project:		CA Labs Project #:			
Havona E	nviron 848	ment	al	Holloma (East W	In Elementary School	CBR21063720	
Albuquerqu	ie, NM 8	37176				Date:	6/30/2021
				Turnaro	ound Time: 3 day	Samples Received:	6/28/2021
Phone #	505-2	32-953	33	-	,	Date Of Sampling:	6/23/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		7-2	Brown Mastic	Y	None Detected		100% qu, bi
HESE-M-							
1C2-8		8-1	Gray Ceiling Tile	Ŷ	None Detected	55% fg	45% qu, pe, ma
		<i>8-2</i>	Brown Mastic	Y	None Detected		100% qu, bi
HESE-M- 1C3-9		9 -1	Gray Ceiling Tile	Ŷ	None Detected	55% fg	45% gu, pe, ma
		9-2	Brown Mastic	Ŷ	None Detected	and a second second	100% qu, bi
HESE-M-				V			0.40/
2A1-10		10-1	Green Floor Tile	Ŷ	0% Unrysolile		94% qu, ma, ca
		10.0	Plack Mantin	V	None Detected		100% au bi
		10-2	DIAUN WASHU	1	None Delecieu		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method. fg - fiberglass

mw - mineral wool

wo - wollastinite

sy - synthetic

ta - talc

ca - carbonate mi - mica ve - vermiculite gypsum - gypsum bi - binder ot -other or - organic pe - perlite ma - matrix

qu - quartz Sidney Pintorto

Sidney Pinkerton

Analyst

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite
 Layer not analyzed - attached to previous positive layer and contamination is suspected

5. Not enough sample to analyze

pa - palygorskite (clay)

Approved Signatories:

Chris While

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

ce - cellulose

ka - kaolin (clay)

br - brucite

Anthophyliite in association with Fibrous Talc
 Contamination suspected from other building materials
 Revorable scenario for water separation on vermiculite for possible analysis by another method

 Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method

 Contamination suspected from other building materials

 Contamination of the scenario for water separation on vermiculite for possible analysis by another method

 Contamination of the scenario for water separation on vermiculite for possible analysis by another method

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O. Box 35848		Attn:	: Cissy Puma	Customer Project:		CA Labs Project #:	
		Holloma (East W	In Elementary School ing)	CBR21063720			
Albuquerqu	e, NM	87176				Date:	6/30/2021
				Turnaro	ound Time: 3 day	Samples Received:	6/28/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/23/2021
Fax #	505-2	256-823	37	l la ma		Purchase Order #:	Non Observe to an
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	geneo us (Y/N)	calibrated visual estimate percent	type / percent	/ percent
HESE-M-							
2A2-11		11-1	Green Floor Tile	Y	6% Chrysotile		94% qu, ma, ca
	7	11-2	Black Mastic	Ŷ	3% Chrysotile		97% qu, ma, bi
							· · · · · · · · · · · · · · · · · · ·
2B1-12		12-1	Tan Floor Tile	Y	6% Chrysotile		94% qu, ma, ca
		12-2	Black Mastic	Y	5% Chrysotile		95% qu, bi
HESE-M-							
2B2-13		13-1	Tan Floor Tile	Ŷ	6% Chrysotile		94% qu, ma, ca
		13-2	Black Mastic	Y	5% Chrysotile		95% qu, bi
HESE-M-			T	V			0.40/
283-14		14-1	I an Floor I lie	Ŷ	6% Chrysotile	A.0	94% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method. fg - fiberglass

ca - carbonate mi - mica gypsum - gypsum ve - vermiculite bi - binder ot -other or - organic ma - matrix

pe - perlite au - auartz

mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Will Laboratory Director

Chris Williams

Sidney Pinkerton

Analyst

Sidney Pintorto

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Senior Analyst Alicia Stretz

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Revarable scenario for water separation on vermiculite for possible analysis by another method
 S. < 1% Result point counted positive

10. TEM analysis suggested

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CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental		Custom Holloma	er Project: In Elementary School	CA Labs Project #: CBR21063720			
P.O.Box 35	848			(East w	ing)		
Albuquerqu	ie, NM i	87176				Date:	6/30/2021
				Turnarc	ound Time: 3 day	Samples Received:	6/28/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/23/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		14-2	Black Mastic	Ŷ	5% Chrysotile		95% qu, bi
HESE-M- 2C1-15		15-1	White Floor Tile	Ŷ	None Detected		100% qu, ca
		15-2	Yellow Mastic	Ŷ	None Detected		100% qu, bi
HESE-M- 2C2-16		16-1	White Floor Tile	Y	None Detected		100% qu, ca
		16-2	Yellow Mastic	Ŷ	None Detected		100% qu, bi
HESE-M- 2C3-17		17-1	White Floor Tile	Y	None Detected		100% qu, ca
		17-2	Tan Mastic	Y	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermio
bi - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quartz

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers 2. Fire Damage no significant fiber damages effecting fibrous percentages

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

vermiculite

Sidney PinterAs Sidney Pinkerton

Analyst

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris While

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method

9. < 1% Result point counted positive 10. TEM analysis suggested

 Actinolite in association with Vermiculite
 Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Page 8 of 24

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		Custom	ier Project:	CA Labs Project #:			
		Holloma	an Elementary School	CBR21063720			
		(East W	'ing)				
Albuquerqu	e, NM 8	37176				Date:	6/30/2021
				Turnaro	ound Time: 3 day	Samples Received:	6/28/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/23/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-M- 2D1-18		18-1	Tan Floor Tile	Ŷ	3% Chrysotile		97% gu, ma, ca
							0.50/
		18-2	Black Mastic	Ŷ	5% Chrysotile		95% qu, bi
HESE-M- 2D2-19		19-1	Tan Floor Tile	Y	3% Chrysotile		97% qu, ma, ca
		19-2	Black Mastic	Ŷ	5% Chrysotile		95% qu, bi
HESE-M- 2D3-20		20-1	Tan Floor Tile	Y	3% Chrysotile		97% qu, ma, ca
		20-2	Black Mastic	Ŷ	5% Chrysotile		95% qu, bi
HESE-T-		21-1	White Sealant on Mesh	N	None Detected	10% ce	90% qu, ma, ca

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermiculite
bi - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quartz

Sidney Pinto As Sidney Pinkerton

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Willing

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials

Contamination subpected from other building interents
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 <1% Result point counted positive
 TEM analysis suggested

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

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CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Havona Environmenta P.O.Box 35848		Attn:	Cissy Puma	Customer Project:		CA Labs Project #:	
		nment	al	Holloma (East W	In Elementary School ing)	CBR21063720	
Albuquerqu	e, NM	87176				Date:	6/30/2021
				Turnaro	ound Time: 3 day	Samples Received:	6/28/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/23/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		21-2	Tan Insulation	Y	None Detected	20% fg	80% qu, ma, ca
HESE-T-		00.1	White Coolant on Mach		None Detected	10% 00	00% au ma aa
382-22		22-1	White Sealaht on Mesh		None Delected	1078 CE	50 % qu, ma, ca
			and the state of	V	News Data stad	000/ 6-	000/
		22-2	Tan Insulation	Ŷ	None Detected	20% fg	80% qu, ma, ca
HESE-T- 3A3-23		23-1	White Sealant on Mesh	N	None Detected	10% ce	90% gu, ma, ca
0/10/20							
		23-2	Tan Insulation	Y	None Detected	20% fg	80% qu, ma, ca
HESE-S- 4A1-24		24-1	White Surfacing	Y	None Detected		100% qu, bi
						·	
		24-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

mi - mica ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

ve - vermiculite ot -other pe - perlite au - quartz

Sidney Pinto Ao

Sidney Pinkerton

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Willing

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 S. 4 TW Result point counted positive

10. TEM analysis suggested

 Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		: Cissy Puma	Customer Project:		CA Labs Project #:		
		Holloma (East W	in Elementary School ing)	CBR21063720			
Albuquerqu	ue, NM 8	87176				Date:	6/30/2021
Phone #	505-2	232-953	33	Turnaro	ound Time: 3 day	Samples Received: Date Of Sampling:	6/28/2021 6/23/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-S-							
4A2-25		25-1	White Surfacing	Ŷ	None Detected	the day of the second	100% qu, bi
		25-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-S- 4A3-26		26-1	White Surfacing	Ŷ	None Detected		100% qu, bi
		26-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-M- 4B1-27		27-1	White Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca
HESE-M- 4B2-28		28-1	White Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca
HESE-M- 4B3-29		29-1	White Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermiculite
bi - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quartz

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Will Laboratory Director

Chris Williams

Sidney PintorAs Sidney Pinkerton

Analyst

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Senior Analyst Alicia Stretz

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 S. Favorable scenario for water separation on vermiculite for possible analysis by another method

 < 1% Result point counted positive

10. TEM analysis suggested

Dedicated to Quality

CA Labs. L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O. Box 35848		Attn:	Cissy Puma	Custom	er Project:	CA Labs Project #:	
		Holloman Elementary School (East Wing)		CBR21063720			
Albuquerqu	e, NM 8	87176				Date:	6/30/2021
	,			Turnaro	und Time: 3 day	Samples Received:	6/28/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/23/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-S- 4C1-30		30-1	Tan Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		30-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-S- 4C2-31		31-1	Tan Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		31-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-S- 4C3-32		32-1	Tan Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		32-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-M- 4D1-33		33-1	Tan Surfaced White Compound	N	None Detected	- 14/200	100% qu, mi, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ta - taic

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermio
oi - binder	ot -other
or - organic	pe - perlite
na - matrix	qu - quartz

ve - vermiculite ot -other oe - perlite qu - quartz

Sidney Pinto Ao Sidney Pinkerton

Analyst

fg - fiberglass ce - cellulose mw - mineral wool br - brucite wo - wollastinite ka - kaolin (clay) pa - palygorskite (clay) sy - synthetic

Approved Signatories:

Chris White

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite
 Layer not analyzed - attached to previous positive layer and contamination is suspected

Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 1% Result point counted positive
 10. TEM analysis suggested

5. Not enough sample to analyze

Dedicated to Quality

CA Labs. L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		Attn:	Cissy Puma	Customer Project:		CA Labs Project #:		
		al	Holloman Elementary School (East Wing)		CBR21063720			
Albuquerqu	e, NM	87176	_			Date:	6/30/2021	
				Turnaro	und Time: 3 day	Samples Received:	6/28/2021	
Phone #	505-2	232-953	33		-	Date Of Sampling:	6/23/2021	
Fax #	505-2	256-823	37			Purchase Order #:		
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent	
HESE-M- 4D2-34		34-1	Tan Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca	
HESE-M- 4D3-35		35-1	Tan Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca	
HESE-S- 4E1-36		36-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca	
		36-2	Tan Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca	
		36-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy	
HESE-S- 4E2-37		37-1	White Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca	
		37-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermic
bi - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quartz

Sidney Pinto As

Sidney Pinkerton

Analyst

fg - fiberglass vermiculite mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Willing

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Favorable scenario for water separation on verniculite for possible analysis by another method
 C The securit point counted positive

10. TEM analysis suggested

Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

Dedicated to Quality

CA Labs. L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental		Customer Project: Holloman Elementary School		CA Labs Project #:			
				CBR21063720			
P.O.Box 35	848	07170		(East W	ing)		0.000.0000.0
Albuquerqu	ie, NM i	8/1/6				Date:	6/30/2021
				Turnaro	ound Time: 3 day	Samples Received:	6/28/2021
Phone #	505-2	232-953	33			Date Of Sampling:	6/23/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-S-							100% qu, ma, bi,
4E3-38		38-1	Tan Surfaced Tan Plaster	N	None Detected		са
<u></u>		38-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-S- 4E4-39		39-1	Tan Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
* 's.		<i>39-2</i>	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-S- 4E5-40		40-1	Tan Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
		40-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-S- 4G1-41		41-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

a - carbonate	mi - mica
ypsum - gypsum	ve - vermiculite
oi - binder	ot -other
or - organic	pe - perlite
na - matrix	gu - quartz

Sidney Pintoso

Sidney Pinkerton

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Willin

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 < 1% Result point counted positive

10. TEM analysis suggested

 Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		Custom	er Project:	CA Labs Project #:			
		Holloma (East W	n Elementary School	CBR21063720			
Albuquerqu	le, NM	87176				Date:	6/30/2021
				Turnaro	und Time: 3 day	Samples Received:	6/28/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/23/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-S-							100% qu, ma, bi,
4G2-42		42-1	White Surfaced Gray Plaster	N	None Detected		са
HESE-S- 4G3-43		43-1	white Surfaced Grav Plaster	N	None Detected		100% qu, ma, bi, ca
HESE-S- 4G4-44		44-1	White Surfaced Gray Plaster	N	None Detected	,	100% qu, ma, bi, ca
HESE-S- 4G5-45		45-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESE-S- 4G6-46		46-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESE-S- 4G7-47		47-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESE-M- 5A1-48		48-1	White Surfacing	Y	None Detected	2% wo	98% qu, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermic
bi - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quartz

fg - fiberglass vermiculite mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris While Laboratory Director

Chris Williams

Sidney Pinto As Sidney Pinkerton

Analyst

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Senior Analyst Alicia Stretz

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 S. < 1% Result point counted positive

10. TEM analysis suggested

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848		Attn:	: Cissy Puma	Custom	er Project:	CA Labs Project #:		
		Holloma (East W	an Elementary School	CBR21063720				
Albuquerqu	le, NM	87176				Date:	6/30/2021	
				Turnarc	ound Time: 3 day	Samples Received:	6/28/2021	
Phone #	505-2	32-953	33			Date Of Sampling:	6/23/2021	
Fax #	505-2	256-823	37			Purchase Order #:		
Sample #	Com ment	Layer #	Analysts Physical Description o Subsample	f Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent	
			an yan ang ang ang ang ang ang ang ang ang a				<u> </u>	
		48-2	White Ceiling Tile	Y	None Detected	55% fg	45% qu, pe, ma	
HESE-M- 5A2-49		49-1	White Surfacing	Ŷ	None Detected	2% wo	98% gu, bi, ca	
		49-2	White Ceiling Tile	Y	None Detected	55% fg	45% qu, pe, ma	
HESE-M-		E0 1	White Surfacing	V	None Detected	2% >>>	98% au bi co	
5A3-50		50-1	White Sunacing	1	None Delected	276 WO	90% qu, bi, ca	
		50-2	White Ceiling Tile	Y	None Detected	55% fg	45% qu, pe, ma	
HESE-M-					,			
5B1-51		51-1	White Surfacing	Y	None Detected		100% qu, bi, ca	
		54.0	Top Colling Tile	V	None Detected	15% fg	450/ all no 555	
		51-2	ran Ceiling Tile	r	None Delected	40% CE	45% qu, pe, ma	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

ve - vermiculite ot -other pe - perlite qu - quartz

Sidney Pintorto Sidney Pinkerton

Analyst

mi - mica

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Willing

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Revorable scenario for water separation on vermiculite for possible analysis by another method
 S. < 1% Result point counted positive

10. TEM analysis suggested

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyzo

Dedicated to Quality

CA Labs. L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma		Custom	ner Project:	CA Labs Project #:			
Havona Environmental			Holloma	an Elementary School	CBR21063720		
Albuquerque, NM 87176				(Last W	119)	Deter	6/20/2021
				-	devi	Date:	6/30/2021
				Turnard	ound lime: 3 day	Samples Received:	6/28/2021
Phone #	505-2	232-953	33			Date Of Sampling:	6/23/2021
Fax #	505-2	256-823	37			Purchase Order #:	N. Aller Aller
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	geneo us (Y/N)	Aspestos type / calibrated visual estimate percent	Non-asbestos Nber type / percent	/ percent
						•	
HESE-M-							1000/
5B2-52		52-1	White Surfacing	Ŷ	None Detected		100% qu, bi, ca
				.,		15% fg	450/
		52-2	Tan Ceiling Tile	Ŷ	None Detected	40% ce	45% qu, pe, ma
HESE-M-				.,			1000/ 11
5B3-53		53-1	White Surfacing	<u> </u>	None Detected		100% qu, bi, ca
						15% fg	
		53-2	Tan Ceiling Tile	Ŷ	None Detected	40% ce	45% qu, pe, ma
HESE-M-							
5C1-54		54-1	White Surfacing	Y	None Detected		100% qu, bi, ca
						1. S.	
						15% fg	
		54-2	Tan Ceiling Tile	Y	None Detected	40% ce	45% qu, pe, ma
HESE-M-							
5C2-55		55-1	White Surfacing	Y	None Detected		100% qu, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate mi - mica gypsum - gypsum bi - binder or - organic ma - matrix

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Sidney Rinkards

Sidney Pinkerton

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Will Laboratory Director

Chris Williams

Senior Analyst

Alicia Stretz

Anthophyliite in association with Fibrous Tatc
 Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method

9. < 1% Result point counted positive 10. TEM analysis suggested

5. Not enough sample to analyze

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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 Actinolite in association with Vermiculite

Administration and solution with vormound
 Layer not analyzed - attached to previous positive layer and contamination is suspected

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma				Custom	er Project:	CA Labs Project #:		
Havona Environmental P.O.Box 35848 Albuquerque, NM 87176				Holloma (East Wi	n Elementary School	CBR21063720		
				(07	Date	6/30/2021	
				Turnaro	und Time: 3 day	Samples Received:	6/28/2021	
Phone #	505-232	-953	3		unu miler,	Date Of Sampling	6/23/2021	
Fax #	505-256	5-823	7			Purchase Order #:	0,20,2021	
Sample #	Com L ment	_ayer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent	
		55-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma	
HESE-M-				N/	No. But the			
503-56		56-1	White Surfacing	Ŷ	None Detected		100% qu, bi, ca	
		56-2	Tan Ceiling Tile	Ŷ	None Detected	15% fg 40% ce	45% gu, pe, ma	
HESE-M- 9A1-57		57-1	Various Black Tar and Felt	N	None Detected	30% fg	70% gu bi	
0/11/0/								
		57-2	Brown Fibrous Insulation	Ŷ	None Detected	50% ce	50% qu, pe, ma	
HESE-M- 9B2-58		58-1	Various Black Tar and Felt Layers	N	None Detected	30% fg	70% qu, bi	
		58- <u>2</u>	Brown Fibrous Insulation	Y	None Detected	50% ce	50% qu, pe, ma	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

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ve - vermiculite ot -other pe - perlite qu - quartz

Sidney Pinto As Sidney Pinkerton

Analyst

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ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris While

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Reverable scenario for water separation on vermiculite for possible analysis by another method
 S. < 1% Result point counted positive

10. TEM analysis suggested

4. Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: At		Attn:	: Cissy Puma	Custom	er Project:	CA Labs Project #:		
<i>Havona Environmental</i> P.O.Box 35848			Holloma (East W	n Elementary School ing)	CBR21063720			
Albuquerque, NM 87176						Date:	6/30/2021	
Phone #	505-2	32-953	33	Turnaro	und Time: 3 day	Samples Received: Date Of Sampling:	6/28/2021 6/23/2021	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-flbrous type / percent	
HESE-M- 9C1-59		59-1	Black Shingle with Gray Gravel	Y	None Detected	20% ce	80% qu, bi	
HESE-M- 9C2-60		60-1	Black Shingle with Gray Gravel	Ŷ	None Detected	20% ce	80% qu, bi	
HESE-M- 9C3-61		61-1	Black Felt	Ŷ	None Detected	40% ce	60% qu, bi	
HESE-M- 9D1-62		62-1	Gray Sealant	Y	None Detected		100% qu, ma, ca	
HESE-M- 9D2-63		63-1	Gray Sealant	Y	None Detected		100% qu, ma, ca	
HESE-M- 9D3-64		64-1	Gray Sealant	Y	None Detected		100% qu, ma, ca	
HESE-M- 10A1-65		65-1	Black Sealant	Y	None Detected	1 	100% qu, ma, bi	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate mi - mica gypsum - gypsum bi - binder or - organic ma - matrix

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

ve - vermiculite ot -other pe - perlite qu - quartz

Sidney Pintorto

Sidney Pinkerton

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Will

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Amongaryini an associator with include rate
 Contamination suspected from other building materials
 Favorable sconario for water separation on vermiculite for possible analysis by another method
 1% TEM analysis suggested

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma			Custom Holloma	er Project:	CA Labs Project #:		
P.O.Box 35848 Albuquerque, NM 87176				(East W	ing)	001121000720	
						Date:	6/30/2021
				Turnarc	ound Time: 3 day	Samples Received:	6/28/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/23/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-M- 10A2-66		66-1	Black Sealant	Ŷ	None Detected		100% qu, ma, bi
HESE-M- 10A3-67		67-1	Black Sealant	Ŷ	None Detected		100% qu. ma. bi
HESE-M- 10B1-68		68-1	White Surfaced Gray CMU	N	None Detected		100% qu, pe, bi, ca, ot
HESE-M- 10B2-69		69-1	White Surfaced Gray CMU	N	None Detected		100% qu, pe, bi, ca, ot
HESE-M- 10B3-70		70-1	White Surfaced Gray CMU	N	None Detected		100% qu, pe, bi, ca, ot
HESE-M- 10C1-71		71-1	Tan Surfaced White CMU	N	None Detected		100% qu, ma, bi, ca, ot
HESE-M- 10C2-72		72-1	Tan Surfaced White CMU	N	None Detected		100% qu, ma, bi, ca, ot

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica
gypsum - gypsum	ve - vermi
bi - binder	ot -other
or - organic	pe - perlite
ma - matrix	qu - quart

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

e - vermiculite -other e - perlite u - quartz

Sichney Pintorto Sidney Pinkerton

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Whiles Laboratory Director

Chris Williams

Senior Analyst Alicia Stretz

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by unother method
 1% TEM analysis suggested

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma			Custom	er Project:	CA Labs Project #:		
<i>Havona Environmental</i> P.O.Box 35848 Albuguergue, NM 87176				Holloma (East Wi	n Elementary School ing)	CBR21063720	
						Date:	6/30/2021
				Turnaro	und Time: 3 day	Samples Received:	6/28/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/23/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type. / percent
HESE-M- 10C3-73		73-1	Tan Surfaced White CMU	N	None Detected		100% qu, ma, bi, ca, ot
HESE-M-							
10D1-74		74-1	Tan Sealant	Y	3% Chrysotile		97% qu, ma, ca
HESE-M-		75 1	Tap Socient	V	2% Chrusotile		97% au ma ca
TUD2-75		/5-1	Tan Sealant	, I	5% Chi ysolne		37 /o qu, ma, ca
HESE-M- 10D3-76		76-1	Tan Sealant	Y	3% Chrysotile	and the second states	97% qu, ma, ca
HESE-M- 10E1-77		77-1	Tan Surfaced White Sealant	N	None Detected		100% qu, ma, bi, ca
HESE-M- 10E2-78		78-1	Tan Surfaced White Sealant	N	None Detected		100% qu, ma, bi, ca
HESE-M- 10E3-79		79-1	Tan Surfaced White Sealant	N	None Detected		100% qu, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

mi - mica
ve - vermic
ot -other
pe - perlite
qu - quartz

Sidney Pintorto

Sidney Pinkerton

Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers 2. Fire Damage no significant fiber damages effecting fibrous percentages

fg - fiberglass - vermiculite mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Willing Laboratory Director

Chris Williams

÷. •

Senior Analyst

Alicia Stretz

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Section 2.1 Contamination suspected from other building materials
 Section 2.1 Secti

10. TEM analysis suggested

 Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

3. Actinolite in association with Vermiculite

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Att Havona Environmen P.O.Box 35848		Attn: Cissy Puma mental		Custom Holloma (East W	er Project: In Elementary School ing)	CA Labs Project #: CBR21063720	
Albuquerque, NM 87176					Date:	6/30/2021	
				Turnaro	ound Time: 3 day	Samples Received:	6/28/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/23/2021
Fax #	505-2	256-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-M-		80-1	Tan Surfaced Tan Compound	· N	2% Chrvsotile		98% qu, mi, ma, bi. ca
101 1-00		00-1	Tan Canadoa Tan Compound		2/0 0/1/ /00110		0., 04
		80-2	White CMU	Y	None Detected		100% qu, ma, ca, ot
HESE-M- 10F2-81		81-1	Tan Surfaced Tan Compound	N	2% Chrysotile		98% qu, mi, ma, bi, ca
		81-2	White CMU	Ŷ	None Detected		100% qu, ma, ca, ot
HESE-M- 10F3-82		82-1	Tan Surfaced Tan Compound	N	2% Chrysotile		98% qu, mi, ma, bi, ca
		82-2	White CMU	Y	None Detected		100% qu, ma, ca, ot
HESE-S- 10G1-83		83-1	Tan Surfaced White Plaster	N	None Detected		100% qu, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

fg - fiberglass

mi - mica
ve - vermi
ot -other
pe - perlit
qu - quart

drey Pinkaso Sidney Pinkerton

Analyst

- vermiculite mw - mineral wool -other wo - wollastinite - perlite ta - talc - quartz sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Whiles

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc

Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method
 1% Result point counted positive
 10. TEM analysis suggested

 Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actionitie in association with Vermiculite
 Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848			Custom Holloma (East W	er Project: In Elementary School ing)	CA Labs Project #: CBR21063720		
Albuquerque	e, NM 8	37176				Date:	6/30/2021
				Turnaro	und Time: 3 day	Samples Received:	6/28/2021
Phone #	505-2	32-953	33			Date Of Sampling:	6/23/2021
Fax #	505-2	56-823	37			Purchase Order #:	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-S- 10G2-84		84-1	Tan Surfaced White Plaster	N	None Detected		100% qu, ma, bi, ca
HESE-S-		05 1	Ton Surfaced White Plaster	·	None Detected		100% qu, ma, bi,
1003-85		80-1	Tan Sunaced White Flaster	//	None Delected		Ca
HESE-M- 10H1-86		86-1	White Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca, ot
HESE-M- 10H2-87		87-1	White Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca, ot
HESE-M- 10H3-88		88-1	White Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca, ot
HESE-M- 1011-89		89-1	Gray Sealant	Y	4% Chrysotile		96% qu, ma, ca
HESE-M- 1012-90		90-1	Gray Sealant	Ŷ	4% Chrysotile		96% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ta - talc

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers

ve - vermiculite ot -other pe - perlite qu - quartz

Sidney Pinto As

Sidney Pinkerton

Analyst

mi - mica

fg - fiberglass mw - mineral wool wo - wollastinite sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris Willing

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Talc
 7. Contamination suspected from other building materials
 8. Favorable sconario for water separation on vermiculite for possible analysis by another method
 9. < 1% Result point counted positive
 10. TEM analysis suggested

2. Fire Damage on significant fiber damage reported percentages readed that the interval 3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected 5. Not enough sample to analyze

Dedicated to Quality

CA Labs, L.L.C. 12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634

NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma Havona Environmental P.O.Box 35848 Albuquerque, NM 87176 Phone # 505-232-9533 Fax # 505-256-8237			Custome Hollomar (East Wi	er Project: n Elementary School ng)	CA Labs Project #: CBR21063720 Date:	6/30/2021	
			Turnaro	u nd Time: 3 day	Samples Received: Date Of Sampling: Purchase Order #:	6/28/2021 6/23/2021	
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-M- 10J1-91		91-1	Gray Transite	Y	15% Chrysotile	1	85% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate gypsum - gypsum hi - hinder or - organic ma - matrix

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages
 Actinolite in association with Vermiculite

mi - mica ve - vermiculite ot -other pe - perlite qu - quartz

Sidney Pinkato Sidney Pinkerton

Analyst

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic

ce - cellulose br - brucite ka - kaolin (clay) pa - palygorskite (clay)

Approved Signatories:

Chris William

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

6. Anthophyllite in association with Fibrous Tatc 7. Contamination suspected from other building materials

9. Containing the second of the second of the second seco

concerne at association twin verificantee
 Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze
CBR21063720

Phone 505-232-9533 Fax 505-212-0069

havonaenvironmentai

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:				
Holloman Elementary School (East Wing)				Alamogordo Public Schools				
Holloman Air Force Base				Havona Contact Information:				
Alamogordo, NM				Name: Cissy Pun	18	Phone: 505-977	-4938	
Sampled By: Scott Puma and Junior Fres	quez Date	Sampled: 6-23	-21	Email: havonaen	vironmental(@yahoo.com	1		
Sampler's Signature: Aut F-			Page:		7	CARADATIC		
SAMPLE #	DUCATION			IVL/	AI EKIAD		OIVILITEIN C	
llerer availatal		Last wing	. 1		A			
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Turn Around Time 2-4 Hour	Sa	ne Day	24 1	lour	2 Day	(Day)	5-10 Day	
Relinguished Byt		Date/Time:		Received By:	1		Date/Time:	
		6-25-21		CHG M	Mar		6-28-2021 8:00	
Relinguished By:		Date/lime:		Keceived By:			Date/Time:	

CBR21063720

Phone 505-232-9533 Fax 505-212-0069

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PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:					
Holloman Elementary School (East Wing)				Alamogordo Public Schools					
Holloman Air Force Base				Havona Contact Information:					
Alamogordo, NM				Name: Cissy Puma Phone: 505-977-4938					
Sampled By: Scott Puma and Junior Fres	quez Date	Sampled: 6-23-2	1	Email: havonae	nvironmental@yahoo.com				
Sampler's Signature: Auth		PERSONAL COMPANY AND A PROPERTY		Page:	2 of	7	- 122-13-13-13-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
SAMPLE#	LOCATION		M	ATERIAL	C	OMMENT			
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Turn Around Time 2-4 Hour	Sa	me Day	24 I	lour	2 Day	3 Day	5-10 Day		
Relinquished By:		Date/Time:		Received By:	11		Date/Time:		
Auto P		6-25-21		Cly 1	Me or		6-28-2021 8:00		
Relinquished By:		Date/Time:		Received By:			Date/Time:		

CBR2106 3720

Phone 505-232-9533 Fax 505-212-0069 . راکناندار ولسنده

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PLM BULK SAMPLE CHAIN OF CUSTODY

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Havona Project Name and Location?				Havona Clienti					
Holloman Elementary School (East Wing)				Alamogordo Public Schools					
Holloman Air Force Base				Havona Contact Information:					
Alamogordo, NM				Name: Cissy Puma Phone: 505-977-4938					
Sampled By: Scott Puma and Junior Fres	quez Date	Sampled: 6-23-21		Email: havonaei	nvironmental@yahoo.com	~			
Sampler's Signature: Autor 12-			Sec. States and a	Page:	3 01		MARTINIO		
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Relinguished By:		Date/Time:		Received By:			Date/Time:		
Atto Re-		6-25-21	WARD BOOK STORE	TIGN		CONTRACT OF MULTIPLY AND A DECK OF THE CONTRACT OF	128-2021 8:00		
Relinguished By:		Date/Time:		Received By:			Date/Time:		
		1							

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Phone 505-232-9533 Fax 505-212-0069

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PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:					
Holloman Elementary School (East Wing)				Alamogordo Public Schools					
Holloman Air Force Base				Havona Contact Information:					
Alamogordo, NM				Name: Cissy Puma Phone: 505-977-4938					
Sampled By: Scott Puma and Junior Fres	squez Da	te Sampled: 6-23-	-21	Email: havonaeny	vironmental@yahoo.com				
Sampler's Signature: Aut n				Page:	<u> </u>	7			
SAMPLE #		LOCATION		MA	TERIAL	C	DMMENT		
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Turn Around Time 2-4 Hour	S	ame Day	24 1	Iour	2 Day	3 Day	5-10 Day		
Relinguished By:		Date/Time:		Received By:			Date/Time:		
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Relinquished By:		Date/Time:		Received By: -			Date/Time:		

CBR2106 3720

Phone 505-232-9533

Fax 505-212-0069

Havona Environmental, Inc. P.O. Box 35848

Albuquerque, NM 87176

havona environmental

PLM BULK SAMPLE CHAIN OF CUSTODY

A CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNE

Havona Project Name and Location:				Havona Client						
Holloman Elementary School (East Wing)				Alamogordo Public Schools						
Holloman Air Force Base				Havona Contact Information:						
Alamogordo, NM				Name: Cissy Puma Phone: 505-977-4938						
Sampled By: Scott Puma and Junior Fresc	uez Date	Sampled: 6-23-	21	Email: havona	environmental@yahoo	b.com				
Sampler's Signature: A.T. 12	Sampler's Signature: A.T. 12			Page:	5	of 7		Construction and the construction of the second		
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CBR21063720

Havona Environmental, Inc. P.O. Box 35848

Albuquerque, NM 87176

havonaenvironmental

and Annaldal Warning and party

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PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location	Havona Client:								
Holloman Elementary School (East Wing)				Alamogordo Public Schools					
Holloman Air Force Base		· · · · · · · · · · · · · · · · · · ·		Havona Contact Information:					
Alamogordo, NM				Name: Cissy Puma Phone: 505-977-4938					
Sampled By: Scott Puma and Junior Freso	uez Date	Sampled: 6-23-2	1	Email: havonae	nvironmental@yahoo.con	1	· · · · · · · · · · · · · · · · · · ·		
Sampler's Signature: Aut 12				Page:	<u>6 of</u>	7			
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Phone 505-232-9533 Fax 505-212-0069

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Havona Environmental, Inc. P.O. Box 35848 Albuquerque, NM 87176 Phone 505-232-9533 Fax 505-212-0069

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Holloman Elementary School (East Wing)			Alamogordo Public Schools					
Holloman Air Force Base			Havona Contact Information:					
Alamogordo, NM	· · ·		Name: Cissy Puma	l	Phone: 505-977-	4938		
Sampled By: Scott Puma and Junior Frese	quez Date	Sampled: 6-23-21	Email: havonaenvironmental@yahoo.com					
Sampler's Signature: Att R		· ·	Page:	7 of	7			
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APPENDIX D



