ASBESTOS CONTAINING MATERIAL SURVEY REPORT
OF
KEARNY TOWN HALL AND TEEN CENTER

FUNDED BY: COPPER CORRIDOR BLIGHT BUSTERS
USEPA BROWNFIELDS COALITION ASSESSMENT GRANT

912 (B & C) TILBURY DRIVE
KEARNY, PINAL COUNTY, ARIZONA 85137
APN: 301-13-6340

ATLAS PROJECT NO. 1052000242, PHASE 13

REPORT DATE: APRIL 12, 2024

Prepared by:

Atlas Technical Consultants LLC
9185 South Farmer Road, Suite 111
Tempe, Arizona 85284
Phone: (480) 894-2056
Fax: (480) 894-2497

Prepared for:

Copper Corridor Blight Busters USEPA
Brownfields Coalition
1400 East Ash Street
Globe, Gila County, Arizona 85501
Phone: (928) 402-4392

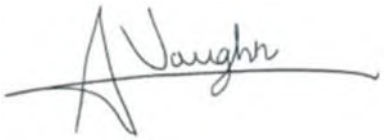
Project Responsibility

This report has been prepared consistent with good customary industry practices for the evaluation of asbestos-containing materials (ACM) in structures scheduled for renovation and/or demolition. Atlas Technical Consultants LLC (Atlas) presents the data from this Asbestos Survey, based on the conditions observed during the site survey conducted from February 22 through 23 and March 15, 2024. Atlas makes no determinations and warrants no conclusions beyond those stated herein. Further, Atlas submits this report to Copper Corridor Blight Busters Coalition (CC BB Coalition) for the exclusive use of CC BB Coalition and the United States Environmental Protection Agency (USEPA) Region IX.

Atlas appreciates this opportunity to assist CC BB Coalition with this project. Thank you for allowing our firm to perform these consulting services. Your business is important to us and we sincerely appreciate your patronage. Please contact the undersigned if you have any questions or need additional information.

This survey was completed by:

Chad Wells, Industrial Hygiene Technician
Email: chad.wells@oneatlas.com
AHERA Asbestos Building Inspector
ON-4649-12331-111521



Amayah Vaughn, Staff Scientist
Email: amayah.vaughn@oneatlas.com
AHERA Asbestos Building Inspector
ON-4644-14992-112923

Thomas Nelson, Staff Scientist
Email: thomas.nelson@oneatlas.com
AHERA Asbestos Building Inspector
ON-4644-14993-112923

Derron Wright, Technician
Email: derron.wright@oneatlas.com
AHERA Asbestos Building Inspector
4380-17072-120623

This report was reviewed by:

Crystal Mueller, Sr. Project Manager
Email: crystal.mueller@oneatlas.com
Direct Line: 480-355-4626

R Teresa Harris, Client Manager
Email: Teresa.harris@oneatlas.com
Direct Line: 480-355-4670

Executive Summary

The Copper Corridor Blight Busters Coalition (CC BB Coalition) authorized Atlas Technical Consultants LLC (Atlas) to conduct an Asbestos Survey, collectively referred to as "the Survey," of the Kearny Town Hall and Teen Center; hereinafter, referred to as the Site. The assessment was funded by the United States Environmental Protection agency (USEPA) Grant awarded to the CCBB Coalition. The purpose of the Survey was to determine the asbestos content of suspect asbestos-containing materials (ACMs) that may be impacted by future renovations, additions or demolitions of the structures at the Site.

Mr. Chad Wells, Ms. Amayah Vaughn, Mr. Thomas Nelson, and Mr. Derron Wright, all Atlas Asbestos Hazard Emergency Response Act (AHERA) accredited building inspectors, conducted this survey from February 22 to 23 and March 15, 2024.

Bulk samples of building materials that may be impacted during future renovations, additions, or demolitions were collected and delivered to an accredited laboratory for analysis using polarized light microscopy (PLM) methods to determine asbestos content. Samples were collected from each building at the Site. No ACM was identified during this survey.

Table of Contents

Appendices

Tables

1 Project Information

The Copper Corridor Blight Busters Coalition (CC BB Brownfields Coalition) authorized Atlas Technical Consultants LLC (Atlas) to conduct an asbestos survey at the Kearny Town Hall and Teen Center located at 912 (B and C) Tilbury Drive in Kearny, Pinal County, Arizona; hereinafter, referred to as the Site. The purpose of the Survey was to determine the asbestos content of suspect asbestos-containing materials (ACMs) that may be impacted by future renovations, additions, or demolitions of the structures at the Site.

This Survey was conducted in general accordance with CC BB Coalition Sampling and Analysis Plan, dated April 30, 2022, and approved by the United States Environmental Protection Agency (USEPA) in September 2022. The Survey was conducted in compliance with all applicable Federal, State, and local regulations including regulations promulgated under the USEPA AHERA, the National Emissions Standard for Hazardous Air Pollutants (NESHAP) and the OSHA Construction Industry Standard as defined in 29 Code of Federal Regulations (CFR) 1926.1101.

Mr. Chad Wells, Ms. Amayah Vaughn, Mr. Thomas Nelson, and Mr. Derron Wright, all Atlas USEPA Asbestos Hazard Emergency Response Act (AHERA) accredited building inspectors, conducted this survey from February 22 to 23 and March 15, 2024. Copies of their certifications are included in Appendix A.

1.1 Site Description

The Site is located at 912 (B and C) Tilbury Drive, Kearny, Pinal County, Arizona 85137. The Site is developed with two buildings surveyed: the Town Hall and the Teen Center. The Town Hall, located on the southeast side of the property, is approximately 3,000 square feet and is a one-story local government building; it was estimated to be constructed between 1971 and 1983. The Teen Center, located on the northwest side of the property, is approximately 1,400 square feet and is a one-story youth community services building; it was estimated to be constructed between 1957 and 1961. Asphalt paved parking lots are located on the property.

1.2 Asbestos Hazard Background

Asbestos is a hazardous substance. Its condition, handling and disposal are regulated by Federal, State, and local agencies. ACMs generally do not pose a health threat unless the asbestos fibers are disturbed, become airborne and are inhaled. Contractors working in an area where asbestos is present must be informed of the type and location of ACMs. Abatement of ACMs, including non-friable ACMs, must be performed by a licensed, certified, and registered asbestos abatement contractor in accordance with State and Federal Occupational Safety and Health Administration (OSHA) and local air quality management regulations.

2 Asbestos Survey

2.1 Asbestos Sampling Methodology

The location of suspect material samples collected for laboratory analysis of asbestos content are shown on the sample location maps included in Appendix B. These plans show the location of floor and wall samples, ceiling samples, samples of miscellaneous material, and roofing materials.

2.1.1 Homogeneous Areas

Prior to collecting any samples, homogeneous areas (HAs) were identified and listed to develop a sampling strategy. An HA can be described as one or more areas of material that are similar in appearance and texture and that have the same installation date and function. The actual number of samples collected from each HA may vary, based on the type of material and the professional judgment of the inspector.

2.1.2 Condition Assessment Factors

From the list of suspect homogeneous materials, a condition assessment was performed for each material on the list. A condition assessment includes evaluating the condition and determining the friability of each material. By definition, "friable" materials are those that can be crumbled or reduced to powder by hand pressure when dry. Each material on the list was further classified into one of three categories, which have specific sampling requirements for each category.

Surfacing Materials:	Refers to spray-applied or troweled surfaces such as plaster ceilings and walls, fireproofing, textured paints, textured plasters, and spray-applied acoustical surfaces.
Thermal System Insulation:	Refers to insulation used to inhibit heat gain or loss on pipes, boilers, tanks, ducts, and various other building components.
Miscellaneous Materials:	Refers to friable and non-friable products and materials that do not fit in any of the above two categories such as resilient floor covering, baseboards, mastics, adhesives, roofing material, caulking, glazing, and siding. This category also contains wallboard and ceiling tile.

All confirmed ACMs were then assessed by their condition as good, fair, or poor (damaged). Material with localized significant damage was also assessed as poor when observed.

2.1.3 Sampling Strategy

The survey was conducted in general accordance with the AHERA requirements using a minimum number of samples collected from each HA, which also meets the sampling requirement found in 29 CFR 1926.1101.

Sampling strategy was executed with primary emphasis on the “3-5-7 rule.” Sample collection depends on the category that the HA falls into and the amount of material present, as shown in the table below.

Table 2-1 Asbestos Sampling Strategy

AHERA GUIDELINES FOR DETERMINING THE NUMBER OF SAMPLES TO BE COLLECTED		
HA CATEGORY	**HA SIZE**	**SAMPLES REQUIRED**
Surfacing Materials	<1,000 SF	3
	1,000 – 5,000 SF	5
	>5,000 SF	7 or more
Thermal System Insulation	No Stipulation	3+ (Must also sample all repair patches)
Miscellaneous Materials	No Stipulation	Per AHERA, these materials must be sampled "in a manner sufficient to determine whether or not they contain asbestos" typically 1 – 3 samples based upon inspector judgment.
SF= square feet		

Once the HAs were identified for each similar material, the required quantity of bulk samples of each suspect ACM were collected for subsequent analysis. Bulk samples were collected by spraying the suspect material with water, where appropriate, removing a small portion of the material and placing it into a laboratory-provided or generic zip-lock plastic bag. Sample containers were marked with a unique identification number, which is also noted in the field notes. Materials visually determined to be non-asbestos (i.e., unpainted metal, glass, wood, etc.) by the accredited inspector were not sampled. Samples were handled according to accepted procedures for the collection, packaging, chain-of-custody documentation, and transport of bulk samples to the laboratory for analysis.

Miscellaneous materials require adequately representative sampling, which is typically done by collecting from one to three samples per material. Inspectors typically rely on other survey observations such as the condition, friability, and quantity of material to determine what would be a sufficient amount of samples to accurately evaluate the presence or absence of asbestos content.

Atlas collected a total of 126 bulk samples at the Site that were analyzed by the analytical laboratory as 266 layers based on the number of distinct layers (materials) associated with each bulk sample. For example, floor tile and associated mastic are collected as one bulk sample, but are analyzed as two distinct materials by the asbestos laboratory as required by National Voluntary Laboratory Accreditation Program (NVLAP) guidelines. This included 96 bulk samples, 200 layers from the Town Hall, and 30 bulk samples, 66 layers, from the Teen Center.

Samples were submitted to Fiberquant Analytical Services (Fiberquant) in Phoenix, Arizona. Fiberquant is a National Voluntary Laboratory Accreditation program (NVLAP)-accredited laboratory for asbestos analysis. Fiberquant's NVLAP code is 101031-0. A copy of the accreditation for Fiberquant is included in Appendix A.

The samples were submitted to Fiberquant for analysis using Polarized Light Microscopy (PLM) in accordance with the USEPA *"Method for the Determination of Asbestos in Bulk Building Materials" (USEPA/600/R93/116, July 1993)*.

Any material that was determined to contain less than one percent (<1%) asbestos by PLM is not considered to contain asbestos. Conversely, materials that tested greater than one percent (>1%) asbestos are ACM and must be handled according to OSHA, USEPA, and applicable state NESHAP and local regulations.

Friable materials often require additional analyses to determine asbestos content. If friable materials are determined, via PLM analytical method, to be "non-detectable (ND) for asbestos fibers," no further verification of the sample results are needed. If friable materials are determined, via PLM analytical method, to contain "Trace" or less than 10% asbestos, the material may require further verification of the amount by Point Counting Methods. The Point Count method has a greater precision range than the standard PLM method. By subjecting the material exhibiting trace amounts of asbestos fiber to further Point Count analyses, a refinement of the asbestos content may be achieved and potentially the elimination of a material from ACM status may result. Materials analysed by PLM as less than 1% were sent for 400 point count analysis to determine if they needed to be classified as ACM. Atlas requested further

analyses via Point Count on HA-M2, the Off-White Texture and Joint Compound associated with the Brick and Mortar, in the Teen Center building.

For non-friable materials, when the amount of asbestos in the sample material is reported at greater than 1% by PLM analysis, no further verification of the sample results by alternative methods of identification such as Transmission Electron Microscopy (TEM) Chatfield method is recommended.

For non-friable materials, when the amount of asbestos in the sample material is reported as "None-Detected" or less than 1% by PLM analysis, due to the difficulty in analyzing non-friable or resinously bound materials, Atlas recommends that these types of materials, which were reported as non-ACMs by PLM, be analyzed using TEM Chatfield method. Atlas did not request further analyses via TEM on any of the sampled materials.

Materials determined by laboratory analyses to contain asbestos were properly classified as either Regulated Asbestos Containing Materials (RACM), Non-Friable Category I (CAT I) or Non-Friable Category II (CAT II), per USEPA NESHAP regulations, Title 40 CFR Part 61, Subpart M, Asbestos.

2.2 Results of Asbestos Survey

Results of laboratory analysis of samples are included in Appendix C. Asbestos Sample Location Maps are included in Appendix B. Atlas has presented the appropriate NESHAP categories for identified ACM in the following tables to assist with the planning of future renovation and/or demolition activities. The NESHAP category was not determined for non-ACM building materials.

A total of 126 representative bulk samples of suspect ACMs were collected from 42 identified HAs at the Site. On March 15, 2024, Atlas collected additional samples of the Brick & Mortar – with Paint & Associated Expansion Joint (M2-D, E, F/mislabel as M5-A, B, C) to verify possible contamination and/or delineate the location of the black mastic. The additional sampling did not identify regulated asbestos or black mastic. The black mastic layer found in sample M2-B is likely the results of contamination during sampling or laboratory analysis. Subsequent laboratory analyses determined that the 42 HAs were not considered ACM. The ACM sampling results for the Town Hall and Teen Center buildings are presented in **Tables 2-2 and 2-3** below.

Table 2-2 Asbestos Bulk Sampling Results – Town Hall

ACM Bulk Sampling Results Kearny Town Hall and Teen Center Town Hall Building 912 (B and C) Tilbury Drive Kearny, Arizona 85137 Survey Dates: February 22-23, 2024							
Sample No.	**Homogenous Material**	**Location / Functional Space**	**Asbestos Content**	**Friable**	**Condition**	**Approx. Quantity**	**NESHAP Category**
Flooring Materials							
F1-A F1-B F1-C	Vinyl Floor Tile & Mastic – 12" x 12", Blue & Cream	Entry, Hallway, Men's and Women's Restrooms, Copy Room, & File Room	Off-White Floor Tile: ND Yellow Mastic: ND Green Floor Tile: ND White Leveling Compound: ND	No	Good	NA	NA
F2-A F2-B F2-C	Carpet & Mastic – Gray, Fibrous	Admin & Town Clerk	Various Colored Carpet: ND	No	Good	NA	NA
F3-A F3-B F3-C	Carpet & Mastic – Blue, Fibrous	Town Manager	Various Colored Carpet: ND Tan Mastic: ND	No	Good	NA	NA
F4-A F4-B F4-C	Ceramic Tile & Grout – 4" x 4", Saltile, Brown	Entry Restroom	Tan Ceramic Tile: ND Gray Grout: ND Gray Mortar: ND	No	Good	NA	NA
F5-A F5-B F5-C	Concrete – Gray	Foundation Throughout	Gray Concrete: ND	No	Good	NA	NA

ACM Bulk Sampling Results Kearny Town Hall and Teen Center Town Hall Building 912 (B and C) Tilbury Drive Kearny, Arizona 85137 Survey Dates: February 22-23, 2024							
Sample No.	Homogenous Material	Location / Functional Space	Asbestos Content	Friable	Condition	Approx. Quantity	NESHAP Category
F6-A F6-B F6-C	Carpet & Mastic – Brown, Fibrous	Council Chambers	Various Colored Carpet: ND Yellow Mastic: ND	No	Good	NA	NA
F7-A F7-B F7-C	Vinyl Floor Tile & Mastic – 12" x 12", Gold	Storage	Off-White Flooring: ND Clear Mastic: ND	No	Good	NA	NA
Wall System Materials							
W1-A W1-B W1-C	Textured Drywall – Light Orange Textured Finish	Throughout Except Council Chambers	Off-White Paint: ND White Texture / Joint Compound: ND	No	Good	NA	NA
W2-A W2-B W2-C	Textured Drywall – Sandy Textured	Council Chambers	Off-White Paint: ND Tan Paper / Cardboard: ND White Drywall Core: ND	No	Good	NA	NA
W3-A W3-B W3-C	Cove Base & Mastic – 4", Brown	Base of Walls Throughout	White Paint: ND Brown Base Cove: ND Off-White Mastic: ND	No	Good	NA	NA
W4-A W4-B W4-C	Gypsum Wallboard with Joint Compound	Town Manager, Back of Hall Restroom	Tan Paper / Cardboard: ND White Drywall Core: ND	No	Good	NA	NA
W5-A W5-B W5-C	Adhesive – Brown	Town Manager, Back of Hall Restrooms, & Hall Restrooms	Brown Mastic: ND Tan Paper / Cardboard: ND	No	Good	NA	NA
Ceiling Materials							
C1-A C1-B C1-C	Textured Drywall – Light Orange Peel Textured	Entry, Entry Restrooms, Hall, Copy Room, & File Room	White Texture / Joint Compound: ND Tan Paper / Cardboard: ND White Drywall Core: ND Off-White Paint: ND	No	Good	NA	NA
C2-A C2-B C2-C	Popcorn Ceilings – White	Town Manager, Admin, & Town Clerk	White Spray-On Ceiling: ND Tan Paper / Cardboard: ND White Drywall Core: ND	Yes	Good	NA	NA
C3-A C3-B C3-C	Textured Drywall – Skip Troweled Textured	Hall Restrooms – Men's & Women's	White Paint: ND White Texture / Joint Compound: ND Tan Paper / Cardboard: ND White Drywall Core: ND	No	Good	NA	NA
C4-A C4-B C4-C	Textured Drywall – Sandy Textured	Council Chambers	Off-White Paint: ND Tan Paper / Cardboard: ND White Drywall Core: ND	No	Good	NA	NA
Miscellaneous Materials							
M1-A M1-B M1-C	Slump Block & Mortar – Brown, Rigid, with Gray Mortar	Perimeter Walls	Tan Block: ND Gray Mortar: ND	No	Good	NA	NA
M2-A M2-B M2-C	Acoustical Sink Coating – Black	Break Room	Brown Coating: ND	No	Good	NA	NA
M3-A M3-B M3-C	Door Frame Sealant – White	Doors Throughout	White Paint: ND White Sealant: ND	No	Good	NA	NA
M4-A M4-B M4-C	Window Frame Sealant – White	Windows Throughout	White Paint: ND White Sealant: ND	No	Good	NA	NA

ACM Bulk Sampling Results Kearny Town Hall and Teen Center Town Hall Building 912 (B and C) Tilbury Drive Kearny, Arizona 85137 Survey Dates: February 22-23, 2024							
Sample No.	Homogenous Material	Location / Functional Space	Asbestos Content	Friable	Condition	Approx. Quantity	NESHAP Category
M5-A M5-B M5-C	Caulking Compound – White	Restroom Fixtures – Toilets & Sinks & Millwork in Break Room	White Paint: ND White Caulk: ND	No	Good	NA	NA
M6-A M6-B M6-C	Paint – Orange	Exterior Wood Trims & Finishes	Red Paint: ND Black Sealant: ND White Sealant: ND Gray Debris: ND	No	Poor	NA	NA
M7-A M7-B M7-C	Sealant – Gray	Exterior Perimeter Patches on HA-M1	Gray Sealant: ND White Sealant: ND	No	Good	NA	NA
M8-A M8-B M8-C	Concrete – Gray	Walkways	Gray Concrete: ND	No	Good	NA	NA
M9-A M9-B M9-C	Paint – Silver	Flagpole	Various Colored Paint: ND	No	Good	NA	NA
M10-A M10-B M10-C	Asphalt – Black, Aggregate	Parking Lot	Black Asphalt: ND	No	Good	NA	NA
M11-A M11-B M11-C	BATT Insulation – Fiberglass-like	Plenum Throughout	Yellow Insulation: ND	No	Good	NA	NA
M12-A M12-B M12-C	Vermiculite – Block Filler	Exterior Southwest Corner	Gold Vermiculite: < = 1% Tremolite/Actinolite Asbestos	No	Good	NA	NA
Roofing Materials							
R1-A R1-B R1-C	Bituminous Roofing Shingles – Roofing Felt Included	Pitched Roof Throughout	Black Roofing Roll/Shingle: ND Black Bitumen Sheeting: ND	No	Good	NA	NA
R2-A R2-B R2-C	White Penetration Sealant	Roof Throughout	White Sealant: ND Black Bitumen: ND	No	Good	NA	NA
R3-A R3-B R3-C	Silver Duct Sealant	Roof Throughout	Gray Sealant: ND Silver Metal: ND	No	Good	NA	NA
R4-A R4-B R4-C	Gray Roofing Sealant	Roof Throughout	Silver Sealant: ND	No	Good	NA	NA
ND = Non Detect; NA = Not Applicable; Quantity, and NESHAP categories provided for ACMs only. ***Bold*** *indicates ACM. Bulk sample colors observed in the field may not reflect colors identified within the lab report.*							

Due to the nature of vermiculite, bundles will shift and sort throughout the material over time and small or improperly sampled vermiculite has the risk of completely missing bundles in the sampled segment that may be present in clusters/pockets/evenly distributed in other areas clusters/pockets. Results have a high risk of a false negative, given the sample size for regular PLM analysis.

Vermiculite insulation containing less than 1 percent asbestos does not qualify as ACM under AHERA. If standard PLM analysis, ensuring that bulk samples comply with sampling requirements as laid out in 40 CFR part 763.86 and that subsequent analysis of such samples complies with analysis requirements set forth in 40 CFR part 763.87, concludes that a material contains less than 1 percent asbestos, then it is not ACM in State and EPA regulations. However, disturbing contaminated vermiculite with less than 1% asbestos can still result in hazardous concentrations of airborne asbestos fibers. The National Institute for Occupational Safety and Health (NIOSH) recommends workers consult

OSHA asbestos standards for general industry and construction (29 CFR 1910.1001 and 1926.1101) when work will involve vermiculite that is known or presumed to be contaminated with asbestos.

Table 2-3 Asbestos Bulk Sampling Results – Teen Center

ACM Bulk Sampling Results Kearny Town Hall and Teen Center Teen Center Building 912 (B and C) Tilbury Drive Kearny, Arizona 85137 Survey Dates: February 22-23 and March 15, 2024							
Sample No.	**Homogenous Material**	**Location / Functional Space**	**Asbestos Content**	**Friable**	**Condition**	**Approx. Quantity**	**NESHAP Category**
Flooring Materials							
F1-A F1-B F1-B	Epoxy Coated Concrete	Building Throughout	Gray Concrete: ND	No	Good	NA	NA
Ceiling Materials							
C1-A C1-B C1-C	Acoustical Ceiling Panel – 2' x 4', Pinholes & Fissures	Building Throughout	Off-Paint: ND Off-White Acoustical Tile: ND	Yes	Good	NA	NA
Miscellaneous Materials							
M1-A M1-B M1-C	BATT Insulation	Ceiling Throughout	Silver Insulation Wrap: ND Pink Insulation: ND	No	Good	NA	NA
M2-A M2-B* M2-C M2-D (M5-A)** M2-E (M5-B)** M2-F (M5-C)**	Brick & Mortar – with Paint & Associated Expansion Joint	Exterior Walls	Off-White Sealant: ND Brown Sealant: ND Yellow Paint: ND Off-White Texture / Joint Compound (Point Count): 0.5 % Chrysotile Asbestos Gray Block: ND Gray Mortar: ND *Black Mastic: > 1-2% Chrysotile Asbestos Red Paint: ND White Sealant: ND Various Colored Paint: ND	No	Good	NA	NA
M3-A M3-B M3-C	Sink Caulk – White	Restroom & Kitchen	White Sealant: ND Gray Paint: ND	No	Good	NA	NA
M4-A M4-B M4-C	Silver Duct Sealant	Kitchen	Silver Duct Tape: ND	No	Good	NA	NA
M5-A M5-B M5-C	Concrete – Gray, Exterior	Exterior	Off-White Paint: ND Gray Concrete: ND Gray Sealant: ND	No	Good	NA	NA
M6-A M6-B M6-C	Black Acoustical Sink Coating	Kitchen	Black Sealant: ND	No	Good	NA	NA
Roofing Materials							
R1-A R1-B R1-C	Roofing Shingles & Underlayment	Roof Throughout	Black Roofing Roll/Shingle: ND Black Roof Ply/Bitumen: ND	No	Good	NA	NA

ACM Bulk Sampling Results Kearny Town Hall and Teen Center Teen Center Building 912 (B and C) Tilbury Drive Kearny, Arizona 85137 Survey Dates: February 22-23 and March 15, 2024							
Sample No.	Homogenous Material	Location / Functional Space	Asbestos Content	Friable	Condition	Approx. Quantity	NESHAP Category
Note: The interior walls in the building were the same HA as the exterior walls. * The black mastic layer found in sample M2-B is likely the result of contamination during sampling or laboratory analysis. **On March 15, 2024, Atlas collected additional samples of the Brick & Mortar – with Paint & Associated Expansion Joint (M2-D, E, F/mislabel as M5-A, B, C) to verify possible contamination and/or delineate the location of the black mastic. The additional sampling did not identify regulated asbestos or black mastic. *ND = Non Detect; NA = Not Applicable; Quantity, and NESHAP categories provided for ACMs only.* ***Bold*** *indicates ACM. Bulk sample colors observed in the field may not reflect colors identified within the lab report.*							

2.3 Sampling Limitations and Exclusions

Atlas did not conduct a destructive investigation (cutting selective access holes in walls, ceilings, pipe chases, mechanical equipment, etc.) to assess concealed materials that were not readily apparent. Atlas did not conduct fully destructive investigation on floors to identify multi-layered tile/underlayment systems/concealed paper, vapor barriers, floor tiles/mastics under wood floor systems even though we attempted to classify multiple layers when noted. Atlas did not conduct destructive investigation of doors in the building to determine if the doors were insulated for fire-rating purposes.

Additional ACM may be present at the Site in inaccessible or concealed spaces. These spaces include, but are not limited to, pipe chases, spaces between wall/ceiling/door/floor cavities, interior of mechanical components such as boiler cavities, interior ducts, beneath foundation pads, etc. If the buildings are being demolished, Atlas recommends that all unidentified materials should be treated as assumed ACM, until analytical tests prove otherwise.

A lead-based paint survey was conducted at the Site as part of this scope of work. Information regarding the lead-based paint survey results will be presented in a separate report.

2.4 Asbestos Regulatory Standards

OSHA and USEPA regulate airborne levels of asbestos fibers. These governmental agencies have promulgated standards for permissible airborne concentrations of asbestos fibers and specific requirements for repair and abatement. The laws are designed to protect the worker (OSHA) and the general environment (USEPA). In addition, each state may have adopted its own requirements, which may be more stringent than those called for by OSHA or the USEPA.

OSHA established an asbestos general industry standard in 1971, primarily directed toward industrial applications, as found in 29 CFR 1910.1001. In response to the growing asbestos abatement industry and the additional concern regarding asbestos exposure, a standard for the construction industry (29 CFR 1926.58) became effective on July 21, 1986. These standards specifically outline asbestos removal procedures, respirator selection and fit testing, air sampling, the analysis of asbestos air samples, and employee protection from exposure to airborne asbestos fibers. The standards include a time-weighted average (TWA) permissible exposure limit (PEL) of 0.2 fibers per cubic centimeter of air (f/cc), and a short-term excursion limit of 1.0 f/cc. Concentrations above these levels require specific employer-initiated activities such as instituting a respiratory protection program and medical surveillance for exposed employees.

OSHA changed these standards in October of 1994 to include the reduction of the PEL for an 8-hour TWA to 0.1 f/cc in its revised construction industry standard of 29 CFR 1926.1101 and the revised general industry standard 29 CFR 1910.1001. These revisions specify that building owners are now required to communicate to employees, subcontractors, and tenants the location and quantity of ACM identified in this survey.

The USEPA has established regulations regarding renovation and demolition projects. These regulations are known as the Asbestos NESHAP regulations found in Title 40, CFR, Part 61, Subpart M. The USEPA Asbestos NESHAP regulations require a thorough inspection for the presence of asbestos prior to any demolition and/or renovation activity. If any asbestos is identified over the established threshold amounts, the USEPA requires a renovation notification to the proper regulatory jurisdiction, proper handling and disposal of any friable ACM or RACM, and the deposit of the asbestos-containing waste material (ACWM) at an approved landfill. In addition, if any structural or load-bearing demolition (total or partial demolition of the building) will occur during the course of the project, a demolition notification must be submitted to the proper regulatory jurisdiction and the friable ACM or RACM must be removed prior to the demolition activity.

Because the Site is located in Pinal County, it falls within the Pinal County Air Quality Control District NESHAP program jurisdiction. According to the Pinal County NESHAP program, for all demolitions (even when no asbestos is present) and renovation activities involving threshold amounts of RACM, provide the Asbestos NESHAP agency overseeing the project site with a NESHAP notification at least 10 working days prior to the demolition or renovation activity. Threshold amounts of RACM are:

- 260 linear feet or more on pipes
- 160 square feet or more on other facility components
- 35 cubic feet or more off facility components

According to the Pinal County NESHAP program, for each NESHAP notification submitted, there is a 100-dollar ($100) fee.

2.5 Asbestos Recommendations and Conclusions

Atlas understands that the purpose of the Survey was to determine the asbestos content of suspect asbestos-containing materials (ACMs), including interior and exterior areas, that may be impacted by future renovations, additions, or demolitions of the three buildings at the Site. No ACM was identified in the building materials sampled from the Site.

Contractors and employees working in this building should be made aware of the possibility that concealed ACMs may be found during demolition. They should be advised not to disturb known or suspect ACMs without owner approval.

At the present time, if any renovation or demolition activities are planned and additional suspect ACM is encountered in inaccessible or concealed areas, these materials should be assumed to be ACMs and treated as such until properly sampled by a qualified individual.

The USEPA has not prohibited the manufacture and import of miscellaneous materials containing asbestos, such as vinyl floorings, mastics, roofing materials, etc. As a result, any future replacement materials should be checked for the presence of asbestos prior to installation.

2.6 Asbestos Assumptions and Limitations

The results, findings, conclusions, and recommendations expressed in the report are based only on conditions that were noted during Atlas' survey of the Site. This survey was conducted from February 22 through 23 and March 15, 2024.

The selection of sample locations and frequency of sampling was based on Atlas' observations and the assumption that like materials in the same area were homogeneous in content. Destructive investigation was not conducted at the Site. Concealed ACMs may exist in areas not accessible during the inspection. Reasonable efforts have been made by Atlas personnel to locate and sample all suspect ACM. However, the existence of unique or concealed ACM and debris is a possibility. If any additional suspect ACM, not listed in the Survey, will be impacted during future demolition and/or renovation activities, Atlas recommends additional sampling of any suspect ACM.

The report is designed to aid the client in understanding the extent of ACM issues as they pertain to the planned renovation and/or demolition of the buildings. Atlas does not warrant, guarantee or profess to have the ability to locate or identify all ACM in a facility. The intent of this report is to be used in planning for the specific renovation/demolition project only, and is based on the scope of work provided to Atlas by the CC BB Brownfields Coalition. Should the scope of the project change, Atlas recommends that an additional investigation, including but not limited to, a review of the revised scope of work be performed to determine if ACM or suspect ACM will be impacted.

Appendix A

Certifications: Atlas Staff and Analytical Laboratories

THE ASBESTOS INSTITUTE

Certifies that

Chad Wells

has attended and received instruction in the EPA approved course

AHERA Building Inspector Refresher

on

June 29, 2023

and successfully completed and passed the competency exam.

Certificate:
ON-4644-12331-062923

Date of Examination:
29-Jun-2023
Date of Expiration:
29-Jun-2024

William T. Cavness
Director

Approved Instructor

THE ASBESTOS INSTITUTE
20033 N. 19th Ave, Building 6, Phoenix, AZ 85027
602-864-6564 – www.theasbestosinstitute.com

The person receiving this certificate has completed the requisite training for asbestos accreditation under TSCA Title II.

THE ASBESTOS INSTITUTE

Certifies that

Amayah Vaughn

has attended and received instruction in the EPA approved course

AHERA Building Inspector Refresher

on

November 29, 2023

and successfully completed and passed the competency exam.

Certificate:
ON-4644-14992-112923

Date of Examination:
29-Nov-2023

Date of Expiration:
29-Nov-2024

William T. Cavness
Director

Approved Instructor

THE ASBESTOS INSTITUTE
20033 N. 19th Ave, Building 6, Phoenix, AZ 85027
602-864-6564 – www.theasbestosinstitute.com

The person receiving this certificate has completed the requisite training for asbestos accreditation under TSCA Title II.

THE ASBESTOS INSTITUTE

Certifies that

Thomas Nelson

has attended and received instruction in the EPA approved course

AHERA Building Inspector Refresher

on

November 29, 2023

and successfully completed and passed the competency exam.

Certificate:
ON-4644-14993-112923

Date of Examination:
29-Nov-2023

Date of Expiration:
29-Nov-2024

William T. Cavness
Director

Approved Instructor

THE ASBESTOS INSTITUTE
20033 N. 19th Ave, Building 6, Phoenix, AZ 85027
602-864-6564 – www.theasbestosinstitute.com

The person receiving this certificate has completed the requisite training for asbestos accreditation under TSCA Title II.

THE ASBESTOS INSTITUTE

Certifies that

Derron Wright

has attended and received instruction in the EPA approved course

AHERA Building Inspector Initial

on

December 4-6 2023

and successfully completed and passed the competency exam.

Certificate:
4380-17072-120623

Date of Examination:
06-Dec-2023

Date of Expiration:
06-Dec-2024

William T. Cavness
Director

Approved Instructor

THE ASBESTOS INSTITUTE
20033 N. 19th Ave, Building 6, Phoenix, AZ 85027
602-864-6564 – www.theasbestosinstitute.com

The person receiving this certificate has completed the requisite training for asbestos accreditation under TSCA Title II.

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101031-0

Fiberquant, Inc.

Phoenix, AZ

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2023-07-01 through 2024-06-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Fiberquant, Inc.
5025 S. 33rd St.
Phoenix, AZ 85040-2186
Mr. Michael Breu
Phone: 602-276-6139 Fax: 602-276-4558
Email: michaelb@fiberquant.com
http://www.fiberquant.com

ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 101031-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

Appendix B

Site Plan and Asbestos Sample Location Maps

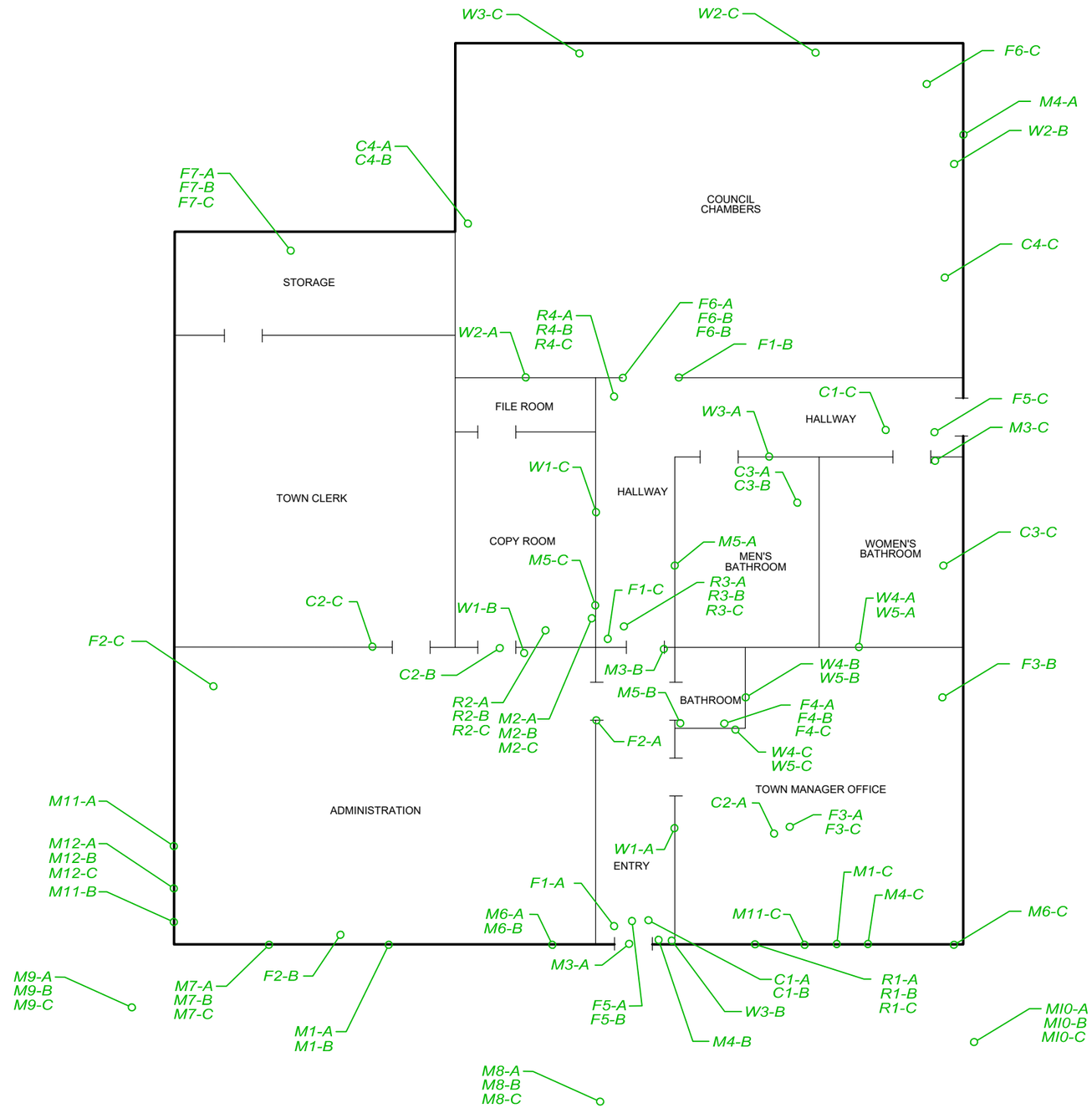
C:\USERS\MILES.SHARPLESS\ONEATLAS\DIGITAL SERVICES - FILE SERVER\2024\CAD DEPARTMENT\GILA COUNTY CONTRACTOR MANAGEMENT\KEARNY TOWN HALL & TEEN CENTER\1052000242-REG.DWG, FIG1

Project Number: 1052000242 - PHASE 13
Date: 04/01/2024
Drn. By: MS
Chd. By: KT
Scale: AS SHOWN
Figure: 1

SITE PLAN

KEARNY TOWN HALL
912 (B & C) TILBURY DRIVE
KEARNY, ARIZONA

ATLAS



LEGEND:

- ACM NEGATIVE SAMPLE
- ACM POSITIVE SAMPLE

N

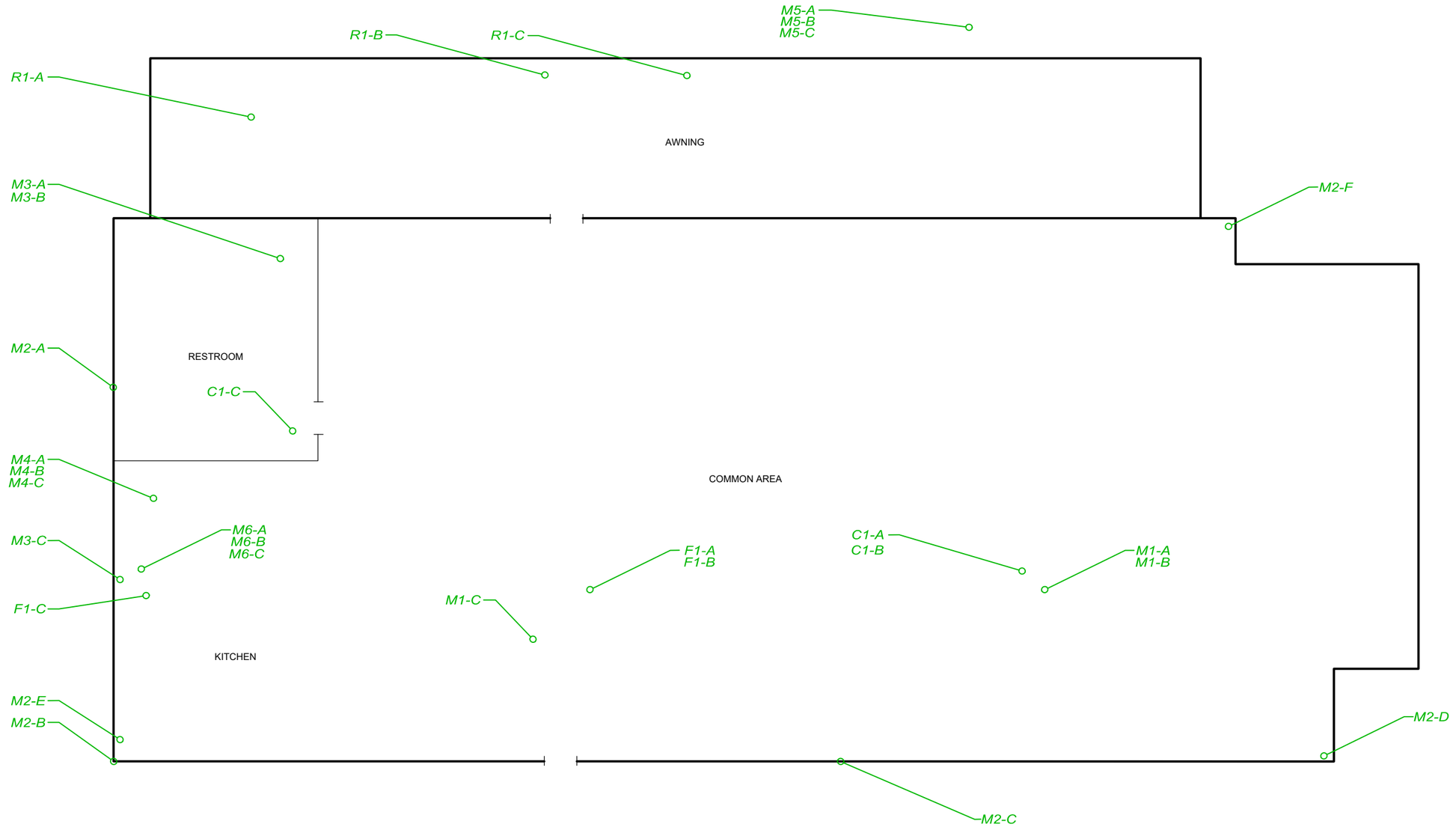
NOT TO SCALE

ACM SAMPLE LOCATION MAP

TOWN HALL
912 (B & C) TILBURY DRIVE
KEARNY, ARIZONA

Project Number: 1052000242 - PHASE 13	
Date: 04/03/2024	
Drn. By: MS	Ckd. By: KT
Scale: AS SHOWN	
Figure: 4	

C:\USERS\MILES.SHARPLESS\ONEATLAS\DIGITAL SERVICES - FILE SERVER\2024\CAD DEPARTMENT\GILA COUNTY CONTRACTOR MANAGEMENT\KEARNY TOWN HALL & TEEN CENTER\1052000242-ACM1.DWG, FIG4A



LEGEND:
- ACM NEGATIVE SAMPLE
- ACM POSITIVE SAMPLE

N

NOT TO SCALE

ACM SAMPLE LOCATION MAP

TEEN CENTER
912 (B & C) TILBURY DRIVE
KEARNY, ARIZONA

Project Number: 1052000242 - PHASE 13	
Date: 04/03/2024	
Drn. By: MS	Ckd. By: KT
Scale: AS SHOWN	
Figure: 5	

C:\USERS\MILES.SHARPLESS\ONEATLAS\DIGITAL SERVICES - FILE SERVER\2024\CAD DEPARTMENT\GILA COUNTY CONTRACTOR MANAGEMENT\KEARNY TOWN HALL & TEEN CENTER\1052000242-ACM.DWG, FIG5A

Appendix C

Analytical Laboratory Reports and Chain-of-Custody Documentation

FIBERQUANT ANALYTICAL SERVICES

Polarized Light Microscope (PLM) Analysis for Asbestos in Bulk Sample

JobNumber:	**202402172**

Client: **ATC GROUP SERVICES/ATLAS**

9185 S FARMER AVE STE 111

TEMPE, AZ 85284-0000

Office Phone: (480) 894-2056
FAX: (480) 894-2497

 # Samples: 96 PLM **Rec:** 2/23/2024 **Method:** EPA 600/R-93/116 The "New" Method; see below

Client Job: Kearny Town Hall 912-B Tilbury Dr,Kearny **PO Number:** 10520000242

Report Date: 3/1/2024 **Date Analyzed:** 2/29/2024 **Routing Number:** AZ 85137

Method and Analysis Information: **Fiberquant Internal SOP:** PLMn

Each bulk sample is first dissected under a 7-30x magnification stereo-microscope. This examination is used to determine the general type of sample, how many and what type of layers it has, and initial estimates of fiber types and quantities. Second, liquid media mounts are made of each layer - such mounts may be of selected fibers (used solely for identification purposes) or may be representative of the layer as a whole (used for quantitation purposes). The mounts may be made in a synthetic Canadian balsam, one of several solvents, or in refractive index oils (media of known refractive index). Generally, a variety of different mounts are made: some optimized for fiber visibility, some optimized for fiber identification, and some optimized for fiber quantitation. The mounted slides are then examined at 50-400x magnification on a Nikon Labphot-pol microscope. Optical characteristics are used to identify each observed fiber type; the optical data are contained for each sample on its detail analysis sheet, attached.

Current EPA and NESHAP regulations designate a result of ≤1 % asbestos as "negative" or "non-regulated"and >1 % asbestos as "positive" or "regulated." Samples containing layers that have been determined to be "positive" may have to be handled differently during a renovation or demolition than samples whose layers have been determined to be "negative." OSHA under CFR 1926.1101 regulates work done involving any detectable concentration of asbestos.

The method of fiber identification and quantitation is the "Standard Operating Procedures for the Analysis of Asbestos in Bulk Samples using Polarized Light Microscopy", Chapter 7 of the Quality Assurance and Management Manual. This SOP and its associated reporting have been designed to satisfy all requirements in both EPA Method 600/M4-82-020 (The Interim Method) and EPA Method 600/R-93/116 (The New Method). The Interim Method is the required method for AHERA (US EPA 40 CFR Pt. 763), but this method calls for the reporting of composited results of multi-layered samples that is no longer an acceptable reporting practice in most circumstances. Current EPA rules, such as NESHAP (US EPA 40 CFR Pt. 61), as well as NVLAP accreditation policies, call for separate reporting for each layer of multi-layered samples. The New Method contains the same procedures for identification and quantification of asbestos as does the Interim Method, except that multi-layered samples are reported to comply with the latest US EPA rule. Fiberquant not only reports the asbestos content of each layer of multi-layered samples separately (satisfying current EPA and NVLAP reporting requirements), but Fiberquant also reports what percentage of the sample each layer comprises. Therefore, the results may be arithmetically composited to satisfy the reporting requirements of the Interim Method. The method of fiber quantitation is an estimation technique in which the analysts quantitation is routinely calibrated by reference quantitation standards, and which has been shown to be equivalent in precision and accuracy to point counting. Friability is estimated for the purposes of deciding when to point count. Friabilities determined in the field take precedence over those determined in the laboratory. Those sample layers which are friable and estimated by the analyst to contain <= 1% asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Polutants, Nov. 1990) in order to rely on analytical results that are ≤ 1%. The coefficient of variation for the estimation quantitation technique is 100% in the range 0-5%. This means that PLM analysis is not capable of conclusively determining whether a layer containing close to 1% asbestos is actually "positive" or "negative". For this reason, Fiberquant refers to results where asbestos was detected but ≤ 1% as "borderline negative", and results where asbestos was >1 % but <= 2% as "borderline positive" to indicate the uncertainty in assigning a "positive" or "negative" label. In the sample summary, "ND" means that no asbestos was detected during the analysis. A "Tr" or "Trace" of asbestos reported is defined for our purposes as the detection of several asbestos fibers during the analysis; this level would be right at the limit of detection for the method. Trace is only reported on the analysis detail - in the summary a trace would be reported as <=1%. The limit of detection (the smallest % of asbestos that can be detected) varies greatly depending on the matrix in which the asbestos is found. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 1% stated in the method. During the analysis, the analyst, for Fiberquant identification purposes only, determines the "apparent sample type" and "apparent layer types." It must be emphasized that these types are only what is apparent. Often, different materials appear similar or identical after sampling, so the analyst may assign a type other than what was sampled.

Floor tiles present a special problem for PLM asbestos analysis. Floor tile can contain chrysotile fibers so thin that they cannot be resolved by optical methods. In such a case, we may observe a percentage of asbestos which is lower than the actual percentage, or not observe asbestos at all when some is present. For this reason, floor tiles reported as negative should be confirmed to be negative using transmission electron microscope (TEM) analysis. Likewise, vermiculite insulation materials containing traces of asbestiform asbestos present a problem for routine PLM analysis - the amphiboles are sometimes present in trace amounts inhomogeneously distributed. For this reason, loose vermiculite samples reported as negative should be confirmed to contain no amphibole using hydroseparation techniques.

The samples were analyzed under the following ongoing quality assurance program: Blank samples are routinely analyzed to maintain contamination-free materials. Each analyst has at least a bachelor's degree in physical science, and has also completed extensive training specific to asbestos analysis for 1-3 months before being allowed to analyze client samples. Qualitative reference samples are routinely analyzed to assure that analysts

can identify asbestos and asbestos-look-alike fibers. Quantitative reference samples are routinely analyzed to calibrate and characterize the estimation procedure. Microscope alignment is checked each day. Refractive index oils are calibrated at least quarterly. At least 10% of client samples are re-analyzed from scratch by a different analyst than the original, and any discrepancies are resolved for the sample and similar sample types before the results are reported. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. All analysts participate in interlab round robins and proficiency testing to assure competence. Fiberquant is accredited by NVLAP (Lab code #101031) for the analysis of bulk samples for asbestos using PLM. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical Services.

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

PLM Analysis Summary: **Job Number: 202402172** Kearny Town Hall 912-B Tilbury Dr,Kea

Sample Number / Layer	Color	Apparent Layer Type *	Lab Number	Apparent Sample Type *	Asbestos Detected Yes or No
			Asbestos Results		
Sample # **F1-A**			2024-02172- 1	Flooring	Asbestos Detected? No
Layer # 1	off-white	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Layer # 3	green	floor tile	*no asbestos detected*		
Layer # 4	yellow	mastic	*no asbestos detected*		
Layer # 5	white	leveling compound	*no asbestos detected*		
Sample # **F1-B**			2024-02172- 2	Flooring	Asbestos Detected? No
Layer # 1	off-white	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Layer # 3	green	floor tile	*no asbestos detected*		
Layer # 4	yellow	mastic	*no asbestos detected*		
Layer # 5	white	leveling compound	*no asbestos detected*		
Sample # **F1-C**			2024-02172- 3	Flooring	Asbestos Detected? No
Layer # 1	off-white	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Layer # 3	green	floor tile	*no asbestos detected*		
Layer # 4	yellow	mastic	*no asbestos detected*		
Layer # 5	white	leveling compound	*no asbestos detected*		
Sample # **F2-A**			2024-02172- 4	Carpet	Asbestos Detected? No
Layer # 1	various	carpet	*no asbestos detected*		
Sample # **F2-B**			2024-02172- 5	Carpet	Asbestos Detected? No
Layer # 1	various	carpet	*no asbestos detected*		
Sample # **F2-C**			2024-02172- 6	Carpet	Asbestos Detected? No
Layer # 1	various	carpet	*no asbestos detected*		
Sample # **F3-A**			2024-02172- 7	Carpet	Asbestos Detected? No
Layer # 1	various	carpet	*no asbestos detected*		
Layer # 2	tan	mastic	*no asbestos detected*		
Sample # **F3-B**			2024-02172- 8	Carpet	Asbestos Detected? No
Layer # 1	various	carpet	*no asbestos detected*		
Layer # 2	tan	mastic	*no asbestos detected*		
Sample # **F3-C**			2024-02172- 9	Carpet	Asbestos Detected? No
Layer # 1	various	carpet	*no asbestos detected*		
Layer # 2	tan	mastic	*no asbestos detected*		
Sample # **F4-A**			2024-02172- 10	Miscellaneous	Asbestos Detected? No
Layer # 1	tan	ceramic	*no asbestos detected*		
Layer # 2	gray	grout	*no asbestos detected*		
Layer # 3	gray	mortar	*no asbestos detected*		
Sample # **F4-B**			2024-02172- 11	Miscellaneous	Asbestos Detected? No
Layer # 1	tan	ceramic	*no asbestos detected*		
Layer # 2	gray	grout	*no asbestos detected*		
Layer # 3	gray	mortar	*no asbestos detected*		
Sample # **F4-C**			2024-02172- 12	Miscellaneous	Asbestos Detected? No
Layer # 1	tan	ceramic	*no asbestos detected*		
Layer # 2	gray	grout	*no asbestos detected*		
Layer # 3	gray	mortar	*no asbestos detected*		
Sample # **F5-A**			2024-02172- 13	Cementitious	Asbestos Detected? No
Layer # 1	gray	concrete	*no asbestos detected*		
Sample # **F5-B**			2024-02172- 14	Cementitious	Asbestos Detected? No
Layer # 1	gray	concrete	*no asbestos detected*		
Sample # **F5-C**			2024-02172- 15	Cementitious	Asbestos Detected? No
Layer # 1	gray	concrete	*no asbestos detected*		
Sample # **F6-A**			2024-02172- 16	Carpet	Asbestos Detected? No
Layer # 1	various	carpet	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		

Sample # **F6-B**			2024-02172- 17	Carpet	Asbestos Detected? No
Layer # 1	various	carpet	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample # **F6-C**			2024-02172- 18	Carpet	Asbestos Detected? No
Layer # 1	various	carpet	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample # **F7-A**			2024-02172- 19	Flooring	Asbestos Detected? No
Layer # 1	off-white	flooring	*no asbestos detected*		
Layer # 2	clear	mastic	*no asbestos detected*		
Sample # **F7-B**			2024-02172- 20	Flooring	Asbestos Detected? No
Layer # 1	off-white	flooring	*no asbestos detected*		
Layer # 2	clear	mastic	*no asbestos detected*		
Sample # **F7-C**			2024-02172- 21	Flooring	Asbestos Detected? No
Layer # 1	off-white	flooring	*no asbestos detected*		
Layer # 2	clear	mastic	*no asbestos detected*		
Sample # **W1-A**			2024-02172- 22	Wall System	Asbestos Detected? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*no asbestos detected*		
Sample # **W1-B**			2024-02172- 23	Wall System	Asbestos Detected? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*no asbestos detected*		
Sample # **W1-C**			2024-02172- 24	Wall System	Asbestos Detected? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*no asbestos detected*		
Sample # **W2-A**			2024-02172- 25	Wall System	Asbestos Detected? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Layer # 3	white	drywall core	*no asbestos detected*		
Sample # **W2-B**			2024-02172- 26	Wall System	Asbestos Detected? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Layer # 3	white	drywall core	*no asbestos detected*		
Sample # **W2-C**			2024-02172- 27	Wall System	Asbestos Detected? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Layer # 3	white	drywall core	*no asbestos detected*		
Sample # **W3-A**			2024-02172- 28	Miscellaneous	Asbestos Detected? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	brown	base cove	*no asbestos detected*		
Layer # 3	off-white	mastic	*no asbestos detected*		
Sample # **W3-B**			2024-02172- 29	Miscellaneous	Asbestos Detected? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	brown	base cove	*no asbestos detected*		
Layer # 3	off-white	mastic	*no asbestos detected*		
Sample # **W3-C**			2024-02172- 30	Miscellaneous	Asbestos Detected? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	brown	base cove	*no asbestos detected*		
Layer # 3	off-white	mastic	*no asbestos detected*		
Sample # **W4-A**			2024-02172- 31	Wall System	Asbestos Detected? No
Layer # 1	tan	paper/cardboard	*no asbestos detected*		
Layer # 2	white	drywall core	*no asbestos detected*		
Sample # **W4-B**			2024-02172- 32	Wall System	Asbestos Detected? No
Layer # 1	tan	paper/cardboard	*no asbestos detected*		
Layer # 2	white	drywall core	*no asbestos detected*		
Sample # **W4-C**			2024-02172- 33	Wall System	Asbestos Detected? No
Layer # 1	tan	paper/cardboard	*no asbestos detected*		
Layer # 2	white	drywall core	*no asbestos detected*		
Sample # **W5-A**			2024-02172- 34	Adhesive/caulk	Asbestos Detected? No
Layer # 1	brown	mastic	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Sample # **W5-B**			2024-02172- 35	Adhesive/caulk	Asbestos Detected? No
Layer # 1	brown	mastic	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Sample # **W5-C**			2024-02172- 36	Adhesive/caulk	Asbestos Detected? No
Layer # 1	brown	mastic	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Sample # **C1-A**			2024-02172- 37	Wall System	Asbestos Detected? No
Layer # 1	white	texture/joint compound	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Layer # 3	white	drywall core	*no asbestos detected*		
Sample # **C1-B**			2024-02172- 38	Wall System	Asbestos Detected? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*no asbestos detected*		
Layer # 3	tan	paper/cardboard	*no asbestos detected*		

Sample # **C1-C**			2024-02172- 39 Wall System	Asbestos Detected? No
Layer # 1	off-white	paint	*no asbestos detected*	
Layer # 2	white	texture/joint compound	*no asbestos detected*	
Layer # 3	tan	paper/cardboard	*no asbestos detected*	
Sample # **C2-A**			2024-02172- 40 Ceiling System	Asbestos Detected? No
Layer # 1	white	spray-on ceiling	*no asbestos detected*	
Layer # 2	tan	paper/cardboard	*no asbestos detected*	
Layer # 3	white	drywall core	*no asbestos detected*	
Sample # **C2-B**			2024-02172- 41 Ceiling System	Asbestos Detected? No
Layer # 1	white	spray-on ceiling	*no asbestos detected*	
Layer # 2	tan	paper/cardboard	*no asbestos detected*	
Layer # 3	white	drywall core	*no asbestos detected*	
Sample # **C2-C**			2024-02172- 42 Ceiling System	Asbestos Detected? No
Layer # 1	white	spray-on ceiling	*no asbestos detected*	
Layer # 2	tan	paper/cardboard	*no asbestos detected*	
Layer # 3	white	drywall core	*no asbestos detected*	
Sample # **C3-A**			2024-02172- 43 Wall System	Asbestos Detected? No
Layer # 1	white	paint	*no asbestos detected*	
Layer # 2	white	texture/joint compound	*no asbestos detected*	
Layer # 3	tan	paper/cardboard	*no asbestos detected*	
Layer # 4	white	drywall core	*no asbestos detected*	
Sample # **C3-B**			2024-02172- 44 Wall System	Asbestos Detected? No
Layer # 1	white	texture/joint compound	*no asbestos detected*	
Layer # 2	tan	paper/cardboard	*no asbestos detected*	
Layer # 3	white	drywall core	*no asbestos detected*	
Sample # **C3-C**			2024-02172- 45 Wall System	Asbestos Detected? No
Layer # 1	white	texture/joint compound	*no asbestos detected*	
Layer # 2	tan	paper/cardboard	*no asbestos detected*	
Layer # 3	white	drywall core	*no asbestos detected*	
Sample # **C4-A**			2024-02172- 46 Wall System	Asbestos Detected? No
Layer # 1	off-white	paint	*no asbestos detected*	
Layer # 2	tan	paper/cardboard	*no asbestos detected*	
Layer # 3	white	drywall core	*no asbestos detected*	
Sample # **C4-B**			2024-02172- 47 Wall System	Asbestos Detected? No
Layer # 1	off-white	paint	*no asbestos detected*	
Layer # 2	tan	paper/cardboard	*no asbestos detected*	
Layer # 3	white	drywall core	*no asbestos detected*	
Sample # **C4-C**			2024-02172- 48 Wall System	Asbestos Detected? No
Layer # 1	off-white	paint	*no asbestos detected*	
Layer # 2	tan	paper/cardboard	*no asbestos detected*	
Layer # 3	white	drywall core	*no asbestos detected*	
Sample # **M1-A**			2024-02172- 49 Cementitious	Asbestos Detected? No
Layer # 1	tan	block	*no asbestos detected*	
Layer # 2	gray	mortar	*no asbestos detected*	
Sample # **M1-B**			2024-02172- 50 Cementitious	Asbestos Detected? No
Layer # 1	tan	block	*no asbestos detected*	
Layer # 2	gray	mortar	*no asbestos detected*	
Sample # **M1-C**			2024-02172- 51 Cementitious	Asbestos Detected? No
Layer # 1	tan	block	*no asbestos detected*	
Layer # 2	gray	mortar	*no asbestos detected*	
Sample # **M2-A**			2024-02172- 52 Miscellaneous	Asbestos Detected? No
Layer # 1	brown	coating	*no asbestos detected*	
Sample # **M2-B**			2024-02172- 53 Miscellaneous	Asbestos Detected? No
Layer # 1	brown	coating	*no asbestos detected*	
Sample # **M2-C**			2024-02172- 54 Miscellaneous	Asbestos Detected? No
Layer # 1	brown	coating	*no asbestos detected*	
Sample # **M3-A**			2024-02172- 55 Adhesive/caulk	Asbestos Detected? No
Layer # 1	white	paint	*no asbestos detected*	
Layer # 2	white	sealant	*no asbestos detected*	
Sample # **M3-B**			2024-02172- 56 Adhesive/caulk	Asbestos Detected? No
Layer # 1	white	paint	*no asbestos detected*	
Layer # 2	white	sealant	*no asbestos detected*	
Sample # **M3-C**			2024-02172- 57 Adhesive/caulk	Asbestos Detected? No
Layer # 1	white	paint	*no asbestos detected*	
Layer # 2	white	sealant	*no asbestos detected*	
Sample # **M4-A**			2024-02172- 58 Adhesive/caulk	Asbestos Detected? No
Layer # 1	white	paint	*no asbestos detected*	
Layer # 2	white	sealant	*no asbestos detected*	
Sample # **M4-B**			2024-02172- 59 Adhesive/caulk	Asbestos Detected? No
Layer # 1	white	paint	*no asbestos detected*	
Layer # 2	white	sealant	*no asbestos detected*	
Sample # **M4-C**			2024-02172- 60 Adhesive/caulk	Asbestos Detected? No
Layer # 1	white	paint	*no asbestos detected*	
Layer # 2	white	sealant	*no asbestos detected*	

Sample # **M5-A**			2024-02172- 61	Adhesive/caulk	Asbestos Detected? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	white	caulk	*no asbestos detected*		
Sample # **M5-B**			2024-02172- 62	Adhesive/caulk	Asbestos Detected? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	white	caulk	*no asbestos detected*		
Sample # **M5-C**			2024-02172- 63	Adhesive/caulk	Asbestos Detected? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	white	caulk	*no asbestos detected*		
Sample # **M6-A**			2024-02172- 64	Adhesive/caulk	Asbestos Detected? No
Layer # 1	red	paint	*no asbestos detected*		
Layer # 2	black	sealant	*no asbestos detected*		
Layer # 3	white	sealant	*no asbestos detected*		
Layer # 4	gray	debris	*no asbestos detected*		
Sample # **M6-B**			2024-02172- 65	Adhesive/caulk	Asbestos Detected? No
Layer # 1	red	paint	*no asbestos detected*		
Layer # 2	black	sealant	*no asbestos detected*		
Layer # 3	white	sealant	*no asbestos detected*		
Sample # **M6-C**			2024-02172- 66	Adhesive/caulk	Asbestos Detected? No
Layer # 1	red	paint	*no asbestos detected*		
Layer # 2	black	sealant	*no asbestos detected*		
Layer # 3	white	sealant	*no asbestos detected*		
Sample # **M7-A**			2024-02172- 67	Adhesive/caulk	Asbestos Detected? No
Layer # 1	gray	sealant	*no asbestos detected*		
Layer # 2	white	sealant	*no asbestos detected*		
Sample # **M7-B**			2024-02172- 68	Adhesive/caulk	Asbestos Detected? No
Layer # 1	gray	sealant	*no asbestos detected*		
Layer # 2	white	sealant	*no asbestos detected*		
Sample # **M7-C**			2024-02172- 69	Adhesive/caulk	Asbestos Detected? No
Layer # 1	gray	sealant	*no asbestos detected*		
Layer # 2	white	sealant	*no asbestos detected*		
Sample # **M8-A**			2024-02172- 70	Cementitious	Asbestos Detected? No
Layer # 1	gray	concrete	*no asbestos detected*		
Sample # **M8-B**			2024-02172- 71	Cementitious	Asbestos Detected? No
Layer # 1	gray	concrete	*no asbestos detected*		
Sample # **M8-C**			2024-02172- 72	Cementitious	Asbestos Detected? No
Layer # 1	gray	concrete	*no asbestos detected*		
Sample # **M9-A**			2024-02172- 73	Miscellaneous	Asbestos Detected? No
Layer # 1	various	paint	*no asbestos detected*		
Sample # **M9-B**			2024-02172- 74	Miscellaneous	Asbestos Detected? No
Layer # 1	various	paint	*no asbestos detected*		
Sample # **M9-C**			2024-02172- 75	Miscellaneous	Asbestos Detected? No
Layer # 1	various	paint	*no asbestos detected*		
Sample # **M10-A**			2024-02172- 76	Cementitious	Asbestos Detected? No
Layer # 1	black	asphalt	*no asbestos detected*		
Sample # **M10-B**			2024-02172- 77	Cementitious	Asbestos Detected? No
Layer # 1	black	asphalt	*no asbestos detected*		
Sample # **M10-C**			2024-02172- 78	Cementitious	Asbestos Detected? No
Layer # 1	black	asphalt	*no asbestos detected*		
Sample # **M11-A**			2024-02172- 79	Insulation	Asbestos Detected? No
Layer # 1	yellow	insulation	*no asbestos detected*		
Sample # **M11-B**			2024-02172- 80	Insulation	Asbestos Detected? No
Layer # 1	yellow	insulation	*no asbestos detected*		
Sample # **M11-C**			2024-02172- 81	Insulation	Asbestos Detected? No
Layer # 1	yellow	insulation	*no asbestos detected*		
Sample # **R1-A**			2024-02172- 82	Roofing	Asbestos Detected? No
Layer # 1	black	roofing roll/shingle	*no asbestos detected*		
Layer # 2	black	bitumen sheeting	*no asbestos detected*		
Sample # **R1-B**			2024-02172- 83	Roofing	Asbestos Detected? No
Layer # 1	black	roofing roll/shingle	*no asbestos detected*		
Layer # 2	black	bitumen sheeting	*no asbestos detected*		
Sample # **R1-C**			2024-02172- 84	Roofing	Asbestos Detected? No
Layer # 1	black	roofing roll/shingle	*no asbestos detected*		
Layer # 2	black	bitumen sheeting	*no asbestos detected*		
Sample # **R2-A**			2024-02172- 85	Adhesive/caulk	Asbestos Detected? No
Layer # 1	white	sealant	*no asbestos detected*		
Layer # 2	black	bitumen	*no asbestos detected*		
Sample # **R2-B**			2024-02172- 86	Adhesive/caulk	Asbestos Detected? No
Layer # 1	white	sealant	*no asbestos detected*		
Layer # 2	black	bitumen	*no asbestos detected*		
Sample # **R2-C**			2024-02172- 87	Adhesive/caulk	Asbestos Detected? No
Layer # 1	white	sealant	*no asbestos detected*		
Layer # 2	black	bitumen	*no asbestos detected*		

Sample # **R3-A**			2024-02172- 88	Adhesive/caulk	Asbestos Detected? No
Layer # 1	gray	sealant	*no asbestos detected*		
Layer # 2	silver	metal	*no asbestos detected*		
Sample # **R3-B**			2024-02172- 89	Adhesive/caulk	Asbestos Detected? No
Layer # 1	gray	sealant	*no asbestos detected*		
Layer # 2	silver	metal	*no asbestos detected*		
Sample # **R3-C**			2024-02172- 90	Adhesive/caulk	Asbestos Detected? No
Layer # 1	gray	sealant	*no asbestos detected*		
Layer # 2	silver	metal	*no asbestos detected*		
Sample # **R4-A**			2024-02172- 91	Adhesive/caulk	Asbestos Detected? No
Layer # 1	silver	sealant	*no asbestos detected*		
Sample # **R4-B**			2024-02172- 92	Adhesive/caulk	Asbestos Detected? No
Layer # 1	silver	sealant	*no asbestos detected*		
Sample # **R4-C**			2024-02172- 93	Adhesive/caulk	Asbestos Detected? No
Layer # 1	silver	sealant	*no asbestos detected*		
Sample # **M12-A**			2024-02172- 94	Insulation	Asbestos Detected? Yes
Layer # 1	gold	vermiculite	*<=1% tremolite/actinolite asbestos*		
Sample # **M12-B**			2024-02172- 95	Insulation	Asbestos Detected? Yes
Layer # 1	gold	vermiculite	*<=1% tremolite/actinolite asbestos*		
Sample # **M12-C**			2024-02172- 96	Insulation	Asbestos Detected? Yes
Layer # 1	gold	vermiculite	*<=1% tremolite/actinolite asbestos*		

* Apparent Sample Types and Apparent Layer Types are as they appeared to the analyst. Since many types of materials appear similar after sampling damage, the apparent type of material may not be the actual type of material.

Sample F1-A **Lab Number** 2024-02172- 1 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid

Homogeneous No **# Layers** 5 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): filler, polymer, powder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	45	off-white	1	n.d.	-	-	-	-	-
2	mastic	1	yellow	1	n.d.	-	-	-	-	-
3	floor tile	53	green	1	n.d.	-	-	-	-	-
4	mastic	0.1	yellow	1	n.d.	-	-	-	-	-
5	leveling compound	0.9	white	3	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent. Procedure: dissolution of matrix using dilute HCl acid.

Sample F1-B **Lab Number** 2024-02172- 2 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid

Homogeneous No **# Layers** 5 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): filler, polymer, powder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	28	off-white	1	n.d.	-	-	-	-	-
2	mastic	1	yellow	1	n.d.	-	-	-	-	-
3	floor tile	70	green	1	n.d.	-	-	-	-	-
4	mastic	0.1	yellow	1	n.d.	-	-	-	-	-
5	leveling compound	0.9	white	3	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent. Procedure: dissolution of matrix using dilute HCl acid.

Sample F1-C **Lab Number** 2024-02172- 3 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid

Homogeneous No **# Layers** 5 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): filler, polymer, powder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	60	off-white	1	n.d.	-	-	-	-	-
2	mastic	1	yellow	1	n.d.	-	-	-	-	-
3	floor tile	38	green	1	n.d.	-	-	-	-	-
4	mastic	0.1	yellow	1	n.d.	-	-	-	-	-
5	leveling compound	0.9	white	3	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent. Procedure: dissolution of matrix using dilute HCl acid.

Sample F2-A **Lab Number** 2024-02172- 4 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Carpet Fibrous Mat

Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, polymer foam, filler

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	carpet	100	various	1	50-60%	-	-	-	-	-
	Total %	100		**Overall %**	50-60%	-	-	-	-	-
				Fiber Identification:	synthetic fiber (extr					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	synthetic fiber (extruded)	V	E	N	N	H	+	P					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample F2-B **Lab Number** 2024-02172- 5 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Carpet Fibrous Mat
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, polymer foam, filler

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	carpet	100	various	1	50-60%	-	-	-	-	-
	Total %	100		**Overall %**	50-60%	-	-	-	-	-
				Fiber Identification:	synthetic fiber (extr					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	synthetic fiber (extruded)	V	E	N	N	H	+	P					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample F2-C **Lab Number** 2024-02172- 6 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Carpet Fibrous Mat
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, polymer foam, filler

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	carpet	100	various	1	50-60%	-	-	-	-	-
	Total %	100		**Overall %**	50-60%	-	-	-	-	-
				Fiber Identification:	synthetic fiber (extr					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	synthetic fiber (extruded)	V	E	N	N	H	+	P					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample F3-A **Lab Number** 2024-02172- 7 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Carpet Fibrous Mat
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, polymer foam, filler

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	carpet	95	various	1	50-60%	-	-	-	-	-
2	mastic	5	tan	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	50-60%	-	-	-	-	-
				Fiber Identification:	synthetic fiber (extr					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	synthetic fiber (extruded)	V	E	N	N	H	+	P					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample F3-B **Lab Number** 2024-02172- 8 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Carpet Fibrous Mat

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, polymer foam, filler

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	carpet	95	various	1	50-60%	-	-	-	-	-
2	mastic	5	tan	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	50-60%	-	-	-	-	-
				Fiber Identification:	synthetic fiber (extr					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	synthetic fiber (extruded)	V	E	N	N	H	+	P					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample F3-C **Lab Number** 2024-02172- 9 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Carpet Fibrous Mat

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, polymer foam, filler

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	carpet	95	various	1	50-60%	-	-	-	-	-
2	mastic	5	tan	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	50-60%	-	-	-	-	-
				Fiber Identification:	synthetic fiber (extr					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	synthetic fiber (extruded)	V	E	N	N	H	+	P					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample F4-A **Lab Number** 2024-02172- 10 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): ceramic, powder, rock

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	ceramic	34	tan	1	n.d.	-	-	-	-	-
2	grout	33	gray	2	n.d.	-	-	-	-	-
3	mortar	33	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of cementitious matrices using acid.

Sample F4-B **Lab Number** 2024-02172- 11 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): ceramic, powder, rock

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	ceramic	90	tan	1	n.d.	-	-	-	-	-
2	grout	5	gray	2	n.d.	-	-	-	-	-
3	mortar	5	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of cementitious matrices using acid.

Sample F4-C **Lab Number** 2024-02172- 12 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): ceramic, powder, rock

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	ceramic	98	tan	1	n.d.	-	-	-	-	-
2	grout	1	gray	2	n.d.	-	-	-	-	-
3	mortar	1	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of cementitious matrices using acid.

Sample F5-A **Lab Number** 2024-02172- 13 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid

Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	concrete	100	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Sample F5-B **Lab Number** 2024-02172- 14 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid

Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	concrete	100	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Sample F5-C **Lab Number** 2024-02172- 15 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid

Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	concrete	100	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Sample F6-A **Lab Number** 2024-02172- 16 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Carpet Fibrous Mat

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	carpet	99.5	various	2	80-90%	-	-	-	-	-
2	mastic	0.5	yellow	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	80-90%	-	-	-	-	-
				Fiber Identification:	synthetic fiber (extr					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	synthetic fiber (extruded)	V	E	N	N	H	+	P					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample F6-B **Lab Number** 2024-02172- 17 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Carpet Fibrous Mat

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	carpet	99.5	various	2	80-90%	-	-	-	-	-
2	mastic	0.5	yellow	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	80-90%	-	-	-	-	-
				Fiber Identification:	synthetic fiber (extr					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	synthetic fiber (extruded)	V	E	N	N	H	+	P					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample F6-C **Lab Number** 2024-02172- 18 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Carpet Fibrous Mat

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	carpet	99.5	various	2	80-90%	-	-	-	-	-
2	mastic	0.5	yellow	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	80-90%	-	-	-	-	-
				Fiber Identification:	synthetic fiber (extr					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	synthetic fiber (extruded)	V	E	N	N	H	+	P					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample F7-A **Lab Number** 2024-02172- 19 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	flooring	99	off-white	1	n.d.	-	-	-	-	-
2	mastic	1	clear	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample F7-B **Lab Number** 2024-02172- 20 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	flooring	99	off-white	1	n.d.	-	-	-	-	-
2	mastic	1	clear	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample F7-C **Lab Number** 2024-02172- 21 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	flooring	99	off-white	1	n.d.	-	-	-	-	-
2	mastic	1	clear	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample W1-A **Lab Number** 2024-02172- 22 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	off-white	1	n.d.	-	-	-	-	-
2	texture/joint compound	98	white	3	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid.

Sample W1-B **Lab Number** 2024-02172- 23 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	off-white	1	n.d.	-	-	-	-	-
2	texture/joint compound	99	white	3	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid.

Sample W1-C **Lab Number** 2024-02172- 24 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	off-white	1	n.d.	-	-	-	-	-
2	texture/joint compound	99	white	3	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid.

Sample W2-A **Lab Number** 2024-02172- 25 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	off-white	1	n.d.	-	-	-	-	-
2	paper/cardboard	10	tan	2	90-100%	-	-	-	-	-
3	drywall core	89	white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	10-20%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent.

Sample W2-B **Lab Number** 2024-02172- 26 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	off-white	1	n.d.	-	-	-	-	-
2	paper/cardboard	24	tan	2	90-100%	-	-	-	-	-
3	drywall core	75	white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	20-30%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent.

Sample W2-C **Lab Number** 2024-02172- 27 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	off-white	1	n.d.	-	-	-	-	-
2	paper/cardboard	49	tan	2	90-100%	-	-	-	-	-
3	drywall core	50	white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	40-50%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent.

Sample W3-A **Lab Number** 2024-02172- 28 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler, binder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	white	1	n.d.	-	-	-	-	-
2	base cove	95	brown	1	n.d.	-	-	-	-	-
3	mastic	4	off-white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Minor adhering wall materials, paint and/or texture, etc. were not analyzed.

Sample W3-B **Lab Number** 2024-02172- 29 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler, binder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	white	1	n.d.	-	-	-	-	-
2	base cove	97	brown	1	n.d.	-	-	-	-	-
3	mastic	2	off-white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Minor adhering wall materials, paint and/or texture, etc. were not analyzed.

Sample W3-C **Lab Number** 2024-02172- 30 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler, binder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	white	1	n.d.	-	-	-	-	-
2	base cove	95	brown	1	n.d.	-	-	-	-	-
3	mastic	4	off-white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Minor adhering wall materials, paint and/or texture, etc. were not analyzed.

Sample W4-A **Lab Number** 2024-02172- 31 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paper/cardboard	40	tan	2	90-100%	-	-	-	-	-
2	drywall core	60	white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	30-40%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps.

Sample W4-B **Lab Number** 2024-02172- 32 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paper/cardboard	55	tan	2	90-100%	-	-	-	-	-
2	drywall core	45	white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	50-60%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps.

Sample W4-C **Lab Number** 2024-02172- 33 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paper/cardboard	35	tan	2	90-100%	-	-	-	-	-
2	drywall core	65	white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	30-40%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps.

Sample W5-A **Lab Number** 2024-02172- 34 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Fibrous Mat
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	mastic	15	brown	1	n.d.	-	-	-	-	-
2	paper/cardboard	85	tan	2	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	80-90%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample W5-B **Lab Number** 2024-02172- 35 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Fibrous Mat
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	mastic	10	brown	1	n.d.	-	-	-	-	-
2	paper/cardboard	90	tan	2	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	80-90%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample W5-C **Lab Number** 2024-02172- 36 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Fibrous Mat
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	mastic	10	brown	1	n.d.	-	-	-	-	-
2	paper/cardboard	90	tan	2	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	80-90%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample C1-A **Lab Number** 2024-02172- 37 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, ,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	texture/joint compound	15	white	3	n.d.	-	-	-	-	-
2	paper/cardboard	60	tan	2	90-100%	-	-	-	-	-
3	drywall core	25	white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	50-60%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of joint compound/texture matrix using acid.

Sample C1-B **Lab Number** 2024-02172- 38 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	25	off-white	1	n.d.	-	-	-	-	-
2	texture/joint compound	70	white	3	n.d.	-	-	-	-	-
3	paper/cardboard	5	tan	2	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	2-5%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid.

Sample C1-C **Lab Number** 2024-02172- 39 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	25	off-white	1	n.d.	-	-	-	-	-
2	texture/joint compound	70	white	3	n.d.	-	-	-	-	-
3	paper/cardboard	5	tan	2	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	2-5%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid.

Sample C2-A **Lab Number** 2024-02172- 40 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Ceiling System Fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, polymer foam,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	spray-on ceiling	35	white	3	>1-2%	-	-	-	-	-
2	paper/cardboard	50	tan	2	90-100%	-	-	-	-	-
3	drywall core	15	white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	40-50%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Sample C2-B **Lab Number** 2024-02172- 41 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Ceiling System Fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, polymer foam,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	spray-on ceiling	25	white	3	>1-2%	-	-	-	-	-
2	paper/cardboard	40	tan	2	90-100%	-	-	-	-	-
3	drywall core	35	white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	30-40%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Sample C2-C **Lab Number** 2024-02172- 42 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Ceiling System Fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, polymer foam,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	spray-on ceiling	25	white	3	>1-2%	-	-	-	-	-
2	paper/cardboard	40	tan	2	90-100%	-	-	-	-	-
3	drywall core	35	white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	30-40%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Sample C3-A **Lab Number** 2024-02172- 43 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 4 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	5	white	1	n.d.	n.d.	-	-	-	-
2	texture/joint compound	5	white	3	n.d.	n.d.	-	-	-	-
3	paper/cardboard	50	tan	2	90-100%	n.d.	-	-	-	-
4	drywall core	40	white	3	<=1%	<=1%	-	-	-	-
	Total %	100		**Overall %**	40-50%	<=1%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid.

Sample C3-B **Lab Number** 2024-02172- 44 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	texture/joint compound	25	white	3	n.d.	-	-	-	-	-
2	paper/cardboard	50	tan	2	90-100%	-	-	-	-	-
3	drywall core	25	white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	40-50%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of joint compound/texture matrix using acid.

Sample C3-C **Lab Number** 2024-02172- 45 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 2/29/2024 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	texture/joint compound	25	white	3	n.d.	-	-	-	-	-
2	paper/cardboard	50	tan	2	90-100%	-	-	-	-	-
3	drywall core	25	white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	40-50%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of joint compound/texture matrix using acid.

Sample C4-A **Lab Number** 2024-02172- 46 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	5	off-white	1	n.d.	-	-	-	-	-
2	paper/cardboard	85	tan	2	90-100%	-	-	-	-	-
3	drywall core	10	white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	80-90%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent.

Sample C4-B **Lab Number** 2024-02172- 47 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	5	off-white	1	n.d.	-	-	-	-	-
2	paper/cardboard	60	tan	2	90-100%	-	-	-	-	-
3	drywall core	35	white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	50-60%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent.

Sample C4-C **Lab Number** 2024-02172- 48 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	5	off-white	1	n.d.	-	-	-	-	-
2	paper/cardboard	65	tan	2	90-100%	-	-	-	-	-
3	drywall core	30	white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	60-70%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent.

Sample M1-A **Lab Number** 2024-02172- 49 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	block	90	tan	1	n.d.	-	-	-	-	-
2	mortar	10	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid.

Sample M1-B **Lab Number** 2024-02172- 50 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	block	85	tan	1	n.d.	-	-	-	-	-
2	mortar	15	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid.

Sample M1-C **Lab Number** 2024-02172- 51 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	block	80	tan	1	n.d.	-	-	-	-	-
2	mortar	20	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid.

Sample M2-A **Lab Number** 2024-02172- 52 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Miscellaneous Sticky
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): filler, bitumen,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	coating	100	brown	1	>1-2%	-	-	-	-	-
	Total %	100		**Overall %**	>1-2%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M2-B **Lab Number** 2024-02172- 53 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Miscellaneous Sticky
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): filler, bitumen,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	coating	100	brown	1	>1-2%	-	-	-	-	-
	Total %	100		**Overall %**	>1-2%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M2-C **Lab Number** 2024-02172- 54 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Miscellaneous Sticky
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): filler, bitumen,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	coating	100	brown	1	>1-2%	-	-	-	-	-
	Total %	100		**Overall %**	>1-2%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M3-A **Lab Number** 2024-02172- 55 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, filler, binder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	5	white	1	n.d.	-	-	-	-	-
2	sealant	95	white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M3-B **Lab Number** 2024-02172- 56 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, filler, binder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	10	white	1	n.d.	-	-	-	-	-
2	sealant	90	white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M3-C **Lab Number** 2024-02172- 57 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, filler, binder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	10	white	1	n.d.	-	-	-	-	-
2	sealant	90	white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M4-A **Lab Number** 2024-02172- 58 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, filler, binder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	10	white	1	n.d.	-	-	-	-	-
2	sealant	90	white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M4-B **Lab Number** 2024-02172- 59 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, filler, binder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	50	white	1	n.d.	-	-	-	-	-
2	sealant	50	white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M4-C **Lab Number** 2024-02172- 60 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, filler, binder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	15	white	1	n.d.	-	-	-	-	-
2	sealant	85	white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M5-A **Lab Number** 2024-02172- 61 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, filler, binder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	white	1	n.d.	-	-	-	-	-
2	caulk	98	white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M5-B **Lab Number** 2024-02172- 62 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, filler, binder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	white	1	n.d.	-	-	-	-	-
2	caulk	99	white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M5-C **Lab Number** 2024-02172- 63 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, filler, binder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	0.1	white	1	n.d.	-	-	-	-	-
2	caulk	99.9	white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M6-A **Lab Number** 2024-02172- 64 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery

Homogeneous No **# Layers** 4 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler, debris

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	red	1	n.d.	-	-	-	-	-
2	sealant	39	black	1	n.d.	-	-	-	-	-
3	sealant	40	white	1	n.d.	-	-	-	-	-
4	debris	20	gray	3	70-80%	-	-	-	-	-
	Total %	100		**Overall %**	10-20%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M6-B **Lab Number** 2024-02172- 65 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler, bitumen

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	red	1	n.d.	-	-	-	-	-
2	sealant	49	black	1	n.d.	-	-	-	-	-
3	sealant	50	white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M6-C **Lab Number** 2024-02172- 66 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery

Homogeneous No **# Layers** 3 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler, bitumen

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	red	1	n.d.	-	-	-	-	-
2	sealant	49	black	1	n.d.	-	-	-	-	-
3	sealant	50	white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M7-A **Lab Number** 2024-02172- 67 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	50	gray	1	n.d.	-	-	-	-	-
2	sealant	50	white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent.

Sample M7-B **Lab Number** 2024-02172- 68 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	50	gray	1	n.d.	-	-	-	-	-
2	sealant	50	white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent.

Sample M7-C **Lab Number** 2024-02172- 69 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	50	gray	1	n.d.	-	-	-	-	-
2	sealant	50	white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent.

Sample M8-A **Lab Number** 2024-02172- 70 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	concrete	100	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Sample M8-B **Lab Number** 2024-02172- 71 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	concrete	100	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Sample M8-C **Lab Number** 2024-02172- 72 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	concrete	100	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Sample M9-A **Lab Number** 2024-02172- 73 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid
Homogeneous No **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): binder, filler,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	100	various	1	-	-	-	-	-	-
	Total %	100		**Overall %**	-	-	-	-	-	-
				Fiber Identification:						

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1													
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Note: layer 1 is a mixture of several thin paint/coating layers that could not be separated. Analyzed as single layer.

Sample M9-B **Lab Number** 2024-02172- 74 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid

Homogeneous No **# Layers** 1 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): binder, filler,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	100	various	1	-	-	-	-	-	-
	Total %	100		**Overall %**	-	-	-	-	-	-
				Fiber Identification:						

Fibers	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1												
2												
3												
4												
5												
6												

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Note: layer 1 is a mixture of several thin paint/coating layers that could not be separated. Analyzed as single layer.

Sample M9-C **Lab Number** 2024-02172- 75 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid

Homogeneous No **# Layers** 1 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): binder, filler,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	100	various	1	-	-	-	-	-	-
	Total %	100		**Overall %**	-	-	-	-	-	-
				Fiber Identification:						

Fibers	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1												
2												
3												
4												
5												
6												

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Note: layer 1 is a mixture of several thin paint/coating layers that could not be separated. Analyzed as single layer.

Sample M10-A **Lab Number** 2024-02172- 76 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid

Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): bitumen, rock, powder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	asphalt	100	black	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1 none												
2												
3												
4												
5												
6												

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M10-B **Lab Number** 2024-02172- 77 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): bitumen, rock, powder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	asphalt	100	black	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M10-C **Lab Number** 2024-02172- 78 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): bitumen, rock, powder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	asphalt	100	black	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M11-A **Lab Number** 2024-02172- 79 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Insulation Fibrous Mat
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): binder, ,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	insulation	100	yellow	3	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	90-100%	-	-	-	-	-
				Fiber Identification:	glass fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	glass fiber	CL	D	Y									
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps.

Sample M11-B **Lab Number** 2024-02172- 80 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Insulation Fibrous Mat
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): binder, ,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	insulation	100	yellow	3	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	90-100%	-	-	-	-	-
				Fiber Identification:	glass fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	glass fiber	CL	D	Y									
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps.

Sample M11-C **Lab Number** 2024-02172- 81 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Insulation Fibrous Mat
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): binder, ,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	insulation	100	yellow	3	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	90-100%	-	-	-	-	-
				Fiber Identification:	glass fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	glass fiber	CL	D	Y									
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps.

Sample R1-A **Lab Number** 2024-02172- 82 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Roofing Fibrous Solid
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): bitumen, filler, rock

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	roofing roll/shingle	65	black	1	5-10%	n.d.	-	-	-	-
2	bitumen sheeting	35	black	1	n.d.	70-80%	-	-	-	-
	Total %	100		**Overall %**	2-5%	20-30%	-	-	-	-
				Fiber Identification:	glass fiber	cellulose fiber				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	glass fiber	CL	D	Y									
2	cellulose fiber	W	F	N	N	H	+	U					
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

Sample R1-B **Lab Number** 2024-02172- 83 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Roofing Fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): bitumen, filler, rock

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	roofing roll/shingle	85	black	1	5-10%	n.d.	-	-	-	-
2	bitumen sheeting	15	black	1	n.d.	70-80%	-	-	-	-
	Total %	100		**Overall %**	5-10%	10-20%	-	-	-	-
				Fiber Identification:	glass fiber	cellulose fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	glass fiber	CL	D	Y									
2	cellulose fiber	W	F	N	N	H	+	U					
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

Sample R1-C **Lab Number** 2024-02172- 84 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Roofing Fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): bitumen, filler, rock

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	roofing roll/shingle	60	black	1	5-10%	n.d.	-	-	-	-
2	bitumen sheeting	40	black	1	n.d.	70-80%	-	-	-	-
	Total %	100		**Overall %**	2-5%	30-40%	-	-	-	-
				Fiber Identification:	glass fiber	cellulose fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	glass fiber	CL	D	Y									
2	cellulose fiber	W	F	N	N	H	+	U					
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

Sample R2-A **Lab Number** 2024-02172- 85 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, bitumen, filler

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	50	white	1	n.d.	-	-	-	-	-
2	bitumen	50	black	1	>1-2%	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample R2-B **Lab Number** 2024-02172- 86 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, bitumen, filler

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	50	white	1	n.d.	-	-	-	-	-
2	bitumen	50	black	1	>1-2%	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample R2-C **Lab Number** 2024-02172- 87 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, bitumen, filler

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	50	white	1	n.d.	-	-	-	-	-
2	bitumen	50	black	1	>1-2%	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample R3-A **Lab Number** 2024-02172- 88 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Sticky
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, bitumen, metal

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	50	gray	1	n.d.	-	-	-	-	-
2	metal	50	silver	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample R3-B **Lab Number** 2024-02172- 89 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Sticky
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, bitumen, metal

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	50	gray	1	n.d.	-	-	-	-	-
2	metal	50	silver	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample R3-C **Lab Number** 2024-02172- 90 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Sticky
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): polymer, bitumen, metal

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	50	gray	1	n.d.	-	-	-	-	-
2	metal	50	silver	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample R4-A **Lab Number** 2024-02172- 91 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Non-fibrous Solid
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	100	silver	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample R4-B **Lab Number** 2024-02172- 92 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Non-fibrous Solid
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	100	silver	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample R4-C **Lab Number** 2024-02172- 93 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Non-fibrous Solid
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	100	silver	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M12-A **Lab Number** 2024-02172- 94 **Sampled:** 2/22/2024 **Condition:** acceptable
Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Insulation Powder
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** Yes
Non-Fibrous Components (in approx. decreasing order): mica/vermiculite, ,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	vermiculite	100	gold	4	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	tremolite/actinolite					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	tremolite/actinolite asbestos	W	B	N	N	M	+	O	1.605	vg/y	sb/o	1.619	1.607
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Note: This sample had amphibole in association with vermiculite/mica. Routine analysis has identified the amphibole as tremolite/actinolite. However, it may be a mixture of any or all of the species tremolite, actinolite, richterite or winchite, of which only the first two are regulated as asbestos.

Sample M12-B **Lab Number** 2024-02172- 95 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Insulation Powder

Homogeneous Yes **# Layers** 1 **Asbestos Detected?** Yes

Non-Fibrous Components (in approx. decreasing order): mica/vermiculite, ,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	vermiculite	100	gold	4	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	tremolite/actinolite					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	tremolite/actinolite asbestos	W	B	N	N	M	+	O	1.605	vg/y	sb/o	1.619	1.607
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Note: This sample had amphibole in association with vermiculite/mica. Routine analysis has identified the amphibole as tremolite/actinolite. However, it may be a mixture of any or all of the species tremolite, actinolite, richterite or winchite, of which only the first two are regulated as asbestos.

Sample M12-C **Lab Number** 2024-02172- 96 **Sampled:** 2/22/2024 **Condition:** acceptable

Analyzed By HJB 3/1/2024 **An?** OK **Apparent Smp Type** Insulation Powder

Homogeneous Yes **# Layers** 1 **Asbestos Detected?** Yes

Non-Fibrous Components (in approx. decreasing order): mica/vermiculite, ,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	vermiculite	100	gold	4	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	tremolite/actinolite					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	tremolite/actinolite asbestos	W	B	N	N	M	+	O	1.605	vg/y	sb/o	1.619	1.607
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Note: This sample had amphibole in association with vermiculite/mica. Routine analysis has identified the amphibole as tremolite/actinolite. However, it may be a mixture of any or all of the species tremolite, actinolite, richterite or winchite, of which only the first two are regulated as asbestos.

Fr=Friability: 1=very non-friable; 2= non-friable; 3=friable; 4=highly friable
Colors: B=black;BL=blue;BR=brown;CL=clear;G=Green;GY=gray;OR=orange;OW=off-white;PN=pink;PU=purple;R=red;TN=tan;W=white;Y=yellow;V=various
Fiber Morphology: A=fine fibers/bundles, white, sinewy, flexible; B=fine fibers/bundles, w-br, straight, broomed ends; C=fine fibers/bundles, blue, straight, broomed ends; D=fine to coarse fibers, CL-B, brittle; E=coarse fibers,CL or dyed, striated; F=coarse fibers or splinters, W-BR, ribbon-like; G=lath-like or shards, low aspect ratio, may taper
Iso=isotropism - may be yes or no; Pleo=pleochroism - may be yes or no; Bi=birefringence - may be None, Low, Medium or High
Elg=sign of elongation - may be +, - or B (both); Ext=extinction - may be Parallel, Oblique, None or Undulating; Oil=medium used to for dispersion staining
Col Par=dispersion staining colors parallel to the fiber (fiber/halo): b/w=black/white; dg/py=dark gray/pale yellow; vg/y=violet gray/yellow; db/ly=dark blue/lemon yellow; vb/g= vivid blue/gold; sb/o=sky blue/orange; pb/r=pale blue/red; gb/dr=gray blue/dark red; w/b=white/black. Col Perp=same only perpendicular to fiber.
RI Par=refractive index parallel to fiber; RI Perp=refractive index perpendicular to fiber

Analyst: HARRISON J. BOSQUE

Printed: 01-Mar-24

Original Print Date: 01-Mar-24

Larry S. Pierce, Approved Accreditation Signatory

9185 South Farmer Avenue, Suite 111
Tempe, Arizona 85284
Phone: (480) 894-2056
Fax: (480) 894-2497

ATLAS

PLM - CHAIN OF CUSTODY

Project Name: Kearny Town Hall **Project Number:** 1052000242 Phase 13

Project Location: 912-B Tilbury Dr, Kearny, AZ 85137 **Sample Date:** 2/22/24

Turn-Around Time/Due Date: Normal Turn Around Time

Special Instructions: Email to results Teresa.harris@oneatlas.com

Samples Collected by: *Amayah, Chad, Derron, and Thomas* (Print Name) — *Amayah V, Chad W, Derron W, and Thomas N* (Signature)

SAMPLE NUMBER	LAB ID	MATERIAL DESCRIPTION	SAMPLE LOCATION
F1-A		Vinyl Floor Tile + Mastic	
B		↓	
C			
F2-A		Carpet + Mastic	
B		↓	
C			
F3-A		Carpet + Mastic	
B		↓	
C			
F4-A		Ceramic Tile + Grout	
B		↓	
C			
F5-A		Concrete	
B		↓	
C			
F6-A		Carpet + Mastic	
B		↓	
C			
F7-A		Vinyl Floor Tile + Mastic	
B		↓	
C			
W1-A		Textured Drywall	
B		↓	
C			
W2-A		Textured Drywall	
B		↓	
C			
W3-A		Cove base + Mastic	
B		↓	
C			

Relinquished by: (Print)	Relinquished by: (Signature)	Received by: (Print)	Received by: (Signature)	Date/Time:
			2-23-24	1:26

Review of Analysis Request (initials) SMA

9185 South Farmer Avenue, Suite 111
Tempe, Arizona 85284
Phone: (480) 894-2056
Fax: (480) 894-2497

ATLAS

PLM - CHAIN OF CUSTODY

Project Name: Kearny Town Hall **Project Number:** 1052000242 Phase 13

Project Location: 912-B Tilbury Dr, Kearny, AZ 85137 **Sample Date:** 2/22/24

Turn-Around Time/Due Date: Normal Turn Around Time

Special Instructions: Email to results Teresa.harris@oneatlas.com

Samples Collected by: *Amayah, Chad, Derron, and Thomas* (Print Name) — *Amayah V, Chad W, Derron W, and Thomas N* (Signature)

SAMPLE NUMBER	LAB ID	MATERIAL DESCRIPTION	SAMPLE LOCATION
W4-A		Gypsum Wallboard w/Joint Compound	
B		↓	
C			
W5-A		Adhesive	
B		↓	
C			
C1-A		Textured Drywall	
B		↓	
C			
C2-A		Popcorn Ceilings	
B		↓	
C			
C3-A		Textured Drywall	
B		↓	
C			
C4-A		Textured Drywall	
B		↓	
C			
M1-A		Slump Block + Mortar	
B		↓	
C			
M2-A		Acoustical Sink Coating	
B		↓	
C			
M3-A		Door Frame Sealant	
B		↓	
C			
M4-A		Window Frame Sealant	
B		↓	
C			

Relinquished by:		Received by:		Date/Time:
(Print)		(Print)	2-23-24	1:21
(Signature)		(Signature)		

Review of Analysis Request (initials)

9185 South Farmer Avenue, Suite 111
Tempe, Arizona 85284
Phone: (480) 894-2056
Fax: (480) 894-2497

ATLAS

PLM - CHAIN OF CUSTODY

Project Name: Kearny Town Hall **Project Number:** 1052000242 Phase 13

Project Location: 912-B Tilbury Dr, Kearny, AZ 85137 **Sample Date:** 2/22/24

Turn-Around Time/Due Date: Normal Turn Around Time

Special Instructions: Email to results Teresa.harris@oneatlas.com

Samples Collected by: *Amayah, Chad, Derron, and Thomas* (Print Name) — *Amayah V, Chad W, Derron W, and Thomas N* (Signature)

SAMPLE NUMBER	LAB ID	MATERIAL DESCRIPTION	SAMPLE LOCATION
M5-A		Caulking Compound	
B		↓	
C			
M6-A		Paint	
B		↓	
C			
M7-A		Sealant	
B		↓	
C			
M8-A		Concrete	
B		↓	
C			
M9-A		Paint	
B		↓	
C			
M10-A		Asphalt	
B		↓	
C			
M11-A		Batt Insulation	
B		↓	
C			
R1-A		Bituminous Roofing Shingles	
B		↓	
C			
R2-A		White Penetration Sealant	
B		↓	
C			
R3-A		Silver Duct Sealant	
B		↓	
C			

Relinquished by:		Received by:		Date/Time:
(Print)		(Print)	2.23.24	1:20
(Signature)		(Signature)		

Review of Analysis Request (initials) SPA

9185 South Farmer Avenue, Suite 111
Tempe, Arizona 85284
Phone: (480) 894-2056
Fax: (480) 894-2497

ATLAS

PLM - CHAIN OF CUSTODY

Project Name: Kearny Town Hall **Project Number:** 1052000242 Phase 13

Project Location: 912-B Tilbury Dr, Kearny, AZ 85137 **Sample Date:** 2/22/24

Turn-Around Time/Due Date: Normal Turn Around Time

Special Instructions: Email to results Teresa.harris@oneatlas.com

Samples Collected by: *Amayah, Chad, Derron, and Thomas* (Print Name) — *Amayah V, Chad W, Derron W, and Thomas N* (Signature)

SAMPLE NUMBER	LAB ID	MATERIAL DESCRIPTION	SAMPLE LOCATION
R4-A		Grey Roofing Sealant	
B		+	
C			
M2-A		Vermiculite - Black Filler	
B			
C			

Relinquished by: (Print)	Relinquished by: (Signature)	Received by: (Print)	Received by: (Signature)	Date/Time:
			2-23-24	1:20

Review of Analysis Request (initials)

FIBERQUANT ANALYTICAL SERVICES

Polarized Light Microscope (PLM) Analysis for Asbestos in Bulk Sample

JobNumber:	**202402173**

Client: **ATC GROUP SERVICES/ATLAS**

9185 S FARMER AVE STE 111

TEMPE, AZ 85284-0000

Office Phone: (480) 894-2056
FAX: (480) 894-2497

 # Samples: 27 PLM **Rec:** 2/23/2024 **Method:** EPA 600/R-93/116 The "New" Method; see below

Client Job: KearnyTeenCenter912-B Tilbury Dr,Kearny **PO Number:** 10520000242

Report Date: 2/29/2024 **Date Analyzed:** 2/29/2024 **Routing Number:** AZ 85137

Method and Analysis Information: **Fiberquant Internal SOP:** PLMn

Each bulk sample is first dissected under a 7-30x magnification stereo-microscope. This examination is used to determine the general type of sample, how many and what type of layers it has, and initial estimates of fiber types and quantities. Second, liquid media mounts are made of each layer - such mounts may be of selected fibers (used solely for identification purposes) or may be representative of the layer as a whole (used for quantitation purposes). The mounts may be made in a synthetic Canadian balsam, one of several solvents, or in refractive index oils (media of known refractive index). Generally, a variety of different mounts are made: some optimized for fiber visibility, some optimized for fiber identification, and some optimized for fiber quantitation. The mounted slides are then examined at 50-400x magnification on a Nikon Labphot-pol microscope. Optical characteristics are used to identify each observed fiber type; the optical data are contained for each sample on its detail analysis sheet, attached.

Current EPA and NESHAP regulations designate a result of ≤1 % asbestos as "negative" or "non-regulated"and >1 % asbestos as "positive" or "regulated." Samples containing layers that have been determined to be "positive" may have to be handled differently during a renovation or demolition than samples whose layers have been determined to be "negative." OSHA under CFR 1926.1101 regulates work done involving any detectable concentration of asbestos.

The method of fiber identification and quantitation is the "Standard Operating Procedures for the Analysis of Asbestos in Bulk Samples using Polarized Light Microscopy", Chapter 7 of the Quality Assurance and Management Manual. This SOP and its associated reporting have been designed to satisfy all requirements in both EPA Method 600/M4-82-020 (The Interim Method) and EPA Method 600/R-93/116 (The New Method). The Interim Method is the required method for AHERA (US EPA 40 CFR Pt. 763), but this method calls for the reporting of composited results of multi-layered samples that is no longer an acceptable reporting practice in most circumstances. Current EPA rules, such as NESHAP (US EPA 40 CFR Pt. 61), as well as NVLAP accreditation policies, call for separate reporting for each layer of multi-layered samples. The New Method contains the same procedures for identification and quantification of asbestos as does the Interim Method, except that multi-layered samples are reported to comply with the latest US EPA rule. Fiberquant not only reports the asbestos content of each layer of multi-layered samples separately (satisfying current EPA and NVLAP reporting requirements), but Fiberquant also reports what percentage of the sample each layer comprises. Therefore, the results may be arithmetically composited to satisfy the reporting requirements of the Interim Method. The method of fiber quantitation is an estimation technique in which the analysts quantitation is routinely calibrated by reference quantitation standards, and which has been shown to be equivalent in precision and accuracy to point counting. Friability is estimated for the purposes of deciding when to point count. Friabilities determined in the field take precedence over those determined in the laboratory. Those sample layers which are friable and estimated by the analyst to contain <= 1% asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Polutants, Nov. 1990) in order to rely on analytical results that are ≤ 1%. The coefficient of variation for the estimation quantitation technique is 100% in the range 0-5%. This means that PLM analysis is not capable of conclusively determining whether a layer containing close to 1% asbestos is actually "positive" or "negative". For this reason, Fiberquant refers to results where asbestos was detected but ≤ 1% as "borderline negative", and results where asbestos was >1 % but <= 2% as "borderline positive" to indicate the uncertainty in assigning a "positive" or "negative" label. In the sample summary, "ND" means that no asbestos was detected during the analysis. A "Tr" or "Trace" of asbestos reported is defined for our purposes as the detection of several asbestos fibers during the analysis; this level would be right at the limit of detection for the method. Trace is only reported on the analysis detail - in the summary a trace would be reported as <=1%. The limit of detection (the smallest % of asbestos that can be detected) varies greatly depending on the matrix in which the asbestos is found. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 1% stated in the method. During the analysis, the analyst, for Fiberquant identification purposes only, determines the "apparent sample type" and "apparent layer types." It must be emphasized that these types are only what is apparent. Often, different materials appear similar or identical after sampling, so the analyst may assign a type other than what was sampled.

Floor tiles present a special problem for PLM asbestos analysis. Floor tile can contain chrysotile fibers so thin that they cannot be resolved by optical methods. In such a case, we may observe a percentage of asbestos which is lower than the actual percentage, or not observe asbestos at all when some is present. For this reason, floor tiles reported as negative should be confirmed to be negative using transmission electron microscope (TEM) analysis. Likewise, vermiculite insulation materials containing traces of asbestiform asbestos present a problem for routine PLM analysis - the amphiboles are sometimes present in trace amounts inhomogeneously distributed. For this reason, loose vermiculite samples reported as negative should be confirmed to contain no amphibole using hydroseparation techniques.

The samples were analyzed under the following ongoing quality assurance program: Blank samples are routinely analyzed to maintain contamination-free materials. Each analyst has at least a bachelor's degree in physical science, and has also completed extensive training specific to asbestos analysis for 1-3 months before being allowed to analyze client samples. Qualitative reference samples are routinely analyzed to assure that analysts

can identify asbestos and asbestos-look-alike fibers. Quantitative reference samples are routinely analyzed to calibrate and characterize the estimation procedure. Microscope alignment is checked each day. Refractive index oils are calibrated at least quarterly. At least 10% of client samples are re-analyzed from scratch by a different analyst than the original, and any discrepancies are resolved for the sample and similar sample types before the results are reported. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. All analysts participate in interlab round robins and proficiency testing to assure competence. Fiberquant is accredited by NVLAP (Lab code #101031) for the analysis of bulk samples for asbestos using PLM. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical Services.

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

PLM Analysis Summary: **Job Number: 202402173** KearnyTeenCenter912-B Tilbury Dr,Kea

Sample Number / Layer	Color	Apparent Layer Type *	Lab Number	Apparent Sample Type *	Asbestos Detected Yes or No
		Asbestos Results			
Sample # **F1-A**			2024-02173- 1	Cementitious	Asbestos Detected? No
Layer # 1	gray	concrete	*no asbestos detected*		
Sample # **F1-B**			2024-02173- 2	Cementitious	Asbestos Detected? No
Layer # 1	gray	concrete	*no asbestos detected*		
Sample # **F1-C**			2024-02173- 3	Cementitious	Asbestos Detected? No
Layer # 1	gray	concrete	*no asbestos detected*		
Sample # **C1-A**			2024-02173- 4	Acoustical Tile	Asbestos Detected? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	off-white	acoustical tile	*no asbestos detected*		
Sample # **C1-B**			2024-02173- 5	Acoustical Tile	Asbestos Detected? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	off-white	acoustical tile	*no asbestos detected*		
Sample # **C1-C**			2024-02173- 6	Acoustical Tile	Asbestos Detected? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	off-white	acoustical tile	*no asbestos detected*		
Sample # **M1-A**			2024-02173- 7	TSI	Asbestos Detected? No
Layer # 1	silver	insulation wrap	*no asbestos detected*		
Layer # 2	pink	insulation	*no asbestos detected*		
Sample # **M1-B**			2024-02173- 8	TSI	Asbestos Detected? No
Layer # 1	silver	insulation wrap	*no asbestos detected*		
Layer # 2	pink	insulation	*no asbestos detected*		
Sample # **M1-C**			2024-02173- 9	TSI	Asbestos Detected? No
Layer # 1	silver	insulation wrap	*no asbestos detected*		
Layer # 2	pink	insulation	*no asbestos detected*		
Sample # **M2-A**			2024-02173- 10	Miscellaneous	Asbestos Detected? Yes
Layer # 1	off-white	sealant	*no asbestos detected*		
Layer # 2	brown	sealant	*no asbestos detected*		
Layer # 3	yellow	paint	*no asbestos detected*		
Layer # 4	off-white	texture/joint compound	*<=1% chrysotile asbestos*		
Layer # 5	gray	block	*no asbestos detected*		
Layer # 6	gray	mortar	*no asbestos detected*		
Sample # **M2-B**			2024-02173- 11	Miscellaneous	Asbestos Detected? Yes
Layer # 1	red	paint	*no asbestos detected*		
Layer # 2	black	mastic	*>1-2% chrysotile asbestos*		
Layer # 3	yellow	paint	*no asbestos detected*		
Layer # 4	off-white	texture/joint compound	*<=1% chrysotile asbestos*		
Layer # 5	gray	block	*no asbestos detected*		
Layer # 6	gray	mortar	*no asbestos detected*		
Sample # **M2-C**			2024-02173- 12	Miscellaneous	Asbestos Detected? Yes
Layer # 1	white	sealant	*no asbestos detected*		
Layer # 2	brown	sealant	*no asbestos detected*		
Layer # 3	red	paint	*no asbestos detected*		
Layer # 4	yellow	paint	*no asbestos detected*		
Layer # 5	off-white	texture/joint compound	*<=1% chrysotile asbestos*		
Layer # 6	gray	block	*no asbestos detected*		
Layer # 7	gray	mortar	*no asbestos detected*		
Sample # **M3-A**			2024-02173- 13	Adhesive/caulk	Asbestos Detected? No
Layer # 1	white	sealant	*no asbestos detected*		
Layer # 2	gray	paint	*no asbestos detected*		
Sample # **M3-B**			2024-02173- 14	Adhesive/caulk	Asbestos Detected? No
Layer # 1	white	sealant	*no asbestos detected*		
Layer # 2	gray	paint	*no asbestos detected*		

Sample #	**M3-C**			2024-02173- 15	Adhesive/caulk	Asbestos Detected? No
	Layer # 1	white	sealant	*no asbestos detected*		
	Layer # 2	gray	paint	*no asbestos detected*		
Sample #	**M4-A**			2024-02173- 16	TSI	Asbestos Detected? No
	Layer # 1	silver	duct tape	*no asbestos detected*		
Sample #	**M4-B**			2024-02173- 17	TSI	Asbestos Detected? No
	Layer # 1	silver	duct tape	*no asbestos detected*		
Sample #	**M4-C**			2024-02173- 18	TSI	Asbestos Detected? No
	Layer # 1	silver	duct tape	*no asbestos detected*		
Sample #	**R1-A**			2024-02173- 19	Roofing	Asbestos Detected? No
	Layer # 1	black	roofing roll/shingle	*no asbestos detected*		
	Layer # 2	black	roof ply/bitumen	*no asbestos detected*		
Sample #	**R1-B**			2024-02173- 20	Roofing	Asbestos Detected? No
	Layer # 1	black	roofing roll/shingle	*no asbestos detected*		
	Layer # 2	black	roof ply/bitumen	*no asbestos detected*		
Sample #	**R1-C**			2024-02173- 21	Roofing	Asbestos Detected? No
	Layer # 1	black	roofing roll/shingle	*no asbestos detected*		
	Layer # 2	black	roof ply/bitumen	*no asbestos detected*		
Sample #	**M5-A**			2024-02173- 22	Cementitious	Asbestos Detected? No
	Layer # 1	off-white	paint	*no asbestos detected*		
	Layer # 2	gray	concrete	*no asbestos detected*		
Sample #	**M5-B**			2024-02173- 23	Cementitious	Asbestos Detected? No
	Layer # 1	gray	concrete	*no asbestos detected*		
Sample #	**M5-C**			2024-02173- 24	Cementitious	Asbestos Detected? No
	Layer # 1	gray	sealant	*no asbestos detected*		
	Layer # 2	gray	concrete	*no asbestos detected*		
Sample #	**M6-A**			2024-02173- 25	Miscellaneous	Asbestos Detected? No
	Layer # 1	black	sealant	*no asbestos detected*		
Sample #	**M6-B**			2024-02173- 26	Miscellaneous	Asbestos Detected? No
	Layer # 1	black	sealant	*no asbestos detected*		
Sample #	**M6-C**			2024-02173- 27	Miscellaneous	Asbestos Detected? No
	Layer # 1	black	sealant	*no asbestos detected*		

* Apparent Sample Types and Apparent Layer Types are as they appeared to the analyst. Since many types of materials appear similar after sampling damage, the apparent type of material may not be the actual type of material.

Sample F1-A **Lab Number** 2024-02173- 1 **Sampled:** 2/23/2024 **Condition:** acceptable

Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid

Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	concrete	100	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Sample F1-B **Lab Number** 2024-02173- 2 **Sampled:** 2/23/2024 **Condition:** acceptable

Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid

Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	concrete	100	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Sample F1-C **Lab Number** 2024-02173- 3 **Sampled:** 2/23/2024 **Condition:** acceptable

Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid

Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	concrete	100	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

Sample C1-A **Lab Number** 2024-02173- 4 **Sampled:** 2/23/2024 **Condition:** acceptable
Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): perlite, powder, binder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	off-white	1	n.d.	n.d.	-	-	-	-
2	acoustical tile	98	off-white	3	10-20%	10-20%	-	-	-	-
	Total %	100		**Overall %**	10-20%	10-20%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample C1-B **Lab Number** 2024-02173- 5 **Sampled:** 2/23/2024 **Condition:** acceptable
Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): perlite, powder, binder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	off-white	1	n.d.	n.d.	-	-	-	-
2	acoustical tile	98	off-white	3	10-20%	10-20%	-	-	-	-
	Total %	100		**Overall %**	10-20%	10-20%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample C1-C **Lab Number** 2024-02173- 6 **Sampled:** 2/23/2024 **Condition:** acceptable
Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): perlite, powder, binder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	off-white	1	n.d.	n.d.	-	-	-	-
2	acoustical tile	98	off-white	3	10-20%	10-20%	-	-	-	-
	Total %	100		**Overall %**	10-20%	10-20%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample M1-A **Lab Number** 2024-02173- 7 **Sampled:** 2/23/2024 **Condition:** acceptable
Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** TSI Fibrous Mat
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): bitumen, metal, powder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	insulation wrap	40	silver	2	30-40%	n.d.	-	-	-	-
2	insulation	60	pink	4	n.d.	90-100%	-	-	-	-
	Total %	100		**Overall %**	10-20%	50-60%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent.

Sample M1-B **Lab Number** 2024-02173- 8 **Sampled:** 2/23/2024 **Condition:** acceptable
Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** TSI Fibrous Mat
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): bitumen, metal, powder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	insulation wrap	40	silver	2	30-40%	n.d.	-	-	-	-
2	insulation	60	pink	4	n.d.	90-100%	-	-	-	-
	Total %	100		**Overall %**	10-20%	50-60%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent.

Sample M1-C **Lab Number** 2024-02173- 9 **Sampled:** 2/23/2024 **Condition:** acceptable
Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** TSI Fibrous Mat
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): bitumen, metal, powder

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	insulation wrap	40	silver	2	30-40%	n.d.	-	-	-	-
2	insulation	60	pink	4	n.d.	90-100%	-	-	-	-
	Total %	100		**Overall %**	10-20%	50-60%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent.

Sample M2-A **Lab Number** 2024-02173- 10 **Sampled:** 2/23/2024 **Condition:** acceptable

Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid

Homogeneous No **# Layers** 6 **Asbestos Detected?** Yes

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	5	off-white	1	n.d.	-	-	-	-	-
2	sealant	5	brown	1	n.d.	-	-	-	-	-
3	paint	2	yellow	1	n.d.	-	-	-	-	-
4	texture/joint compound	3	off-white	3	<=1%	-	-	-	-	-
5	block	60	gray	1	n.d.	-	-	-	-	-
6	mortar	25	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	chrysotile asbestos					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	db/ly	sb/o	1.561	1.553
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid. Point Count: Layer Number 4; 1 asbestos counts per 400 total counts = .25 percent.

Sample M2-B **Lab Number** 2024-02173- 11 **Sampled:** 2/23/2024 **Condition:** acceptable

Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid

Homogeneous No **# Layers** 6 **Asbestos Detected?** Yes

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	red	1	n.d.	-	-	-	-	-
2	mastic	2	black	1	>1-2%	-	-	-	-	-
3	paint	1	yellow	1	n.d.	-	-	-	-	-
4	texture/joint compound	3	off-white	3	<=1%	-	-	-	-	-
5	block	68	gray	1	n.d.	-	-	-	-	-
6	mortar	25	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	chrysotile asbestos					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	db/ly	sb/o	1.561	1.553
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid. Point Count: Layer Number 4; 2 asbestos counts per 400 total counts = .5 percent.

Sample M2-C **Lab Number** 2024-02173- 12 **Sampled:** 2/23/2024 **Condition:** acceptable

Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid

Homogeneous No **# Layers** 7 **Asbestos Detected?** Yes

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	3	white	1	n.d.	-	-	-	-	-
2	sealant	2	brown	1	n.d.	-	-	-	-	-
3	paint	1	red	1	n.d.	-	-	-	-	-
4	paint	1	yellow	1	n.d.	-	-	-	-	-
5	texture/joint compound	3	off-white	3	<=1%	-	-	-	-	-
6	block	65	gray	1	n.d.	-	-	-	-	-
7	mortar	25	gray	1	n.d.	-	-	-	-	-
	Total %	100	**Overall %**		<=1%	-	-	-	-	-
			Fiber Identification:		chrysotile asbestos					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	db/ly	sb/o	1.561	1.553
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid. Point Count: Layer Number 4; 2 asbestos counts per 400 total counts = .5 percent.

Sample M3-A **Lab Number** 2024-02173- 13 **Sampled:** 2/23/2024 **Condition:** acceptable

Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	99	white	1	n.d.	-	-	-	-	-
2	paint	1	gray	1	n.d.	-	-	-	-	-
	Total %	100	**Overall %**		n.d.	-	-	-	-	-
			Fiber Identification:		none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent.

Sample M3-B **Lab Number** 2024-02173- 14 **Sampled:** 2/23/2024 **Condition:** acceptable

Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	99	white	1	n.d.	-	-	-	-	-
2	paint	1	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent.

Sample M3-C **Lab Number** 2024-02173- 15 **Sampled:** 2/23/2024 **Condition:** acceptable

Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Adhesive/caulk Rubbery

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	99	white	1	n.d.	-	-	-	-	-
2	paint	1	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent.

Sample M4-A **Lab Number** 2024-02173- 16 **Sampled:** 2/23/2024 **Condition:** acceptable

Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** TSI Fibrous Mat

Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): binder, ,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	duct tape	100	silver	3	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps.

Sample M4-B **Lab Number** 2024-02173- 17 **Sampled:** 2/23/2024 **Condition:** acceptable
Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** TSI Fibrous Mat
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): binder, ,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	duct tape	100	silver	3	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps.

Sample M4-C **Lab Number** 2024-02173- 18 **Sampled:** 2/23/2024 **Condition:** acceptable
Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** TSI Fibrous Mat
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): binder, ,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	duct tape	100	silver	3	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps.

Sample R1-A **Lab Number** 2024-02173- 19 **Sampled:** 2/23/2024 **Condition:** acceptable
Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Roofing Fibrous Solid
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): bitumen, filler, rock

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	roofing roll/shingle	55	black	1	5-10%	n.d.	-	-	-	-
2	roof ply/bitumen	45	black	1	n.d.	30-40%	-	-	-	-
	Total %	100		**Overall %**	2-5%	10-20%	-	-	-	-
				Fiber Identification:	glass fiber	cellulose fiber				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	glass fiber	CL	D	Y									
2	cellulose fiber	W	F	N	N	H	+	U					
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

Sample R1-B **Lab Number** 2024-02173- 20 **Sampled:** 2/23/2024 **Condition:** acceptable

Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Roofing Fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): bitumen, filler, rock

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	roofing roll/shingle	55	black	1	5-10%	n.d.	-	-	-	-
2	roof ply/bitumen	45	black	1	n.d.	30-40%	-	-	-	-
	Total %	100		**Overall %**	2-5%	10-20%	-	-	-	-
				Fiber Identification:	glass fiber	cellulose fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	glass fiber	CL	D	Y									
2	cellulose fiber	W	F	N	N	H	+	U					
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

Sample R1-C **Lab Number** 2024-02173- 21 **Sampled:** 2/23/2024 **Condition:** acceptable

Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Roofing Fibrous Solid

Homogeneous No **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): bitumen, filler, rock

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	roofing roll/shingle	55	black	1	5-10%	n.d.	-	-	-	-
2	roof ply/bitumen	45	black	1	n.d.	30-40%	-	-	-	-
	Total %	100		**Overall %**	2-5%	10-20%	-	-	-	-
				Fiber Identification:	glass fiber	cellulose fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	glass fiber	CL	D	Y									
2	cellulose fiber	W	F	N	N	H	+	U					
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

Sample M5-A **Lab Number** 2024-02173- 22 **Sampled:** 2/23/2024 **Condition:** acceptable

Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid

Homogeneous Yes **# Layers** 2 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): powder, rock, rock

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	off-white	1	n.d.	-	-	-	-	-
2	concrete	99	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Procedure: dissolution of matrix using solvent.

Sample M5-B **Lab Number** 2024-02173- 23 **Sampled:** 2/23/2024 **Condition:** acceptable
Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): powder, rock, rock

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	concrete	100	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Procedure: dissolution of matrix using solvent.

Sample M5-C **Lab Number** 2024-02173- 24 **Sampled:** 2/23/2024 **Condition:** acceptable
Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Cementitious Non-fibrous Solid
Homogeneous No **# Layers** 2 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): powder, rock, rock

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	1	gray	1	n.d.	-	-	-	-	-
2	concrete	99	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Procedure: dissolution of matrix using solvent.

Sample M6-A **Lab Number** 2024-02173- 25 **Sampled:** 2/23/2024 **Condition:** acceptable
Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid
Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	100	black	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M6-B **Lab Number** 2024-02173- 26 **Sampled:** 2/23/2024 **Condition:** acceptable

Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid

Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	100	black	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample M6-C **Lab Number** 2024-02173- 27 **Sampled:** 2/23/2024 **Condition:** acceptable

Analyzed By MCJ 2/29/2024 **An?** OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid

Homogeneous Yes **# Layers** 1 **Asbestos Detected?** No

Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	100	black	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

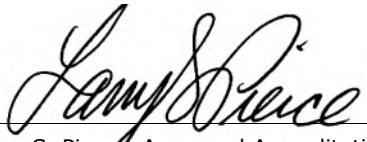
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Fr=Friability: 1=very non-friable; 2= non-friable; 3=friable; 4=highly friable
Colors: B=black;BL=blue;BR=brown;CL=clear;G=Green;GY=gray;OR=orange;OW=off-white;PN=pink;PU=purple;R=red;TN=tan;W=white;Y=yellow;V=various
Fiber Morphology: A=fine fibers/bundles, white, sinewy, flexible; B=fine fibers/bundles, w-br, straight, broomed ends; C=fine fibers/bundles, blue, straight, broomed ends; D=fine to coarse fibers, CL-B, brittle; E=coarse fibers,CL or dyed, striated; F=coarse fibers or splinters, W-BR, ribbon-like; G=lath-like or shards, low aspect ratio, may taper
Iso=isotropism - may be yes or no; Pleo=pleochroism - may be yes or no; Bi=birefringence - may be None, Low, Medium or High
Elg=sign of elongation - may be +, - or B (both); Ext=extinction - may be Parallel, Oblique, None or Undulating; Oil=medium used to for dispersion staining
Col Par=dispersion staining colors parallel to the fiber (fiber/halo): b/w=black/white; dg/py=dark gray/pale yellow; vg/y=violet gray/yellow; db/ly=dark blue/lemon yellow; vb/g= vivid blue/gold; sb/o=sky blue/orange; pb/r=pale blue/red; gb/dr=gray blue/dark red; w/b=white/black. Col Perp=same only perpendicular to fiber.
RI Par=refractive index parallel to fiber; RI Perp=refractive index perpendicular to fiber

Analyst: MARK C. JEFFERSON

Printed: 29-Feb-24

Original Print Date: 29-Feb-24



Larry S. Pierce, Approved Accreditation Signatory

9185 South Farmer Avenue, Suite 111
Tempe, Arizona 85284
Phone: (480) 894-2056
Fax: (480) 894-2497

ATLAS

PLM - CHAIN OF CUSTODY

Project Name: Kearny Teen Center **Project Number:** 1052000242 Phase 13

Project Location: 912-B Tilbury Dr, Kearny, AZ 85137 **Sample Date:** 2/23/24

Turn-Around Time/Due Date: Normal Turn Around Time

Special Instructions: Email to results Teresa.harris@oneatlas.com

Samples Collected by: *Amayah, Chad, Derron, and Thomas* (Print Name) — *Amayah V, Chad W, Derron W, and Thomas N* (Signature)

SAMPLE NUMBER	LAB ID	MATERIAL DESCRIPTION	SAMPLE LOCATION
F1-A		Epoxy Coated Concrete	
B		↓	
C		↓	
C1-A		2x4 ceiling Panels	
B		↓	
C		↓	
M1-A		BATT Insulation	
B		↓	
C		↓	
M2-A		Brick + Mortar w Paint (assoc Expansion)	
B		↓	
C		↓	
M3-A		Sint caulking	
B		↓	
C		↓	
M4-A		Tape Sealant Silver	
B		↓	
C		↓	
R1-A		Roofing Shingles w under Layment	
B		↓	
C		↓	
M5-A		Concrete Exterior	
B		↓	
C		↓	
M6-A		Black Acoustical Paint Coating	
B		↓	
C		↓	

Relinquished by:		Received by:		Date/Time:
(Print)		(Print)	2.23.24	1:27
(Signature)		(Signature)		

Review of Analysis Request (initials) SMA

FIBERQUANT ANALYTICAL SERVICES

Polarized Light Microscope (PLM) Analysis for Asbestos in Bulk Sample

JobNumber:	**202402904**

Client: **ATC GROUP SERVICES/ATLAS**

9185 S FARMER AVE STE 111

TEMPE, AZ 85284-0000

Office Phone: (480) 894-2056
FAX: (480) 894-2497

 # Samples: 3 PLM **Rec:** 3/15/2024 **Method:** EPA 600/R-93/116 The "New" Method; see below

Client Job: 1052000242 **PO Number:** 1052000242

Report Date: 3/18/2024 **Date Analyzed:** 3/15/2024 **Routing Number:** -

Method and Analysis Information: **Fiberquant Internal SOP:** PLMn

Each bulk sample is first dissected under a 7-30x magnification stereo-microscope. This examination is used to determine the general type of sample, how many and what type of layers it has, and initial estimates of fiber types and quantities. Second, liquid media mounts are made of each layer - such mounts may be of selected fibers (used solely for identification purposes) or may be representative of the layer as a whole (used for quantitation purposes). The mounts may be made in a synthetic Canadian balsam, one of several solvents, or in refractive index oils (media of known refractive index). Generally, a variety of different mounts are made: some optimized for fiber visibility, some optimized for fiber identification, and some optimized for fiber quantitation. The mounted slides are then examined at 50-400x magnification on a Nikon Labphot-pol microscope. Optical characteristics are used to identify each observed fiber type; the optical data are contained for each sample on its detail analysis sheet, attached.

Current EPA and NESHAP regulations designate a result of ≤1 % asbestos as "negative" or "non-regulated"and >1 % asbestos as "positive" or "regulated." Samples containing layers that have been determined to be "positive" may have to be handled differently during a renovation or demolition than samples whose layers have been determined to be "negative." OSHA under CFR 1926.1101 regulates work done involving any detectable concentration of asbestos.

The method of fiber identification and quantitation is the "Standard Operating Procedures for the Analysis of Asbestos in Bulk Samples using Polarized Light Microscopy", Chapter 7 of the Quality Assurance and Management Manual. This SOP and its associated reporting have been designed to satisfy all requirements in both EPA Method 600/M4-82-020 (The Interim Method) and EPA Method 600/R-93/116 (The New Method). The Interim Method is the required method for AHERA (US EPA 40 CFR Pt. 763), but this method calls for the reporting of composited results of multi-layered samples that is no longer an acceptable reporting practice in most circumstances. Current EPA rules, such as NESHAP (US EPA 40 CFR Pt. 61), as well as NVLAP accreditation policies, call for separate reporting for each layer of multi-layered samples. The New Method contains the same procedures for identification and quantification of asbestos as does the Interim Method, except that multi-layered samples are reported to comply with the latest US EPA rule. Fiberquant not only reports the asbestos content of each layer of multi-layered samples separately (satisfying current EPA and NVLAP reporting requirements), but Fiberquant also reports what percentage of the sample each layer comprises. Therefore, the results may be arithmetically composited to satisfy the reporting requirements of the Interim Method. The method of fiber quantitation is an estimation technique in which the analysts quantitation is routinely calibrated by reference quantitation standards, and which has been shown to be equivalent in precision and accuracy to point counting. Friability is estimated for the purposes of deciding when to point count. Friabilities determined in the field take precedence over those determined in the laboratory. Those sample layers which are friable and estimated by the analyst to contain <= 1% asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Polutants, Nov. 1990) in order to rely on analytical results that are ≤ 1%. The coefficient of variation for the estimation quantitation technique is 100% in the range 0-5%. This means that PLM analysis is not capable of conclusively determining whether a layer containing close to 1% asbestos is actually "positive" or "negative". For this reason, Fiberquant refers to results where asbestos was detected but ≤ 1% as "borderline negative", and results where asbestos was >1 % but <= 2% as "borderline positive" to indicate the uncertainty in assigning a "positive" or "negative" label. In the sample summary, "ND" means that no asbestos was detected during the analysis. A "Tr" or "Trace" of asbestos reported is defined for our purposes as the detection of several asbestos fibers during the analysis; this level would be right at the limit of detection for the method. Trace is only reported on the analysis detail - in the summary a trace would be reported as <=1%. The limit of detection (the smallest % of asbestos that can be detected) varies greatly depending on the matrix in which the asbestos is found. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 1% stated in the method. During the analysis, the analyst, for Fiberquant identification purposes only, determines the "apparent sample type" and "apparent layer types." It must be emphasized that these types are only what is apparent. Often, different materials appear similar or identical after sampling, so the analyst may assign a type other than what was sampled.

Floor tiles present a special problem for PLM asbestos analysis. Floor tile can contain chrysotile fibers so thin that they cannot be resolved by optical methods. In such a case, we may observe a percentage of asbestos which is lower than the actual percentage, or not observe asbestos at all when some is present. For this reason, floor tiles reported as negative should be confirmed to be negative using transmission electron microscope (TEM) analysis. Likewise, vermiculite insulation materials containing traces of asbestiform asbestos present a problem for routine PLM analysis - the amphiboles are sometimes present in trace amounts inhomogeneously distributed. For this reason, loose vermiculite samples reported as negative should be confirmed to contain no amphibole using hydroseparation techniques.

The samples were analyzed under the following ongoing quality assurance program: Blank samples are routinely analyzed to maintain contamination-free materials. Each analyst has at least a bachelor's degree in physical science, and has also completed extensive training specific to asbestos analysis for 1-3 months before being allowed to analyze client samples. Qualitative reference samples are routinely analyzed to assure that analysts

can identify asbestos and asbestos-look-alike fibers. Quantitative reference samples are routinely analyzed to calibrate and characterize the estimation procedure. Microscope alignment is checked each day. Refractive index oils are calibrated at least quarterly. At least 10% of client samples are re-analyzed from scratch by a different analyst than the original, and any discrepancies are resolved for the sample and similar sample types before the results are reported. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. All analysts participate in interlab round robins and proficiency testing to assure competence. Fiberquant is accredited by NVLAP (Lab code #101031) for the analysis of bulk samples for asbestos using PLM. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical Services.

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

PLM Analysis Summary: **Job Number: 202402904** 1052000242

Sample Number / Layer	Color	Apparent Layer Type *	Lab Number / *Asbestos Results*	Apparent Sample Type *	Asbestos Detected Yes or No
Sample # **M5-A**			2024-02904- 1	Miscellaneous	Asbestos Detected? Yes
Layer # 1	various	paint	*no asbestos detected*		
Layer # 2	off-white	texture/joint compound	*<=1% chrysotile asbestos*		
Layer # 3	gray	block	*no asbestos detected*		
Sample # **M5-B**			2024-02904- 2	Miscellaneous	Asbestos Detected? Yes
Layer # 1	various	paint	*no asbestos detected*		
Layer # 2	off-white	texture/joint compound	*<=1% chrysotile asbestos*		
Layer # 3	gray	block	*no asbestos detected*		
Sample # **M5-C**			2024-02904- 3	Miscellaneous	Asbestos Detected? Yes
Layer # 1	various	paint	*no asbestos detected*		
Layer # 2	off-white	texture/joint compound	*<=1% chrysotile asbestos*		
Layer # 3	gray	block	*no asbestos detected*		

* Apparent Sample Types and Apparent Layer Types are as they appeared to the analyst. Since many types of materials appear similar after sampling damage, the apparent type of material may not be the actual type of material.

Sample M5-A **Lab Number** 2024-02904- 1 **Sampled:** 3/15/2024 **Condition:** acceptable

Analyzed By VTL 3/15/2024 **An?** OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** Yes

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	9.5	various	1	n.d.	-	-	-	-	-
2	texture/joint compound	0.5	off-white	3	<=1%	-	-	-	-	-
3	block	90	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	chrysotile asbestos					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	db/ly	sb/o	1.561	1.553
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid. Note: Surface of layer 2 is too thin to point count. Visual estimate only.

Sample M5-B **Lab Number** 2024-02904- 2 **Sampled:** 3/15/2024 **Condition:** acceptable

Analyzed By VTL 3/15/2024 **An?** OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** Yes

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	9.5	various	1	n.d.	-	-	-	-	-
2	texture/joint compound	0.5	off-white	3	<=1%	-	-	-	-	-
3	block	90	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	chrysotile asbestos					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	db/ly	sb/o	1.561	1.553
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid. Note: Surface of layer 2 is too thin to point count. Visual estimate only.

Sample M5-C **Lab Number** 2024-02904- 3 **Sampled:** 3/15/2024 **Condition:** acceptable

Analyzed By VTL 3/15/2024 **An?** OK **Apparent Smp Type** Miscellaneous Non-fibrous Solid

Homogeneous No **# Layers** 3 **Asbestos Detected?** Yes

Non-Fibrous Components (in approx. decreasing order): powder, rock,

Layers

#	Layer Type	%	Color	Friability	Calibrated Visual Estimate of Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	9.5	various	1	n.d.	-	-	-	-	-
2	texture/joint compound	0.5	off-white	3	<=1%	-	-	-	-	-
3	block	90	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	chrysotile asbestos					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	db/ly	sb/o	1.561	1.553
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of cementitious components using acid. Note: Surface of layer 2 is too thin to point count. Visual estimate only.

Fr=Friability: 1=very non-friable; 2= non-friable; 3=friable; 4=highly friable
Colors: B=black;BL=blue;BR=brown;CL=clear;G=Green;GY=gray;OR=orange;OW=off-white;PN=pink;PU=purple;R=red;TN=tan;W=white;Y=yellow;V=various
Fiber Morphology: A=fine fibers/bundles, white, sinewy, flexible; B=fine fibers/bundles, w-br, straight, broomed ends; C=fine fibers/bundles, blue, straight, broomed ends; D=fine to coarse fibers, CL-B, brittle; E=coarse fibers,CL or dyed, striated; F=coarse fibers or splinters, W-BR, ribbon-like; G=lath-like or shards, low aspect ratio, may taper
Iso=isotropism - may be yes or no; Pleo=pleochroism - may be yes or no; Bi=birefringence - may be None, Low, Medium or High
Elg=sign of elongation - may be +, - or B (both); Ext=extinction - may be Parallel, Oblique, None or Undulating; Oil=medium used to for dispersion staining
Col Par=dispersion staining colors parallel to the fiber (fiber/halo): b/w=black/white; dg/py=dark gray/pale yellow; vg/y=violet gray/yellow; db/ly=dark blue/lemon yellow; vb/g= vivid blue/gold; sb/o=sky blue/orange; pb/r=pale blue/red; gb/dr=gray blue/dark red; w/b=white/black. Col Perp=same only perpendicular to fiber.
RI Par=refractive index parallel to fiber; RI Perp=refractive index perpendicular to fiber

Analyst: VLAD T. LASLO

Printed: 18-Mar-24

Original Print Date: 15-Mar-24

Larry S. Pierce, Approved Accreditation Signatory

RUSH

FIBERQUANT ANALYTICAL SERVICES

Fiberquant Analytical Services 5025 S. 33rd St.; Phoenix, AZ 85040; Phone: 602-276-6139; FAX: 602-276-4558; info@fiberquant.com

Analysis Request/Chain-of-Custody Form

Submitted by (Company)	Atlas
Address	9185 S. Farmer Ave
City, State, Zip Code	Tempe, Arizona, 85284
Phone	(480)-355-4663 FAX
Email	robyn.steinecneatlas.com
Invoice to (Company)	Same as above
Address	
City, State, Zip Code	
Phone / FAX	
Contact (print)	Chase Bucknell
Sampled by (signature)	Chase Bucknell
Job Number or Project Name	105200242
PO Number	105200242

<Analysis Method Requested> ONLY ONE METHOD per COC		Turn-around-time (circle one) Rush	Norm	Ext.
Asbestos by PLM	Method > Improved Interim; Analyze > All ATPF; If ATPF then > by Layer by Sample; Single Layer Protocol > Yes No	Urgent Rush <3 hrs / <6 hrs	1-3 days	15-30 days
Fibers by PCM	Method > 7400 (Area) ORM (Personal)	<4 hrs	24 hrs	-
Asbestos by TEM	in Air > AHERA Mod. AHERA	<6 hrs	24 hrs	3-5 days
	in Water* > Water Sludge	1-2 days	3-5 days	N/A
	in Bulk (Annex2) > Chatfield Full Quant.			
	in Dust > ASTM D5755-03	3-5 days	5-10 days	N/A
Pb by FLAA	Analyte > Pb Other; Matrix > Filter > MCE FG; Paint > by Area (mg/cm²) by Weight (ppm); Soil >; Wipe >; Initial here certifying wipes used are ASTM E1792 compliant	<6 hrs	2-3 days	N/A
Fungi	Air Sample > Zefon Aller Other; Bulk > Sample Swab; Tape Lift > Qualitative (% & type) Quantitative (type/cm2)	<6 hrs	1-2 days	N/A
Soot	ASTM D6602-03b: Optical	<6 hrs	1-2 days	N/A
	ASTM D6602-03b: Optical & TEM	1-2 days	3-5 days	N/A
Other		Call	Call	

Sample # (1 per line)	Description/Location	Sample Date	Sample Time	Vol. or Area
1) M5-A	Brick mortar + NW corner	3/15/24	10:30	
2) M5-B	associated expansion SW corner	↓	↓	
3) M5-C	joint, corners SE corner			
4)	exterior			
5)				
6)				
7)				
8)				
9)				
10)				
11)				
12)				
13)				
14)				
15)				
16)				
17)				
18)				
19)				
20)				

1)Relinquished by: Chase Bucknell	Date: 3/15	Time: 1700	3)Relinquished by:	Date:	Time:
2)Received by:	Date: 3-15-24	Time: 1730	4)Received by:	Date:	Time:
* TEM Water: Sampler's name Required by State of Arizona	Print Name		Fiberquant assigned Job Number>		
Review of Analysis Request (Initials): EH.				Page of	

Note: Data completed by client (including number and identity of samples) is assumed to be correct until it is verified at time of sample preparation.

Appendix B

Site Plan and Asbestos Sample Location Maps

Appendix C

Analytical Laboratory Reports and Chain-of-Custody Documentation