

August 22, 2023

Mr. Andrew Sechen, Land Acquisition Specialist Indian River County Public Works Department 1801 27th Street (Bldg. A)
Vero Beach, FL 32960

Re: Pre-Demolition Asbestos Survey (Addendum)
Retail & Residential Structures
1375 & 1385 32nd St and 3136 & 3146 US Highway 1
Vero Beach, FL 32960
NOVA Project Number 10101-3023019

Dear Mr. Sechen:

As requested by the Client, **NOVA Engineering & Environmental, LLC (NOVA)** had Arrowhead Technologies, LLC (Arrowhead) perform point count analysis of asbestos containing materials (ACMs) identified during NOVA's pre-demolition asbestos survey of the retail and residential structures located at 1375 & 1385 32nd St and 3136 & 3146 US Highway 1, in Vero Beach, Florida. Field work for the Pre-Demolition Asbestos Containing Materials Survey at the Subject Site was performed on July 12<sup>th</sup>, 14<sup>th</sup>, and 17<sup>th</sup> of 2023, in accordance with NOVA Proposal Number: 10101-3023019, dated June 23, 2023.

This letter is an addendum to the original Report of Pre-Demolition Asbestos Containing Materials Survey dated August 10, 2023, for the above referenced project.

On July 12<sup>th</sup>, 14<sup>th</sup>, and 17<sup>th</sup> of 2023, NOVA collected three hundred and seventy-five (375) samples of building materials from the survey areas at the Subject Site. ACM sampling was performed in general accordance with the Asbestos Hazard Emergency Response Act (AHERA) guidelines and ASTM E2356-18," *Standard Practice for Comprehensive Building Asbestos Survey*" as a Baseline Survey. The samples were placed in appropriate containers, and the containers sealed and labeled with a unique identification number. The samples were subsequently transported (following routine industry practices and chain-of-custody procedures) to Arrowhead for analysis. The samples were analyzed using Polarized Light Microscopy (PLM), with **twenty-one (21)** of the analyzed samples indicating asbestos content. Although twenty-one (21) ACMs were identified during this previous survey, the Client specifically requested point count analysis of the following five (5) ACMS:

- 3136-3146 US 1 Silver Coating Material (Btwn Metal Roof Pitch): HSA 30.
- 3136-3146 US 1 Black Tar & Silver Coating Material (Parapet Front of Bldg.): HSA 36.

- 3136-3146 US 1 Black Flashing & Silver Coating Material (South Roof Seams at Metal and Gravel Roof): HSA 37.
- 3136-3146 US 1 White Surfacing Material w/ Paint (Bldg. Interior): HSA 38.
- 3136-3146 US 1 White Textured Material w/ Paint (Main Room Walls & Ceiling): HSA 41.

Below is a summary of point count results:

PC = Point Count Method

### **SUMMARY OF RESULTS**

HSA	Sample Number	Material Type & Location	PLM Analysis	*Estima ted Quantity	EPA Cat.
30	1-3	Black Tar & Silver Coating Over Seams, Roof Corners and Patches (Btwn Metal Roof Pitch)	<b>2% Chr (PLM)</b> 0.75% Chr (PC)	500 ft. <sup>2</sup>	N/A
36	1-3	Black Tar & Silver Coating (Parapet Front of Bldg.)	5% Chr (PLM) 2.25% Chr (PC) & 2% Chr (PLM) 0.50% - 1% Chr (PC)	500 ft. <sup>2</sup>	NF-II
37	1-3	Black Flashing & Silver Coating (South Roof Seams at Metal and Gravel Roof)	5% Chr (PLM) 4% Chr (PC) & 2% Chr (PLM) 1% -1.25% Chr (PC)	1,000 ft. <sup>2</sup>	NF-II
38	1-5	Drywall & White Surfacing Material w/ Paint (Bldg. Interior)	<b>2% Chr (PLM)</b> 0.75% Chr (PC)	5,000 ft. <sup>2</sup>	N/A
41	1-3	Drywall & White Textured Material w/ Paint (Main Room Walls & Ceiling)	<b>2% Chr (PLM)</b> 0.25% - 0.75% Chr (PC)	1,000 ft. <sup>2</sup>	N/A

<sup>(\*):</sup> Neither NOVA nor the client will be held responsible for anyone's use of the estimated quantity. It is suggested that anyone responsible for the project prepare their own quantity estimates.

#### **TABLE LEGEND:**

HSA: Homogenous Sampling Area		QUANTITY ESTIMATE:	Estimated Quantity of HSA	
PLM ANALYSIS:	Chr. = Chrysotile Asbestos	EPA CATEGORY:	F = Friable	
Chr. = Chrysotile Asb	pestos		NF-I = Category I Non-Friable	
Crc. = Crocidolite Asi	bestos		NF-II = Category II Non-Friable	
ND = No Asbestos D	Detected		N/A = Not Applicable	
PLM = Polarized Ligh	ht Microscopy			

Polarized Light Microscopy (PLM) is commonly used for bulk asbestos identification, but it can identify non-asbestos fibers as asbestos. In an effort to eliminate false positives (and

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costly unnecessary abatement), samples reported as containing between 1% and 10% asbestos can be analyzed/verified by point count. The alternative is to assume the subject material to be asbestos containing.

As requested by the Client, NOVA requested that the lab verify the results by point count methodology of the five (5) ACMs selected by the Client to better quantify the actual asbestos content and eliminate any false positives. Point Count results indicate that the Black Tar (HSA-36) and Black Flashing (HSA-37) have an asbestos content of 2.25% & 4% Chrysotile Asbestos, respectively, and the Silver Coating (HSA-30, 36 & 37) has an asbestos content ranging from 0.25% - 1.25% Chrysotile Asbestos. Although some of the Silver Coating material has an asbestos content of less than 1% this material cannot be separated from the other ACMs identified as part of the roof system and therefore should be treated as ACM.

The PLM analysis of the five (5) samples collected from HSA-38, White Surfacing Material, revealed only one (1) sample to be above 1% chrysotile asbestos at 2%. The other four (4) samples were below 1%. It was noted that only one (1) sample out of five (5) contained the actual positive material (White Surfacing Material). That sample was reanalyzed using the EPA Point Count Method. The Point Count analysis revealed a result of 0.75% chrysotile, less than 1%, which is not considered positive for asbestos. Although only one sample contained the positive material it is suspected that the Point Count results are indicative of any of that material that may be present and thus considered to be less than 1%.

Point Count results indicate that the White Textured Material (HSA-41) has an asbestos content ranging from 0.25% - 0.75% Chrysotile Asbestos, less than 1%, which is not considered positive for asbestos.

Please note that the Point Count results for these five (5) samples are for the building addressed as 3136-3146 US 1, and although they appear similar to the materials collected from other structures on site, they are not part of the same homogenous group and therefore these point count results do not apply to these other similar materials.

Construction Industry 29 CFR 1926.1101 regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos fibers be maintained below the Permissible Exposure Limit (PEL) of 0.1 asbestos fibers per cubic centimeter of air (0.1 f/cc). The OSHA standard classifies construction and maintenance activities, which could disturb ACM, and specifies work practices and precautions which employers must follow when engaging in each class of regulated work. In addition to worker protection, the mean and methods necessary for ACM abatement are the sole responsibility of the contractor. However, if the PEL is not exceeded, the area is not considered a regulated area by the OSHA standard.

Any ACMs identified should be handled in accordance with the applicable OSHA and FDEP requirements. Prior to abatement, demolition, or renovation activities, which may disturb ACMs, a written ten (10) working day notification must be submitted to the Florida Department of Environmental Protection, Southeast District. Notifications that do not meet the ten (10) day requirement or are incomplete are considered "improper" and may result in enforcement proceedings. Asbestos abatement contractors must maintain current licensing as required by the Florida Department of Business & Professional Regulation (DBPR) and local jurisdictions for the removal, transportation, disposal, or any other asbestos regulated activity. Please be

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advised that a copy of this report must be onsite during the renovation or demolition of the building, in the event of a regulatory inspection.

Three options exist for the disposition of the ACM roofing materials:

- In its current condition the material is unregulated. Further is unlikely to become friable during demolition. Therefore, the material may remain in place during building demolition provided wet demolition methods are employed and the demolition material is disposed of in a landfill that will accept unregulated asbestos waste.
- The ACM flooring material may be removed prior to demolition by a Florida licensed Asbestos Contractor, or by a licensed building contractor who follows the requirements of Florida Statute 469.

NOVA appreciates the opportunity to be of service to you on this project and looks forward to our continued relationship. If you have any questions regarding this information, please do not hesitate to contact us.

Sincerely,

NOVA Engineering & Environmental, LLC Asbestos Business License #ZA308

Jamey A. Cote Staff Scientist

Accredited Asbestos Inspector

Lawrence G. Schmaltz, PE, FLAC

Florida Licensed Asbestos

Consultant (#AXOO9)

Attachments: Laboratory Report and Chain-of Custody



3151 San Bernadino St. Clearwater, Florida 33759 813-679-0720 / mhall005@tampabay.rr.com

Identification:

NVLAP Lab Code 200703-0

7/17/2023

Client: Nova Lab Set No.: 011998

 Project :
 3136-3146 US 1
 AT Job No. :
 23-11998

 Client Project No.:
 10101-3023019
 Report Date :
 8/15/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

Asbestos, Bulk Sample Analysis

App E to Sub E of 40 CFR Part 763 and EPA Method 600/R-93/116 Page 1 of 20

Sample Date:

On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnes for asbestos analysis by PLM/DS. Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
011998-001	Siding Patch Glue HA17-1	None Detected-White Glue
011998-002	Siding Patch Glue HA17-2	None Detected-White Glue
011998-003	Siding Patch Glue HA17-3	None Detected-White Glue
011998-004	Counter Top Caulk HA18-1	None Detected-White Caulk
011998-005	Counter Top Caulk HA18-2	None Detected-White Caulk
011998-006	Counter Top Caulk HA18-3	None Detected-White Caulk
011998-007	Lt Gray Plaster w/ Paint HA19-1	None Detected-Gray Plaster
011998-008	Lt Gray Plaster w/ Paint HA19-2	None Detected-Gray Plaster
011998-009	Lt Gray Plaster w/ Paint HA19-3	None Detected-Gray Plaster
011998-010	Lt Gray Plaster w/ Paint HA19-4	None Detected-Red Texture w/ Paint None Detected-Gray Plaster
011998-011	Lt Gray Plaster w/ Paint HA19-5	None Detected-Red Texture w/ Paint None Detected-Gray Plaster



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Lab Sample No.	Sample Description / Location	Asbestos Content
011998-012	Lt Gray Plaster w/ Paint HA19-6	None Detected-Gray Plaster
011998-013	Lt Gray Plaster w/ Paint HA19-7	None Detected-Red Texture w/ Paint None Detected-Gray Plaster
011998-014	Dk Gray Plaster w/ Paint HA20-1	None Detected-Gray Plaster w/ Paint
011998-015	Dk Gray Plaster w/ Paint HA20-2	None Detected-Gray Plaster w/ Paint
011998-016	Dk Gray Plaster w/ Paint HA20-3	None Detected-Gray Plaster w/ Paint
011998-017	Dk Gray Plaster w/ Paint HA20-4	None Detected-Gray Plaster w/ Paint
011998-018	Dk Gray Plaster w/ Paint HA20-5	None Detected-Gray Plaster w/ Paint
011998-019	Dk Gray Plaster w/ Paint HA20-6	None Detected-Gray Plaster w/ Paint
011998-020	Dk Gray Plaster w/ Paint HA20-7	None Detected-Gray Plaster w/ Paint
011998-021	Wallboard Painted Walls HA21-1	None Detected-Gray Paint None Detected-Tan Fiberboard
011998-022	Wallboard Painted Walls HA21-2	None Detected-Gray Paint None Detected-Tan Fiberboard



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 Sample Date :
 7/17/2023

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Wallboard Painted Walls HA21-3	None Detected-Gray Paint None Detected-Tan Fiberboard
Window Seal Caulk HA22-1	None Detected-Clear/Gray Caulk
Window Seal Caulk HA22-2	None Detected-Clear/Gray Caulk
Window Seal Caulk HA22-3	None Detected-Clear/Gray Caulk
Dk Gray Crack Filler HA23-1	None Detected-Gray/White Filler
Dk Gray Crack Filler HA23-2	None Detected-Gray/White Filler
Dk Gray Crack Filler HA23-3	None Detected-Gray/White Filler
Red Brick Painted Brown HA24-1	None Detected-Brown Paint None Detected-Red Surfacing None Detected-Gray Stucco None Detected-Tan Mastic
Red Brick Painted Brown HA24-2	None Detected-Brown Paint None Detected-Red Surfacing None Detected-Gray Stucco None Detected-Tan Mastic
	Window Seal Caulk HA22-1 Window Seal Caulk HA22-2 Window Seal Caulk HA22-3 Dk Gray Crack Filler HA23-1 Dk Gray Crack Filler HA23-2 Dk Gray Crack Filler HA23-3 Red Brick Painted Brown HA24-1



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Project: 3136-3146 US 1 AT Job No.: 23-11998 Client Project No.: 10101-3023019 Report Date: 8/15/2023

Sample Date: Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

Asbestos, Bulk Sample Analysis

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Lab Sample No.	Sample Description / Location	Asbestos Content
011998-032	Red Brick Painted Brown HA24-3	None Detected-Brown Paint None Detected-Red Surfacing None Detected-Gray Stucco None Detected-Tan Mastic
011998-033	Lower Siding on Bldg HA25-1	None Detected-Gray Cement Board
011998-034	Lower Siding on Bldg HA25-2	None Detected-Gray Cement Board
011998-035	Lower Siding on Bldg HA25-3	None Detected-Gray Cement Board
011998-036	Stucco Patch HA26-1	None Detected-Gray Stucco w/ Paint
011998-037	Stucco Patch HA26-2	None Detected-Gray Stucco w/ Paint
011998-038	Stucco Patch HA26-3	None Detected-Gray Stucco w/ Paint
011998-039	Shingle Roof HA27-1	None Detected-Black Roofing Shingle None Detected-Black Tar None Detected-Black Roofing Felt
011998-040	Shingle Roof HA27-2	None Detected-Black Roofing Shingle None Detected-Black Tar None Detected-Black Roofing Felt



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 10101-3023019
 Report Date :
 8/15/2023

Identification: Asbestos, Bulk Sample Analysis Sample Date: 7/17/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

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On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnes for asbestos analysis by PLM/DS. Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
011998-041	Shingle Roof HA27-3	None Detected-Black Roofing Shingle None Detected-Black Tar None Detected-Black Roofing Felt
011998-042	Gravel Roof HA28-1	None Detected-Gravel None Detected-White Compound Material None Detected-Black Tar
011998-043	Gravel Roof HA28-2	None Detected-Gravel None Detected-White Compound Material None Detected-Black Tar
011998-044	Gravel Roof HA28-3	None Detected-Gravel None Detected-White Compound Material None Detected-Black Tar
011998-045	Asphalt Roof Patch over Tar/Gravel HA29-1	None Detected-Black Roof Membrane None Detected-Black Tar 2% Chrysotile-Silver Coating Material
011998-046	Asphalt Roof Patch over Tar/Gravel HA29-2	None Detected-Black Roof Membrane None Detected-Black Tar



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Client: Nova Lab Set No.: 011998

Project : 3136-3146 US 1 AT Job No. : 23-11998

Client Project No.: 10101-3023019 Report Date : 8/15/2023

Identification: Asbestos, Bulk Sample Analysis Sample Date: 7/17/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

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Lab Sample No.	Sample Description / Location	Asbestos Content
011998-047	Asphalt Roof Patch over Tar/Gravel HA29-3	None Detected-Black Roof Membrane None Detected-Black Tar
011998-048	Black Tar over Seams HA30-1	None Detected-Black Tar 2% Chrysotile-Silver Coating Material 0.75% Chrysotile-Silver Coating Materi (By Point Count)
011998-049	Black Tar over Seams HA30-2	None Detected-Black Tar
011998-050	Black Tar over Seams HA30-3	None Detected-Black Tar
011998-051	Roof Seam Pitch HA31-1	None Detected-Black Tar None Detected-White Coating None Detected-Yellow Polyfoam
011998-052	Roof Seam Pitch HA31-2	None Detected-Black Tar None Detected-White Coating None Detected-Yellow Polyfoam
011998-053	Roof Seam Pitch HA31-3	None Detected-Black Tar None Detected-White Coating None Detected-Yellow Polyfoam



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Client: Nova Lab Set No.: 011998

 Project :
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 AT Job No. :
 23-11998

 Client Project No.:
 10101-3023019
 Report Date :
 8/15/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

Asbestos, Bulk Sample Analysis

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Sample Date:

On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnes for asbestos analysis by PLM/DS. Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
011998-054	Gray under Metal Roof HA32-1	None Detected-Blue Gray Coating None Detected-Mesh Wrap None Detected-Black Tar
011998-055	Gray under Metal Roof HA32-2	None Detected-Blue Gray Coating None Detected-Mesh Wrap None Detected-Black Tar
011998-056	Gray under Metal Roof HA32-3	None Detected-Blue Gray Coating None Detected-Mesh Wrap None Detected-Black Tar
011998-057	Black Roof Flashing HA33-1	5% Chrysotile-Black Flashing 2% Chrysotile-Silver Coating
011998-058	Black Roof Flashing HA33-2	Not Analyzed
011998-059	Black Roof Flashing HA33-3	Not Analyzed
011998-060	White/Gray Flashing HA34-1	None Detected-Gray Flashing None Detected-White Flashing
011998-061	White/Gray Flashing HA34-2	None Detected-Gray Flashing None Detected-White Flashing



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Client: Nova Lab Set No.: 011998

Project: 3136-3146 US 1 AT Job No.: 23-11998

Client Project No.: 10101-3023019 Report Date: 8/15/2023

Identification: Asbestos, Bulk Sample Analysis Sample Date: 7/17/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

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Lab Sample No.	Sample Description / Location	Asbestos Content
011998-062	White/Gray Flashing HA34-3	None Detected-Gray Flashing None Detected-White Flashing
011998-063	White Flashing HA35-1	None Detected-White/Gray Flashing
011998-064	White Flashing HA35-2	None Detected-White/Gray Flashing
011998-065	White Flashing HA35-3	None Detected-White/Gray Flashing
011998-066	Black Pitch on Parapit HA36-1	None Detected-Black Tar None Detected-Silver Coating 5% Chrysotile-Black Tar 2 2.25% Chrysotile-Black Tar 2 (By Point Count) 2% Chrysotile-Silver Coating 2 0.50% Chrysotile-Silver Coating 2 (By Point Count)
011998-067	Black Pitch on Parapit HA36-2	None Detected-Black Tar None Detected-Silver Coating 5% Chrysotile-Black Tar 2 2% Chrysotile-Silver Coating 2 1.00% Chrysotile-Silver Coating 2 (By Point Count)



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Client Project No.: 10101-3023019 Report Date: 8/15/2023

Identification: Asbestos, Bulk Sample Analysis Sample Date: 7/17/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

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Lab Sample No.	Sample Description / Location	Asbestos Content
011998-068	Black Pitch on Parapit HA36-3	None Detected-Black Tar None Detected-Silver Coating 5% Chrysotile-Black Tar 2 2% Chrysotile-Silver Coating 2 0.75% Chrysotile-Silver Coating 2 (By Point Count)
011998-069	Black Flashing HA37-1	None Detected-Black Tar None Detected-Silver Coating 5% Chrysotile-Black Tar 2 4.00% Chrysotile-Black Tar 2 (By Point Count) 2% Chrysotile-Silver Coating 2 1.00% Chrysotile-Silver Coating 2 (By Point Count)
011998-070	Black Flashing HA37-2	None Detected-Black Tar None Detected-Silver Coating 5% Chrysotile-Black Tar 2 2% Chrysotile-Silver Coating 2 1.25% Chrysotile-Silver Coating 2 (By Point Count)



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Project : 3136-3146 US 1 AT Job No. : 23-11998

Client Project No.: 10101-3023019 Report Date : 8/15/2023

Identification: Asbestos, Bulk Sample Analysis Sample Date: 7/17/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

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On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnes for asbestos analysis by PLM/DS. Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
011998-071	Black Flashing HA37-3	None Detected-Black Tar None Detected-Silver Coating 5% Chrysotile-Black Tar 2 2% Chrysotile-Silver Coating 2
011998-072	Drywall Smooth Surface HA38-1	None Detected-Yellow Green Coating None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011998-073	Drywall Smooth Surface HA38-2	None Detected-Yellow Green Coating None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011998-074	Drywall Smooth Surface HA38-3	None Detected-Yellow Green Coating None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011998-075	Drywall Smooth Surface HA38-4	None Detected-Yellow Green Coating None Detected-Tan DW Paper Backing None Detected-White Drywall Material



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Drywall Smooth Surface HA38-5	2% Chrysotile-White Surfacing w/ Paint 0.75% Chrysotile-White Surfacing w/ Pa (By Point Count) None Detected-Tan DW Paper Backing None Detected-White Drywall Material
2 Layers Flooring HA39-1	None Detected-Tan Linoleum Surface None Detected-Gray Backing None Detected-Beige Adhesive None Detected-Tan Floor Tile None Detected-Yellow Mastic None Detected-Gray Leveling Comp.
2 Layers Flooring HA39-2	None Detected-Tan Linoleum Surface None Detected-Gray Backing None Detected-Beige Adhesive None Detected-Tan Floor Tile None Detected-Yellow Mastic None Detected-Gray Leveling Comp.
	2 Layers Flooring HA39-1



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813-679-0720 / mhall005@tampabay.rr.com NVLAP Lab Code 200703-0

Client: Nova Lab Set No.: 011998

Project: 3136-3146 US 1 AT Job No.: 23-11998

Client Project No.: 10101-3023019 Report Date: 8/15/2023

Identification: Asbestos, Bulk Sample Analysis Sample Date: 7/17/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

App E to Sub E of 40 CFR Part 763 and EPA Method 600/R-93/116 Page 12 of 20

On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnes for asbestos analysis by PLM/DS. Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
011998-079	2 Layers Flooring HA39-3	None Detected-Tan Linoleum Surface None Detected-Gray Backing None Detected-Beige Adhesive None Detected-Tan Floor Tile None Detected-Yellow Mastic None Detected-Gray Leveling Comp.
011998-080	SCT w/ Fissures/Pinholes HA40-1	None Detected-White Ceiling Tile
011998-081	SCT w/ Fissures/Pinholes HA40-2	None Detected-White Ceiling Tile
011998-082	SCT w/ Fissures/Pinholes HA40-3	None Detected-White Ceiling Tile
011998-083	Textured Drywall HA41-1	2% Chrysotile-White Texture w/ Paint 0.50% Chrysotile-White Texture w/ Paint (By Point Count) None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011998-084	Textured Drywall HA41-2	2% Chrysotile-White Texture w/ Paint 0.25% Chrysotile-White Texture w/ Paint (By Point Count) None Detected-Tan DW Paper Backing None Detected-White Drywall Material



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Client Project No.: 10101-3023019

NVLAP Lab Code 200703-0

8/15/2023

Client: Nova Lab Set No.: 011998

Project: 3136-3146 US 1 AT Job No.: 23-11998

Identification: Asbestos, Bulk Sample Analysis Sample Date: 7/17/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

App E to Sub E of 40 CFR Part 763 and EPA Method 600/R-93/116 Page 13 of 20

Report Date:

On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnes for asbestos analysis by PLM/DS. Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
011998-085	Textured Drywall HA41-3	2% Chrysotile-White Texture w/ Paint 0.75% Chrysotile-White Texture w/ Paint (By Point Count) None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011998-086	Brown VFT w/ Mastic HA42-1	2% Chrysotile-Brown Floor Tile 5% Chrysotile-Black Mastic
011998-087	Brown VFT w/ Mastic HA42-2	Not Analyzed
011998-088	Brown VFT w/ Mastic HA42-3	Not Analyzed
011998-089	Green VFT w/ Mastic HA43-1	None Detected-Green Floor Tile None Detected-Clear Adhesive
011998-090	Green VFT w/ Mastic HA43-2	None Detected-Green Floor Tile None Detected-Clear Adhesive
011998-091	Green VFT w/ Mastic HA43-3	None Detected-Green Floor Tile None Detected-Clear Adhesive
011998-092	Brown Peel N Stick Flooring w/ Glue HA44-1	None Detected-Brown Floor Tile None Detected-Clear Adhesive



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Client: Nova Lab Set No.: 011998

Project : 3136-3146 US 1 AT Job No. : 23-11998

Client Project No.: 10101-3023019 Report Date : 8/15/2023

Identification: Asbestos, Bulk Sample Analysis Sample Date: 7/17/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

App E to Sub E of 40 CFR Part 763 and EPA Method 600/R-93/116 Page 14 of 20

On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnes for asbestos analysis by PLM/DS. Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
011998-093	Brown Peel N Stick Flooring w/ Glue HA44-2	None Detected-Brown Floor Tile None Detected-Clear Adhesive
011998-094	Brown Peel N Stick Flooring w/ Glue HA44-3	None Detected-Brown Floor Tile None Detected-Clear Adhesive
011998-095	Gray Plaster HA45-1	None Detected-White Plaster w/ Paint None Detected-Gray Plaster None Detected-Black Mastic
011998-096	Gray Plaster HA45-2	None Detected-White Plaster w/ Paint None Detected-Gray Plaster
011998-097	Gray Plaster HA45-3	None Detected-White Plaster w/ Paint None Detected-Gray Plaster
011998-098	Gray Plaster HA45-4	None Detected-White Plaster w/ Paint None Detected-Gray Plaster
011998-099	Gray Plaster HA45-5	None Detected-White Plaster w/ Paint None Detected-Gray Plaster
011998-100	Black Vinyl Baseboards w/ Glue HA46-1	None Detected-Black Baseboard None Detected-Yellow Glue



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Identification:

NVLAP Lab Code 200703-0

7/17/2023

Client: Nova Lab Set No.: 011998

 Project :
 3136-3146 US 1
 AT Job No. :
 23-11998

 Client Project No.:
 10101-3023019
 Report Date :
 8/15/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

Asbestos, Bulk Sample Analysis

App E to Sub E of 40 CFR Part 763 and EPA Method 600/R-93/116 Page 15 of 20

Sample Date:

On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnes for asbestos analysis by PLM/DS. Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
011998-101	Black Vinyl Baseboards w/ Glue HA46-2	None Detected-Black Baseboard None Detected-Yellow Glue
011998-102	Black Vinyl Baseboards w/ Glue HA46-3	None Detected-Black Baseboard None Detected-Yellow Glue
011998-103	HVAC Duct/Insulation HA47-1	None Detected-White Coating None Detected-Silver/Tan Wrap None Detected-Pink Glass Insulation
011998-104	HVAC Duct/Insulation HA47-2	None Detected-White Coating None Detected-Silver/Tan Wrap None Detected-Pink Glass Insulation
011998-105	HVAC Duct/Insulation HA47-3	None Detected-White Coating None Detected-Silver/Tan Wrap None Detected-Pink Glass Insulation
011998-106	Silver Tape HA48-1	None Detected-Silver Foil None Detected-Yellow Adhesive
011998-107	Silver Tape HA48-2	None Detected-Silver Foil None Detected-Yellow Adhesive



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 AT Job No. :
 23-11998

 Client Project No.:
 10101-3023019
 Report Date :
 8/15/2023

Identification: Asbestos, Bulk Sample Analysis Sample Date: 7/17/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

App E to Sub E of 40 CFR Part 763 and EPA Method 600/R-93/116 Page 16 of 20

On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnes for asbestos analysis by PLM/DS. Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
011998-108	Silver Tape HA48-3	None Detected-Silver Foil None Detected-Yellow Adhesive
011998-109	2 Layers VFT w/ Leveling Compound HA49-1	None Detected-Gray Coating None Detected-Tan Floor Tile None Detected-Tan Mastic None Detected-Gray Leveling Comp.
011998-110	2 Layers VFT w/ Leveling Compound HA49-2	None Detected-Gray Coating None Detected-Tan Floor Tile None Detected-Tan Mastic None Detected-Gray Leveling Comp.
011998-111	2 Layers VFT w/ Leveling Compound HA49-3	None Detected-Gray Coating None Detected-Tan Floor Tile None Detected-Tan Mastic None Detected-Gray Leveling Comp.
011998-112	Office Insulation Silver Backing Foam HA50-1	None Detected-White/Tan Surface None Detected-Yellow Polyfoam None Detected-Silver/Tan Backing



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Client: Nova Lab Set No.: 011998

Project: 3136-3146 US 1 AT Job No.: 23-11998

Client Project No.: 10101-3023019 Report Date: 8/15/2023

Identification: Asbestos, Bulk Sample Analysis Sample Date: 7/17/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

App E to Sub E of 40 CFR Part 763 and EPA Method 600/R-93/116 Page 17 of 20

On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnes for asbestos analysis by PLM/DS. Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
011998-113	Office Insulation Silver Backing Foam HA50-2	None Detected-White/Tan Surface None Detected-Yellow Polyfoam None Detected-Silver/Tan Backing
011998-114	Office Insulation Silver Backing Foam HA50-3	None Detected-White/Tan Surface None Detected-Yellow Polyfoam None Detected-Silver/Tan Backing
011998-115	Black Paneling w/ Glue HA51-1	3% Chrysotile-Black Mastic None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011998-116	Black Paneling w/ Glue HA51-2	3% Chrysotile-Black Mastic None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011998-117	Black Paneling w/ Glue HA51-3	3% Chrysotile-Black Mastic None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011998-118	VFT w/ Leveling Compound HA52-1	None Detected-Gray Floor Tile None Detected-Yellow Mastic None Detected-Gray Leveling Compound



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 Client Project No.:
 10101-3023019
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Identification: Asbestos, Bulk Sample Analysis Sample Date: 7/17/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

App E to Sub E of 40 CFR Part 763 and EPA Method 600/R-93/116 Page 18 of 20

On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnes for asbestos analysis by PLM/DS. Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
011998-119	VFT w/ Leveling Compound HA52-2	None Detected-Gray Floor Tile None Detected-Yellow Mastic None Detected-Gray Leveling Compound
011998-120	VFT w/ Leveling Compound HA52-3	None Detected-Gray Floor Tile None Detected-Yellow Mastic None Detected-Gray Leveling Compound
011998-121	Wall Paper HA53-1	None Detected-White Coating None Detected-Brown Wood Panel
011998-122	Wall Paper HA53-2	None Detected-White Coating None Detected-Brown Wood Panel
011998-123	Wall Paper HA53-3	None Detected-White Coating None Detected-Brown Wood Panel
011998-124	White Wallboard HA54-1	None Detected-White Coating None Detected-Brown Fiberboard
011998-125	White Wallboard HA54-2	None Detected-White Coating None Detected-Brown Fiberboard



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 Report Date :
 8/15/2023

Identification: Asbestos, Bulk Sample Analysis Sample Date: 7/17/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

App E to Sub E of 40 CFR Part 763 and EPA Method 600/R-93/116 Page 19 of 20

On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnes for asbestos analysis by PLM/DS. Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
011998-126	White Wallboard HA54-3	None Detected-White Coating None Detected-Brown Fiberboard
011998-127	Caulk HA55-1	None Detected-White Caulk
011998-128	Caulk HA55-2	None Detected-White Caulk
011998-129	Caulk HA55-3	None Detected-White Caulk
011998-130	Wallboard HA56-1	None Detected-Tan Fiberboard
011998-131	Wallboard HA56-2	None Detected-Tan Fiberboard
011998-132	Wallboard HA56-3	None Detected-Tan Fiberboard
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813-679-0720 / mhall005@tampabay.rr.com NVLAP Lab Code 200703-0

Client: Nova Lab Set No.: 011998

Project: 3136-3146 US 1 AT Job No.: 23-11998

Client Project No.: 10101-3023019 Report Date: 8/15/2023

Identification: Asbestos, Bulk Sample Analysis Sample Date: 7/17/2023

Test Method: Polarized Light Microscopy / Dispersion Staining (PLM/DS)

App E to Sub E of 40 CFR Part 763 and EPA Method 600/R-93/116 Page 20 of 20

### SCOPE OF THIS REPORT

These samples were obtained as a part of a building survey; this report is only intended to be used as a part of the survey report issued by the surveyor. This report explains the laboratory analysis and results. The surveyor's report explains the sampling protocol used, when the samples were obtained, the location(s) of the samples, where the materials were observed in the building, quantities of materials observed, condition of the materials and the extent of his/her survey. Sample locations and material descriptions are given by the surveyor on the chain of custody but included here (possibly abbreviated) only as a convenience for the reader.

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### STATEMENT OF LABORATORY ACCREDITATION

The samples were analyzed in general accordance with the procedures outlined in the Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116, and the Interim Method for the Determination of Asbestos in Bulk Insulation Samples, EPA 600/M4-82-020. The results of each bulk sample relate only to the material tested as received and the results shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Floor tile and other resinously bound materials, when analyzed by the EPA method, may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. When a definitive result is required, Arrowhead recommends utilizing alternative methods of identification, including Transmission Electron Microscopy.

Specific questions concerning bulk sample results shall be directed to the Laboratory Director.

Analyst: Ryan Schwegman

Laboratory Director: Monte Hall, P.G.

Florida Registration No. 1658

Monte Hall

Approved Signatory:

Company NOVA ENC	NOVA ENGINEERING & ENVIRONMENTAL 4524 Oak Fair Rouleward Suite 200		Asbestos C	Asbestos Chain of Custody Record	y Record
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Project	Project and/or Job Number:	10101-3023019		Phone: 813-267-6044	FAX:			
Project	t Address: 5/56-	3144 U-S-1 Vero	BUH	Email: LABREPORTSENV@USANOVA.COM	NOVA.COM		,	
HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
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100/2 30 23 30/9 Phone:	813 267 1004	FAX:			
5146 US I Ver BCH Email:	LABREPORTSENV@USANOVA.COM	IOVA.COM			
HSA Sample Material Description Sample Hom (include size/color) Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
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Company		NOVA ENGINEERING & ENVIRONMENTAL						
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Project	Project and/or Job Number:	10/01-3023 019	1301	Phone: 8/3 267-6044 FAX:	FAX:			
Project	Project Address: 2/ 20	3/10 (2.5)					1,4	
HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Yes/No
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136-4 Special Instructions:

Pron Schepen 7 (18/2013

Company	}	NOVA ENGINEERING & ENVIRONMENTAL 4524 Oak Pair Boulevard Suite 200		Asbestos Chain of Custody Record	hain of	Custo	dy Rec	ord
City /	ate /	Tampa, FL 33610		Normal 3 Day	ay Same Day	e Day	Immediate	te
Phone		FAX 813-623-3545 Email		Stop First Positive: Yes	,	("Receive Cut Off Time; 2pm)	ut Off Time	2pm
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Project Project	Project and/or Job Number: 10/0 Project Address: 33/3-931	10101-3073019 1-93146 43 + Vero	Bet	S13-267-6044	FAX.			
HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
42	-3	Brown NFT W		SOUTH WHSE Bathroom	50	4	1	2
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Phone 813-623-3100   PAX 813-623-3545   Email   Stop Flist Positive: Vise   Model   Phone	Company NOVA EN Address 4524 Oak City / State / Zip Tam	NOVA ENGINEERING & ENVIRONMENTAL 4524 Oak Fair Bouleyard, Suite 200 Zip Tampa, FL 33610		Asbestos Chain of Cust	Asbestos Chain of Custody Record	ody Record
12.3 Countries Sample Homose S13. 267 6044 FAX LLS I Veco Sch Enail: LABREPORTSENVAUSANOVA FINAL Description Sample Homogeneous Area Locations Sample Homogeneous Area Locations Sample Simali Office of the Structure from Simali Office South Certified Simali Homogeneous Area Locations Sample Simali Homogeneous Area Locations Sample Simali Office South Certified Simali Octobro Simali Office South Certified Simali Country Roll of Structure South Office South Certified South Cer	-623-3100	FAX 813-623-3545		Stop First Positive: Yes	No ("Receive	("Receive Cut Off Time: 2nm)
LLS ( Veco BCH)  Email: LABREORISEN/GUSANOVACOM  Sumple  Homogeneous Area Location  Sumple  Homogeneous Area Location  Sumple  Homogeneous Area Location  Sumple  Homogeneous Area Location  Sumple  Location  Sumple  Location  Sumple  Homogeneous Area Location  Sumple  Location  Sumple  Location  Sumple  Location  Sumple  Location  Sumple  Location  Sumple  Location  Location  Location  Sumple  Location	ner: Ludu	(0/6/- 302301	Morles	2-17-23 Cournet:	B. McKinn	52
1 County Control Sample Homogeneous Area Locations Sample Homogeneous Area Locations Sample Homogeneous Area Locations Sample Section Office	Iress: 3/36	3146 U.S. 1 Vero	3cH	LABREPORTSENV@U	NOVA.COM	
9 VFT or Small office often 100  This what or worth office Section 100  This what had been the worth of the section 100  The word of the word of the office of the section 100  The word of the word of the office of the section 100  The word of the state of the work of the world		Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Cond.	Pot. Friable
Insulation  Leveling food and the control of the co	5-1	Leveling compand		Small office area	00/	
Coold wall  (Stack)	5-3	1 0 4		Walls and Ceiling in office - South	000	
parker - Apt 3134 South office Floor - 100  Parker - Apt 3134  Parker - Apt 3134  Parker - Apt 3134  Parker - Apt 3134  Parker - W/dis Play and Kithen 200  Powed - W/dis Play baying Product - 800  Moles for the Malls Court Control WHSE  South - Show room Soo  WHSE - Show room  Double: 7-17.23.  Received By I Date:  Date: 7-17.23.  Received By I Date:	5	(Black)	700	Wole off	300	
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Hop walls Date: 7-17.23.  Received By Date:	<u> </u>	Join Po	3134	-	300	
hop walls with the sature Roll or 500  Date: 7-17.23  Received By/Date:  Date: 7-17.23  Received By/Date:	6-1	white-w/display	र किर	Front central wHSE	300	
hop walls whst door Soo Soo		1	00	WHSE-Showroom	200	
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	v: 3, 1 d By: fructions:	Date:	7-17.23.	Received By / Date:	English	2102/811/