

# ASBESTOS CONTAINING MATERIALS SURVEY



## **Retail & Residential Structures**

**1375 & 1385 32nd St and 3136 & 3146 US 1  
Vero Beach, FL 32960**

## **PREPARED FOR:**

**Indian River County Public Works Department  
1801 27th Street (Bldg. A)  
Vero Beach, FL 32960**

**NOVA Project Number: 10101-3023019**

**August 10, 2023**



August 10, 2023

**Indian River County Public Works Department**  
1801 27th Street (Bldg. A)  
Vero Beach, FL 32960

**Attention:** Mr. Andrew Sechen  
Land Acquisition Specialist

**Subject:** **Pre-Demolition Asbestos Survey**  
**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:

**NOVA Engineering and Environmental LLC (NOVA)** has completed the Pre-Demolition Asbestos Containing Materials (ACMs) Survey of all retail & residential structures located at 1375 & 1385 32nd St and 3136 & 3146 US Highway 1 in Vero Beach, Florida (Subject Property). We appreciate your selection of NOVA and for the opportunity to be of service on this project. Please feel free to contact us if you have any questions or if we may be of further assistance.

Sincerely,  
**NOVA Engineering and Environmental LLC**

A handwritten signature in blue ink, appearing to read "Jamey Cote".

Jamey Cote  
Field Scientist  
Accredited Asbestos Inspector

A handwritten signature in black ink, appearing to read "Larry G. Schmaltz".

Larry G. Schmaltz, P.E., G.C.  
Florida Licensed Asbestos  
Consultant (#AX009)

Copies Submitted: Addressee (electronic)

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# 1.0 SUMMARY

A summary of our findings is presented below. This summary is provided for convenience and should not be substituted for review of the full report, including all attachments as provided herein.

## 1.1 ASBESTOS

During this study, three hundred and seventy-five (375) samples of building materials were collected by NOVA from the survey areas, resulting in eight hundred and thirty-two (832) analyses due to sample layering. The samples were subsequently transported (following routine industry practices and chain-of-custody procedures) to Arrowhead Technologies, LLC (Arrowhead), and analyzed using Polarized Light Microscopy (PLM), with **twenty-one (21)** of the analyzed samples indicating asbestos content.

Below is a summary of suspect ACM identified and sampled within the survey areas:

### SUMMARY OF RESULTS 1375 32nd St

HSA	Sample Number	Material Type & Location	PLM Analysis	*Estimated Quantity	EPA Cat.
1	1-5	Stucco/Plaster w/ Texture (Exterior Walls)	ND	2,000 ft. <sup>2</sup>	N/A
2	1-3	Decorative Brick (Exterior Walls)	ND	500 ft. <sup>2</sup>	N/A
3	1-3	Silver Foil Backing w/ Insulation & Adhesive (Ceiling Lights)	ND	25 ft. <sup>2</sup>	N/A
4	1-3	Brick (Fireplace)	ND	100 ft. <sup>2</sup>	N/A
5	1-3	Textured Wallboard (Outside Over Windows/Walls)	ND	100 ft. <sup>2</sup>	N/A
6	1-3	Asphalt Rolled Roof (West Overhanging Roof)	ND	300 ft. <sup>2</sup>	N/A
7	1-3	Black Flashing (Main Roof Stacks)	ND	100 ft. <sup>2</sup>	N/A
8	1-3	Masking Tape (Roof TV Antenna)	ND	10 ft. <sup>2</sup>	N/A
9	1-3	Shingle Roof (Main Roof)	ND	1,000 ft. <sup>2</sup>	N/A
10	1-3	Black Asphalt (Exterior Around Structure)	ND	1,000 ft. <sup>2</sup>	N/A
11	1-3	Concrete Pad (Exterior North & West of Structure)	ND	500 ft. <sup>2</sup>	N/A
12	1-3	<b>White Sink Coating (Unit B)</b>	<b>2% Chr</b>	<b>25 ft.<sup>2</sup></b>	<b>NF-II</b>
13	1-3	Drywall w/ Tape & Plaster (Interior Walls)	ND	1,000 ft. <sup>2</sup>	N/A
14	1-3	Plaster Walls (Behind Interior Walls)	ND	1,000 ft. <sup>2</sup>	N/A
15	1-3	Textured Wallboard (Unit A Interior Ceiling & Walls)	ND	500 ft. <sup>2</sup>	N/A
16	1-3	Black Tar Roof Repair (Above Unit A Kitchen)	ND	25 ft. <sup>2</sup>	N/A

17	1-3	Concrete w/ Mortar (Unit A Bathroom)	ND	100 ft. <sup>2</sup>	N/A
18	1-3	Gray Linoleum Type Floor (Unit A Kitchen)	ND	150 ft. <sup>2</sup>	N/A
19	1-3	Light Strip w/ Adhesive (Unit A Front Door Exterior)	ND	50 ft. <sup>2</sup>	N/A
20	1-3	White Caulk - Wood Floor Crack Sealant (Unit A Living Room, Kitchen & Closet Floors)	ND	150 ft. <sup>2</sup>	N/A
21	1-3	Multiple Layered Flooring & Mastic. <b>Gray Vinyl Floor Tile &amp; Black Mastic (Unit A Living Room Floor)</b>	2% & 5% Chr	150 ft. <sup>2</sup>	NF-I
22	1-3	Multiple Layered Flooring & Mastic. <b>Gray Vinyl Floor Tile &amp; Black Mastic (Unit A Bathroom &amp; Bedroom Doorways)</b>	2% & 5% Chr	70 ft. <sup>2</sup>	NF-I
23	1-3	Yellow Ceramic Floor Tile & Mortar (Unit A Bathroom Tub)	ND	50 ft. <sup>2</sup>	N/A
24	1-3	Layered Flooring (Unit A Bathroom)	ND	50 ft. <sup>2</sup>	N/A
25	1-3	Layered Flooring (Unit A Bedroom)	ND	200 ft. <sup>2</sup>	N/A
26	1-3	Layered Flooring (Unit B Kitchen)	ND	150 ft. <sup>2</sup>	N/A
27	1-3	Layered Flooring (Unit B Bathroom)	ND	100 ft. <sup>2</sup>	N/A
28	1-3	Multiple Layered Flooring & Mastic. <b>Green Vinyl Floor Tile &amp; Black Mastic (Unit B Living Room &amp; Bedroom)</b>	2% & 5% Chr	300 ft. <sup>2</sup>	NF-I
29	1-3	Window Flashing (All Units)	ND	400 ft. <sup>2</sup>	N/A
30	1-3	Window Caulk (All Units)	ND	1,000 ft. <sup>2</sup>	N/A
31	1-3	Layered Flooring (Unit C Interior)	ND	500 ft. <sup>2</sup>	N/A

**SUMMARY OF RESULTS**  
**1385 32nd St., Apts A & B**

HSA	Sample Number	Material Type & Location	PLM Analysis	*Estimated Quantity	EPA Cat.
1	1-1	Tar Covered Shingles (Unit A & B Roof Pitch)	ND	800 ft. <sup>2</sup>	N/A
2	1-3	Roofing Shingles (Unit A & B Roof Pitch)	ND	800 ft. <sup>2</sup>	N/A
3	1-3	<b>Black Tar &amp; Gravel Roof (Center Roof Btwn. Pitches)</b>	5% Chr	600 ft. <sup>2</sup>	NF-II
4	1-3	Gray/White Caulk w/ <b>Black Tar (Roof Seams Under Eaves)</b>	5% Chr	100 ft. <sup>2</sup>	NF-II
5	1-3	Gray Flashing, <b>Black Tar &amp; Silver Coating (Unit A Front Eaves)</b>	2% & 5% Chr	25 ft. <sup>2</sup>	NF-II
6	1-3	Gray/Brown Flashing (Unit A & B Roof Overhang)	ND	50 ft. <sup>2</sup>	N/A
7	1-3	Gray Flashing, <b>Black Tar &amp; Silver Coating (Unit A &amp; B Roof Overhang &amp; Stacks)</b>	2% & 5% Chr	100 ft. <sup>2</sup>	NF-II
8	1-3	Brick & Mortar (Center of Structure)	ND	500 ft. <sup>2</sup>	N/A

9	1-3	Concrete Pad (Unit A Exterior Front & Back Doors)	ND	50 ft. <sup>2</sup>	N/A
10	1-3	Wallboard over Wood (Units A & B Walls)	ND	1,000 ft. <sup>2</sup>	N/A
11	1-3	Skirt Paneling (Around Exterior of Structure)	ND	1,000 ft. <sup>2</sup>	N/A
12	1-3	Ceiling Drywall w/ Rough Texture (Unit A Bedroom)	ND	500 ft. <sup>2</sup>	N/A
13	1-3	Peel N Stick Vinyl Type Floor & Adhesive (Unit A Living Room & Kitchen)	ND	200 ft. <sup>2</sup>	N/A
14	1-3	<b>Drywall &amp; White Textured Material w/ Paint (Unit A Bedroom)</b>	<b>2% Chr</b>	<b>200 ft.<sup>2</sup></b>	<b>NF-II**</b>
15	1-3	Wallpaper & Adhesive (Unit A Kitchen, Bathroom & Living Room)	ND	200 ft. <sup>2</sup>	N/A
16	1-3	2' x 4' Ceiling Tiles w/ Pinholes/Fissures (Unit A Kitchen & Living Room)	ND	200 ft. <sup>2</sup>	N/A
17	1-3	Two Layers of Linoleum Flooring & Mastic (Unit A Bedroom)	ND	200 ft. <sup>2</sup>	N/A
18	1-3	Tan Counter Caulk (Unit A Kitchen Sink)	ND	50 ft. <sup>2</sup>	N/A
19	1-3	<b>White Surfacing Material w/ Paint Over Plaster Located Behind Drywall &amp; Above Ceiling Tiles (Unit A Kitchen, Living Room &amp; Bathroom)</b>	<b>2% Chr</b>	<b>200 ft.<sup>2</sup></b>	<b>NF-II**</b>
20	1-3	Plaster behind Drywall & Above Ceiling Tiles (Unit B Kitchen, Living Room & Bedroom)	ND	400 ft. <sup>2</sup>	N/A
21	1-3	<b>Drywall &amp; White Textured Material w/ Paint (Unit B Bedroom)</b>	<b>2% Chr</b>	<b>200 ft.<sup>2</sup></b>	<b>NF-II**</b>
22	1-3	<b>Textured Wallboard Ceiling w/ Paint (Unit B Bedroom)</b>	<b>2% Chr</b>	<b>200 ft.<sup>2</sup></b>	<b>NF-II**</b>
23	1-3	White/Tan Smooth Textured Drywall (Unit B Bedroom)	ND	200 ft. <sup>2</sup>	N/A
24	1-3	Lt Brown Vinyl Covered Wallboard (Unit B Kitchen & Living Room Walls)	ND	200 ft. <sup>2</sup>	N/A
25	1-3	White Counter Caulk (Unit B Kitchen)	ND	100 ft. <sup>2</sup>	N/A
26	1-3	Yellow Countertop & Adhesive (Unit B Kitchen)	ND	100 ft. <sup>2</sup>	N/A
27	1-3	Black Sink Coating (Unit B Kitchen)	ND	10 ft. <sup>2</sup>	N/A
28	1-3	Smooth Brown Wallboard Walls (Unit B Kitchen & Living Room)	ND	200 ft. <sup>2</sup>	N/A
29	1-3	Silver Paper w/ Yellow Insulation (Unit B Bedroom)	ND	100 ft. <sup>2</sup>	N/A
30	1-3	Peel N Stick Flooring & Adhesive over Wood (Unit B Living Room, Bathroom & Bedroom)	ND	400 ft. <sup>2</sup>	N/A

31	1-3	Black Window Flashing (Window Exterior)	ND	500 ft. <sup>2</sup>	N/A
32	1-3	White Window Caulk (Window Exterior)	ND	500 ft. <sup>2</sup>	N/A
33	1-3	Tan Window Caulk (Window Exterior)	ND	500 ft. <sup>2</sup>	N/A
34	1-3	Duct Tape Seal Around Windows (Windows)	ND	25 ft. <sup>2</sup>	N/A

**SUMMARY OF RESULTS**  
**1385 32nd St., Apts C & D**

HSA	Sample Number	Material Type & Location	PLM Analysis	*Estimated Quantity	EPA Cat.
1	1-1	Crack Filler in Concrete (Unit C Floor)	ND	10 ft. <sup>2</sup>	N/A
2	1-3	Concrete Painted Blue (Unit C Floor)	ND	400 ft. <sup>2</sup>	N/A
3	1-3	Black Tar Paper from Water Heater (Water Heater Inside Shed)	ND	10 ft. <sup>2</sup>	N/A
4	1-3	Silver Tape & Adhesive from Water Heater (Water Heater Inside Shed)	ND	5 ft. <sup>2</sup>	N/A
5	1-3	Wall Insulation w/ Paper Backing & Black Coating (Unit C Interior)	ND	400 ft. <sup>2</sup>	N/A
6	1-3	Textured Ceiling Drywall w/ Attached Insulation (Unit C)	ND	400 ft. <sup>2</sup>	N/A
7	1-3	Smooth Drywall (Unit C Interior Walls)	ND	400 ft. <sup>2</sup>	N/A
8	1-3	Painted Wallboard (Unit C Exterior Walls)	ND	400 ft. <sup>2</sup>	N/A
9	1-3	Lower Wall Siding (Unit C & D Exterior Walls)	ND	500 ft. <sup>2</sup>	N/A
10	1-3	Upper Wall Siding (Unit C & D Exterior Walls)	ND	500 ft. <sup>2</sup>	N/A
11	1-3	Pink Wall Insulation (Unit D Interior)	ND	400 ft. <sup>2</sup>	N/A
12	1-3	Vinyl Floor Tile & Mastic (Unit D Bathroom)	ND	50 ft. <sup>2</sup>	N/A
13	1-3	Lt Brown Painted Drywall (Unit D Interior Walls)	ND	400 ft. <sup>2</sup>	N/A
14	1-3	Rough Textured Ceiling Drywall (Unit D Kitchen & Living Room)	ND	400 ft. <sup>2</sup>	N/A
15	1-3	Swirl Textured Ceiling Drywall (Unit D Bedroom & Bathroom)	ND	200 ft. <sup>2</sup>	N/A
16	1-3	White Bonding on Drywall (Unit C & D Interior Walls)	ND	300 ft. <sup>2</sup>	N/A
17	1-3	Siding Patch Glue (Unit D)	ND	10 ft. <sup>2</sup>	N/A
18	1-3	White Countertop Caulk (Unit C & D Kitchen & Bathroom)	ND	100 ft. <sup>2</sup>	N/A

**SUMMARY OF RESULTS**  
**3136-3146 US 1**

HSA	Sample Number	Material Type & Location	PLM Analysis	*Estimated Quantity	EPA Cat.
19	1-7	Lt Gray Plaster w/ Paint (Around Bldg. Exterior)	ND	10,000 ft. <sup>2</sup>	N/A
20	1-7	Dk Gray Plaster w/ Paint (Around Bldg. Exterior)	ND	10,000 ft. <sup>2</sup>	N/A
21	1-3	Wallboard Painted Walls (Around Bldg. Exterior)	ND	5,000 ft. <sup>2</sup>	N/A
22	1-3	Window Seal Caulk (Rear Windows)	ND	200 ft. <sup>2</sup>	N/A
23	1-3	Dk Gray Crack Filler (Exterior Siding)	ND	500 ft. <sup>2</sup>	N/A
24	1-3	Red Brick w/ Brown Paint (Bldg. Exterior)	ND	5,000 ft. <sup>2</sup>	N/A
25	1-3	Lower Siding on Bldg. (Bldg. Exterior)	ND	5,000 ft. <sup>2</sup>	N/A
26	1-3	Stucco Patch (Exterior Southside of Bldg.)	ND	500 ft. <sup>2</sup>	N/A
27	1-3	Shingle Roof (North Roof Pitch)	ND	1,000 ft. <sup>2</sup>	N/A
28	1-3	Gravel Roof (Btwn Metal Roof Pitch)	ND	1,000 ft. <sup>2</sup>	N/A
29	1-3	Asphalt Roof Patch & <b>Silver Coating</b> Over Tar/Gravel Roof (Btwn Metal Roof Pitch)	2% Chr	200 ft. <sup>2</sup>	NF-II
30	1-3	Black Tar & <b>Silver Coating</b> Over Seams, Roof Corners and Patches (Btwn Metal Roof Pitch)	2% Chr	500 ft. <sup>2</sup>	NF-II
31	1-3	Roof Seam Black Tar and Foam (Under Metal Roof Pitch)	ND	1,000 ft. <sup>2</sup>	N/A
32	1-3	Roof Seam Gray Material (Under Metal Roof Pitch)	ND	50 ft. <sup>2</sup>	N/A
33	1-3	<b>Black Roof Flashing &amp; Silver Coating (Roof Stacks)</b>	2% & 5% Chr	200 ft. <sup>2</sup>	NF-II
34	1-3	White/Gray Flashing (Roof Stacks)	ND	50 ft. <sup>2</sup>	N/A
35	1-3	White Flashing (Under Metal Roof at Seams)	ND	2,000 ft. <sup>2</sup>	N/A
36	1-3	<b>Black Tar &amp; Silver Coating (Parapet Front of Bldg.)</b>	2% & 5% Chr	500 ft. <sup>2</sup>	NF-II
37	1-3	<b>Black Flashing &amp; Silver Coating (South Roof Seams at Metal and Gravel Roof)</b>	2% & 5% Chr	1,000 ft. <sup>2</sup>	NF-II
38	1-5	Drywall & <b>White Surfacing Material w/ Paint (Bldg. Interior)</b>	2% Chr	5,000 ft. <sup>2</sup>	NF-II**
39	1-3	Two Layers of Flooring w/ Leveling Compound & Mastic (Center Bathroom)	ND	50 ft. <sup>2</sup>	N/A
40	1-3	2' x 4' Ceiling Tiles w/ Pinholes/Fissures (Bldg. Interior)	ND	700 ft. <sup>2</sup>	N/A
41	1-3	Drywall & <b>White Textured Material w/ Paint (Main Room Walls &amp; Ceiling)</b>	2% Chr	1,000 ft. <sup>2</sup>	NF-II**



42	1-3	<b>Brown Vinyl Floor Tile &amp; Black Mastic (South Bathroom)</b>	<b>2% &amp; 5% Chr</b>	<b>50 ft.<sup>2</sup></b>	<b>NF-I</b>
43	1-3	Green Vinyl Floor Tile & Mastic (Attached Back Room Bathroom)	ND	50 ft. <sup>2</sup>	N/A
44	1-3	Brown Peel N Stick Flooring & Adhesive (Attached Back Room Living Room and Kitchen)	ND	200 ft. <sup>2</sup>	N/A
45	1-5	Gray Plaster (Bldg. Interior)	ND	5,000 ft. <sup>2</sup>	N/A
46	1-3	Black Vinyl Baseboards & Adhesive (Bldg. Interior)	ND	500 ft. <sup>2</sup>	N/A
47	1-3	HVAC Duct/Insulation (Attached Back Room w/ AC)	ND	100 ft. <sup>2</sup>	N/A
48	1-3	Silver Tape & Adhesive (Office Area)	ND	500 ft. <sup>2</sup>	N/A
49	1-3	Two Layers of Vinyl Floor Tile w/ Leveling Compound & Mastic (Office Area)	ND	100 ft. <sup>2</sup>	N/A
50	1-3	Office Foam Insulation w/ Silver Backing (Office Area)	ND	100 ft. <sup>2</sup>	N/A
51	1-3	<b>Black Mastic &amp; Drywall (Behind Office Wood Paneling)</b>	<b>2% Chr</b>	<b>200 ft.<sup>2</sup></b>	<b>NF-I</b>
52	1-3	Gray Vinyl Floor Tile w/ Leveling Compound & Mastic (Office Area)	ND	100 ft. <sup>2</sup>	N/A
53	1-3	Wallpaper (Attached Back Room)	ND	200 ft. <sup>2</sup>	N/A
54	1-3	White Wallboard (Interior Front Central Portion of Bldg.)	ND	500 ft. <sup>2</sup>	N/A
55	1-3	White Caulk (Interior Front Central Portion of Bldg.)	ND	500 ft. <sup>2</sup>	N/A
56	1-3	Wallboard (At Workshop Back Central Portion of Bldg.)	ND	500 ft. <sup>2</sup>	N/A

(\*): 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.

(\*\*): This material will most likely become Friable during demolition, and therefore must be treated as friable material.

**TABLE LEGEND:**

<b>HSA:</b>	Homogenous Sampling Area	<b>QUANTITY ESTIMATE:</b>	Estimated Quantity of HSA
<b>PLM ANALYSIS:</b>	Chr. = Chrysotile Asbestos	<b>EPA CATEGORY:</b>	F = Friable
	Chr. = Chrysotile Asbestos		NF-I = Category I Non-Friable
	Crc. = Crocidolite Asbestos		NF-II = Category II Non-Friable
	ND = No Asbestos Detected		N/A = Not Applicable

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 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. The Occupational Safety and Health Administration (OSHA) Asbestos Standard for

Construction Industry 29 CFR 1926.1101 regulates workplace exposure to asbestos. OSHA does not define Asbestos Containing Material on asbestos content. The OSHA standard requires that employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeter of air (0.1 f/cc). 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 means and methods necessary for ACM abatement are the sole responsibility of the abatement contractor.

A complete list of suspected ACM samples obtained is also shown in the laboratory report (included in **Appendix B**).

## 2.0 INTRODUCTION

### 2.1 DESCRIPTION OF SURVEY AREA

The survey areas consisted of all retail & residential structures located at 1375 & 1385 32nd St and 3136 & 3146 US Highway 1 in Vero Beach, Florida. In addition, NOVA sampled several unpermitted structures that were not included within the Indian River County, FL Property Appraiser office information provided for the subject site. Therefore, the number of samples collected exceeded the number of samples proposed in NOVA Proposal Number: 10101-3023019, dated June 23, 2023.

### 2.2 PURPOSE

As requested by the Client, the Pre-Demolition Asbestos Containing Materials (ACM) Survey was performed in an effort to identify ACM. This work has been performed in general accordance with NOVA Proposal Number: 10101-3023019, dated June 23, 2023, and applicable state and federal regulations, and routine industry practice.

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.

### 2.3 LIMITATIONS

NOVA has performed the Pre-Demolition Asbestos Containing Materials Survey, which is a limited inquiry into a property's environmental status, with respect to asbestos containing materials, and is not sufficient to discover every potential source of ACMs at the property to be evaluated. No survey can wholly eliminate uncertainty regarding the potential ACMs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for ACMs in connection with a property. The level of inquiry is variable. Not every property will warrant the same level of assessment for ACMs. Consistent with good commercial or customary practices, the appropriate level of assessment is guided by the type of property subject to assessment, the intended use of the property, the expertise and risk tolerance of the Client, and the information developed over the course of the assessment.

NOVA's findings, opinions, conclusions and recommendations are based on information obtained through visual assessment of surficial conditions in readily accessible areas. It is possible that additional ACMs exist or may subsequently become known that may impact or change the assessment after NOVA's services are complete.

NOVA’s assessment represents our professional opinion, only. Therefore, NOVA cannot, under any circumstances, make a statement of warranty or guarantee, expressed or implied, that ACMs are limited to those that are discovered while we were performing the survey.

## 2.4 USER RELIANCE

NOVA’s Pre-Demolition Asbestos Containing Materials Survey, along with the findings and conclusions contained in the report, either in completed form, summary form, or by extraction, is prepared, and intended, for the sole use of **Indian River County Public Works Department** (the Client) and therefore may not contain sufficient information for other purposes or parties. The Client is the only intended beneficiary of this report. The contents of NOVA’s report will continue to be the property of NOVA. NOVA’s report may not be disclosed to, used by, or relied upon by, any person or entity other than the Client without the express written consent of NOVA.

Authorization for disclosure to a third party or authorization for third-party reliance on a final report of any report will be considered by NOVA upon the written request of the Client. NOVA reserves the right to deny authorization to allow disclosure or reliance of NOVA’s report to third parties.

## 3.0 ASBESTOS CONTAINING MATERIALS

### 3.1 FIELD AND LABORATORY SERVICES

Mr. Bruce McKinnes a NOVA professional and federal certified asbestos inspector (See **Appendix D** for certification) performed the field work for the Pre-Demolition Asbestos Containing Materials Survey at the Subject Site on July 12<sup>th</sup>, 14<sup>th</sup>, and 17<sup>th</sup> of 2023.

#### 3.1.1 ASBESTOS CONTAINING MATERIALS SAMPLING

The building areas were visually assessed by NOVA to identify suspect ACMs, which were then grouped into three categories according to their intended use:

- **Surfacing Materials** such as sprayed-on or troweled fireproofing, acoustical and decorative insulation, textured “popcorn” finishes, paint, stucco, etc.
- **Thermal System Insulation (TSI)**, such as pipe, boiler and storage tank insulation, and insulation on ducts, pumps, heat exchangers, and other equipment.

- **Miscellaneous Materials**, such as floor and ceiling tiles, wallboard, asbestos-cement board, siding and other building materials that did not fall into one of the previously mentioned categories.

Where applicable, materials with similar texture, color and general appearance were considered homogeneous for sampling purposes, including visually similar materials on different floors. NOVA's assessment also included touching representative samples to determine friability, a mechanical classification defined as whether a material can be crumbled, pulverized, or reduced to powder by hand pressure.

Bulk samples were subsequently obtained in general accordance with the AHERA (40 CFR 763.86, Sampling) and ASTM E2356-18 procedures. 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 ACM samples were analyzed for asbestos using Polarized Light Microscopy (PLM) methods in accordance with EPA Method 600/R-93/116. Copies of the complete asbestos laboratory report and chain-of custody are included in **Appendix B**.

Using the results of the laboratory analysis and NOVA's visual assessment, the asbestos containing building materials can be further categorized into three groups:

- **Friable ACM** – Any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix C, Subpart F, 40 CFR part 763 Section 1, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.
- **Category I Nonfriable ACM** - Asbestos-containing packing, gaskets, resilient floor covering, and asphalt roofing products containing more than one percent (1%) asbestos as determined using the method specified in Appendix C, Subpart F, 40 CFR part 763, Section 1, Polarized Light Microscopy.
- **Category II Nonfriable ACM** - Any material, excluding Category I Nonfriable ACM, containing more than one percent (1%) asbestos as determined using the methods specified in Appendix C, Subpart F, 40 CFR part 763, Section 1, Polarized Light Microscopy that, when dry, *cannot* be crumbled, pulverized, or reduced to powder by hand pressure.

A complete list of suspected ACM samples obtained is shown in the laboratory report (included in **Appendix B**).

## 3.2 ASBESTOS

During this study, three hundred and seventy-five (375) samples of building materials were collected by NOVA from the survey areas, resulting in eight hundred and thirty-two (832) analyses due to sample layering. The samples were subsequently transported (following routine industry practices and chain-of-custody procedures) to Arrowhead Technologies, LLC (Arrowhead), and analyzed using Polarized Light Microscopy (PLM), with **twenty-one (21)** of the analyzed samples indicating asbestos content.

- 1375 32nd St - White Sink Coating (Unit B): HSA 12.
- 1375 32nd St - Gray Vinyl Floor Tile & Black Mastic (Unit A Living Room Floor): HSA 21.
- 1375 32nd St - Gray Vinyl Floor Tile & Black Mastic (Unit A Bathroom & Bedroom Doorways): HSA 22.
- 1375 32nd St - Green Vinyl Floor Tile & Black Mastic (Unit B Living Room & Bedroom): HSA 28.
- 1385 32nd St., Apts A & B – Black Tar (Center Roof Btwn. Pitches): HSA 3.
- 1385 32nd St., Apts A & B - Black Tar (Roof Seams Under Eaves): HSA 4.
- 1385 32nd St., Apts A & B - Black Tar & Silver Coating Material (Unit A Front Eaves): HSA 5.
- 1385 32nd St., Apts A & B - Black Tar & Silver Coating Material (Unit A & B Roof Overhang & Stacks): HSA 7.
- 1385 32nd St., Apts A & B - White Textured Material w/ Paint (Unit A Bedroom): HSA 14.
- 1385 32nd St., Apts A & B - White Surfacing Material w/ Paint (Unit A Kitchen, Living Room & Bathroom): HSA 19.
- 1385 32nd St., Apts A & B - White Textured Material w/ Paint (Unit B Bedroom): HSA 21.
- 1385 32nd St., Apts A & B - Rough Textured Wallboard Ceiling (Unit B Bedroom): HSA 22.

- 3136-3146 US 1 - Silver Coating Material (Btwn Metal Roof Pitch): HSA 29.
- 3136-3146 US 1 - Silver Coating Material (Btwn Metal Roof Pitch): HSA 30.
- 3136-3146 US 1 - Black Roof Flashing & Silver Coating Material (Roof Stacks): HSA 33.
- 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.
- 3136-3146 US 1 - Brown Vinyl Floor Tile & Black Mastic (South Bathroom): HSA 42.
- 3136-3146 US 1 - Black Mastic (Behind Office Wood Paneling): HSA 51.

### 3.3 ASBESTOS ABATEMENT

All identified non-friable ACMs, that are likely to become friable during demolition activities must be properly abated by a Florida Licensed Asbestos Contractor prior to demolition activities in those areas. According the USEPA NESHAP regulations, 40 CFR 61, Subpart M, the identified non-friable ACMs, that will most likely not become friable during demolition activities, may remain in place using a wet demolition process and disposed of in a landfill that will accept unregulated asbestos waste, or may be removed prior to demolition by a Florida licensed Asbestos Contractor.

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.

The Occupational Safety and Health Administration (OSHA) Asbestos Standard for 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 means, 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 suspect materials not identified** in this inspection should be treated as ACMs and should be handled in accordance with the applicable OSHA, USEPA and FDEP requirements until testing can prove otherwise.

Please be advised that a copy of this report must be on site during demolition of the buildings, in the event of a regulatory inspection.



# **APPENDIX A**

## Location Map



FIGURE 1  
LOCATION MAP



RETAIL & RESIDENTIAL STRUCTURES  
1375 & 1385 32ND ST AND 3136 &  
3146 US HIGHWAY 1  
VERO BEACH, FL 32960  
NOVA Project No. 10101-3023019

**APPENDIX B**  
Photo Log of ACMs



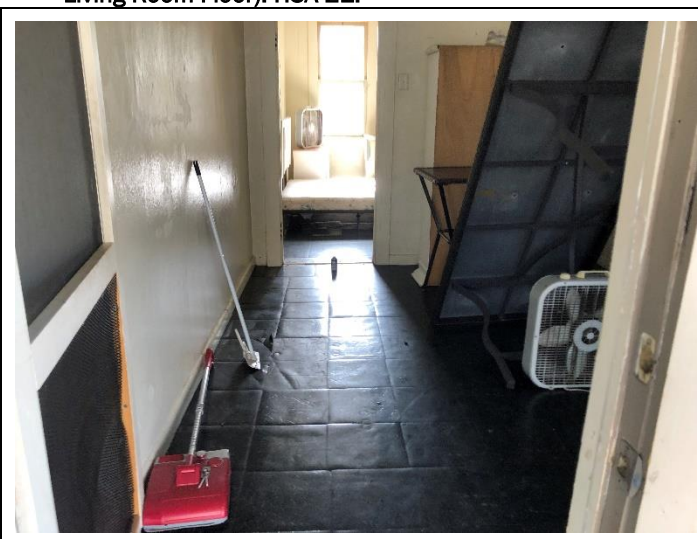
1. 1375 32nd St - White Sink Coating (Unit B): HSA 12.



2. 1375 32nd St - Gray Vinyl Floor Tile & Black Mastic (Unit A Living Room Floor): HSA 21.



3. 1375 32nd St - Gray Vinyl Floor Tile & Black Mastic (Unit A Bathroom & Bedroom Doorways): HSA 22.



4. 1375 32nd St - Green Vinyl Floor Tile & Black Mastic (Unit B Living Room & Bedroom): HSA 28.



5. 1385 32nd St., Apts A & B - Black Tar (Center Roof Btwn. Pitches): HSA 3.



6. 1385 32nd St., Apts A & B - Black Tar (Roof Seams Under Eaves): HSA 4.



7. 1385 32nd St., Apts A & B - Black Tar & Silver Coating Material (Unit A Front Eaves): HSA 5.



8. 1385 32nd St., Apts A & B - Black Tar & Silver Coating Material (Unit A & B Roof Overhang & Stacks): HSA 7.



9. 1385 32nd St., Apts A & B - White Textured Material w/ Paint (Unit A Bedroom): HSA 14.



10. 1385 32nd St., Apts A & B - White Surfacing Material w/ Paint (Unit A Kitchen, Living Room & Bathroom): HSA 19.



11. 1385 32nd St., Apts A & B - White Textured Material w/ Paint (Unit B Bedroom): HSA 21.



12. 1385 32nd St., Apts A & B - Rough Textured Wallboard Ceiling (Unit B Bedroom): HSA 22.



13. 3136-3146 US 1 - Silver Coating Material (Btwn Metal Roof Pitch): HSA 29.



14. 3136-3146 US 1 - Silver Coating Material (Btwn Metal Roof Pitch): HSA 30.



15. 3136-3146 US 1 - Black Roof Flashing & Silver Coating Material (Roof Stacks): HSA 33.



16. 3136-3146 US 1 - Black Tar & Silver Coating Material (Parapet Front of Bldg.): HSA 36.



17. 3136-3146 US 1 - Black Flashing & Silver Coating Material (South Roof Seams at Metal and Gravel Roof): HSA 37.



18. 3136-3146 US 1 - White Surfacing Material w/ Paint (Bldg. Interior): HSA 38.



19. 3136-3146 US 1 - White Textured Material w/ Paint (Main Room Walls & Ceiling): HSA 41.



20. 3136-3146 US 1 - Brown Vinyl Floor Tile & Black Mastic (South Bathroom): HSA 42.



21. 3136-3146 US 1 - Black Mastic (Behind Office Wood Paneling): HSA 51.

**APPENDIX C**  
Laboratory Data





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

NVLAP Lab Code 200703-0

Client :	Nova	Lab Set No. :	011974
Project :	1375 32nd St	AT Job No. :	23-11974
Client Project No.:	10101-3023019	Report Date :	7/17/2023
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/12/2023
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 1 of 15

On 7/12/2023, ninety-five (95) bulk material samples were submitted by Bruce McKinnis 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
011974-001	Stucco/Plaster w/ Texture HA1-1	None Detected-Gray Texture w/ Paint None Detected-Gray Stucco/Plaster
011974-002	Stucco/Plaster w/ Texture HA1-2	None Detected-Gray Texture w/ Paint None Detected-Gray Stucco/Plaster
011974-003	Stucco/Plaster w/ Texture HA1-3	None Detected-Gray Texture w/ Paint None Detected-Gray Stucco/Plaster
011974-004	Stucco/Plaster w/ Texture HA1-4	None Detected-Gray Texture w/ Paint None Detected-Gray Stucco/Plaster
011974-005	Stucco/Plaster w/ Texture HA1-5	None Detected-Gray Texture w/ Paint None Detected-Gray Stucco/Plaster
011974-006	Decorative Brick HA2-1	None Detected-Gray Material w/ Paint None Detected-Red Material w/ Paint
011974-007	Decorative Brick HA2-2	None Detected-Gray Material w/ Paint None Detected-Red Material w/ Paint
011974-008	Decorative Brick HA2-3	None Detected-Gray Material w/ Paint None Detected-Red Material w/ Paint

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Lab Sample No.	Sample Description / Location	Asbestos Content
011974-009	Silver Paper HA3-1	None Detected-Silver Foil None Detected-Yellow Adhesive None Detected-White Glass Insulation
011974-010	Silver Paper HA3-2	None Detected-Silver Foil None Detected-Yellow Adhesive None Detected-White Glass Insulation
011974-011	Silver Paper HA3-3	None Detected-Silver Foil None Detected-Yellow Adhesive None Detected-White Glass Insulation
011974-012	Brick HA4-1	None Detected-White Surfacing w/ Paint None Detected-Tan Brick
011974-013	Brick HA4-2	None Detected-White Surfacing w/ Paint None Detected-Tan Brick
011974-014	Brick HA4-3	None Detected-White Surfacing w/ Paint None Detected-Tan Brick
011974-015	Textured Wallboard HA5-1	None Detected-Gray Paint None Detected-Gray Cement Board

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Page 3 of 15

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Lab Sample No.	Sample Description / Location	Asbestos Content
011974-016	Textured Wallboard HA5-2	None Detected-Gray Paint None Detected-Gray Cement Board
011974-017	Textured Wallboard HA5-3	None Detected-Gray Paint None Detected-Gray Cement Board
011974-018	Asphalt Rolled Roof HA6-1	None Detected-Black Roof Membrane None Detected-Black Roofing Felt
011974-019	Asphalt Rolled Roof HA6-2	None Detected-Black Roof Membrane None Detected-Black Roofing Felt
011974-020	Asphalt Rolled Roof HA6-3	None Detected-Black Roof Membrane None Detected-Black Roofing Felt
011974-021	Black Flashing HA7-1	None Detected-Black Flashing
011974-022	Black Flashing HA7-2	None Detected-Black Flashing
011974-023	Black Flashing HA7-3	None Detected-Black Flashing
011974-024	Masking Tape HA8-1	None Detected-Gray Tape
011974-025	Masking Tape HA8-2	None Detected-Gray Tape

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Lab Sample No.	Sample Description / Location	Asbestos Content
011974-026	Masking Tape HA8-3	None Detected-Gray Tape
011974-027	Shingle Roof HA9-1	None Detected-Black Roofing Shingle None Detected-Black Roofing Felt None Detected-Tan Paper
011974-028	Shingle Roof HA9-2	None Detected-Black Roofing Shingle None Detected-Black Roofing Felt None Detected-Tan Paper
011974-029	Shingle Roof HA9-3	None Detected-Black Roofing Shingle None Detected-Black Roofing Felt None Detected-Tan Paper
011974-030	Asphalt HA10-1	None Detected-Black Asphalt
011974-031	Asphalt HA10-2	None Detected-Black Asphalt
011974-032	Asphalt HA10-3	None Detected-Black Asphalt
011974-033	Concrete Pads HA11-1	None Detected-Gray Concrete
011974-034	Concrete Pads HA11-2	None Detected-Gray Concrete

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Lab Sample No.	Sample Description / Location	Asbestos Content
011974-035	Concrete Pads HA11-3	None Detected-Gray Concrete
011974-036	White Sink Coating HA12-1	2% Chrysotile-White Sink Mastic
011974-037	White Sink Coating HA12-2	Not Analyzed
011974-038	White Sink Coating HA12-3	Not Analyzed
011974-039	Drywall/Tape/Mud HA13-1	None Detected-White Plaster w/ Paint None Detected-Gray Plaster None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011974-040	Drywall/Tape/Mud HA13-2	None Detected-White Plaster w/ Paint None Detected-Gray Plaster None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011974-041	Drywall/Tape/Mud HA13-3	None Detected-White Plaster w/ Paint None Detected-Gray Plaster None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011974-042	Plaster Walls HA14-1	None Detected-Gray Plaster

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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On 7/12/2023, ninety-five (95) bulk material samples were submitted by Bruce McKinnis 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
011974-043	Plaster Walls HA14-2	None Detected-Gray Plaster
011974-044	Plaster Walls HA14-3	None Detected-Gray Plaster
011974-045	Textured Wallboard HA15-1	None Detected-White Texture w/ Paint None Detected-White Plaster None Detected-Gray Plaster
011974-046	Textured Wallboard HA15-2	None Detected-White Texture w/ Paint None Detected-White Plaster None Detected-Gray Plaster
011974-047	Textured Wallboard HA15-3	None Detected-White Texture w/ Paint None Detected-White Plaster None Detected-Gray Plaster
011974-048	Black Tar Roof Repair HA16-1	None Detected-Black Tar
011974-049	Black Tar Roof Repair HA16-2	None Detected-Black Tar
011974-050	Black Tar Roof Repair HA16-3	None Detected-Black Tar
011974-051	Concrete w/ Mortar HA17-1	None Detected-Gray Concrete w/ Paint None Detected-White Mortar

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Lab Sample No.	Sample Description / Location	Asbestos Content
011974-052	Concrete w/ Mortar HA17-2	None Detected-Gray Concrete w/ Paint None Detected-White Mortar
011974-053	Concrete w/ Mortar HA17-3	None Detected-Gray Concrete w/ Paint None Detected-White Mortar
011974-054	Gray Linoleum Type Floor HA18-1	None Detected-Gray Vinyl Flooring None Detected-Yellow Adhesive None Detected-Tan Linoleum Surface None Detected-White Backing
011974-055	Gray Linoleum Type Floor HA18-2	None Detected-Gray Vinyl Flooring None Detected-Yellow Adhesive None Detected-Tan Linoleum Surface None Detected-White Backing
011974-056	Gray Linoleum Type Floor HA18-3	None Detected-Gray Vinyl Flooring None Detected-Yellow Adhesive None Detected-Tan Linoleum Surface None Detected-White Backing
011974-057	Light Strip w/ Glue HA19-1	None Detected-Yellow/White Light Strip None Detected-Clear Adhesive

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Page 8 of 15

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Lab Sample No.	Sample Description / Location	Asbestos Content
011974-058	Light Strip w/ Glue HA19-2	None Detected-Yellow/White Light Strip None Detected-Clear Adhesive
011974-059	Light Strip w/ Glue HA19-3	None Detected-Yellow/White Light Strip None Detected-Clear Adhesive
011974-060	White Caulk HA20-1	None Detected-White Caulking
011974-061	White Caulk HA20-2	None Detected-White Caulking
011974-062	White Caulk HA20-3	None Detected-White Caulking
011974-063	VFTs w/ Yellow/Black Mastic HA21-1	None Detected-Gray/Blue Floor Tile None Detected-Yellow Mastic 2% Chrysotile-Gray Floor Tile 5% Chrysotile-Black Mastic
011974-064	VFTs w/ Yellow/Black Mastic HA21-2	None Detected-Gray/Blue Floor Tile None Detected-Yellow Mastic 2% Chrysotile-Gray Floor Tile 5% Chrysotile-Black Mastic

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.





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Lab Sample No.	Sample Description / Location	Asbestos Content
011974-065	VFTs w/ Yellow/Black Mastic HA21-3	None Detected-Gray/Blue Floor Tile None Detected-Yellow Mastic 2% Chrysotile-Gray Floor Tile 5% Chrysotile-Black Mastic
011974-066	VFTs w/ Mastic HA22-1	None Detected-Brown Floor Tile None Detected-Yellow Mastic 2% Chrysotile-Gray Floor Tile 5% Chrysotile-Black Mastic
011974-067	VFTs w/ Mastic HA22-2	None Detected-Brown Floor Tile None Detected-Yellow Mastic 2% Chrysotile-Gray Floor Tile 5% Chrysotile-Black Mastic
011974-068	VFTs w/ Mastic HA22-3	None Detected-Brown Floor Tile None Detected-Yellow Mastic 2% Chrysotile-Gray Floor Tile 5% Chrysotile-Black Mastic
011974-069	Floor Tile/Mortar HA23-1	None Detected-Yellow Ceramic Tile None Detected-Gray Tile Mortar

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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

NVLAP Lab Code 200703-0

Client :	Nova	Lab Set No. :	011974
Project :	1375 32nd St	AT Job No. :	23-11974
Client Project No.:	10101-3023019	Report Date :	7/17/2023
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/12/2023
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		

On 7/12/2023, ninety-five (95) 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
011974-070	Floor Tile/Mortar HA23-2	None Detected-Yellow Ceramic Tile None Detected-Gray Tile Mortar
011974-071	Floor Tile/Mortar HA23-3	None Detected-Yellow Ceramic Tile None Detected-Gray Tile Mortar
011974-072	Layered Flooring HA24-1	None Detected-Brown Vinyl Flooring None Detected-Clear Adhesive None Detected-WhiteBrown Laminate Floor
011974-073	Layered Flooring HA24-2	None Detected-Brown Vinyl Flooring None Detected-Clear Adhesive None Detected-WhiteBrown Laminate Floor
011974-074	Layered Flooring HA24-3	None Detected-Brown Vinyl Flooring None Detected-Clear Adhesive None Detected-WhiteBrown Laminate Floor
011974-075	Layered Flooring HA25-1	None Detected-Brown Linoleum Surface None Detected-Gray Backing None Detected-Gray Floor Tile None Detected-Yellow Mastic

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Client Project No.:	10101-3023019	Report Date :	7/17/2023
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	App E to Sub E of 40 CFR Part 763 and EPA Method 600/R-93/116		

On 7/12/2023, ninety-five (95) 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
011974-076	Layered Flooring HA25-2	None Detected-Brown Linoleum Surface None Detected-Gray Backing None Detected-Gray Floor Tile None Detected-Yellow Mastic
011974-077	Layered Flooring HA25-3	None Detected-Brown Linoleum Surface None Detected-Gray Backing None Detected-Gray Floor Tile None Detected-Yellow Mastic
011974-078	Layered Flooring HA26-1	None Detected-Beige Linoleum Surface None Detected-White Backing None Detected-Brown Fiberboard
011974-079	Layered Flooring HA26-2	None Detected-Beige Linoleum Surface None Detected-White Backing None Detected-Brown Fiberboard
011974-080	Layered Flooring HA26-3	None Detected-Beige Linoleum Surface None Detected-White Backing None Detected-Brown Fiberboard

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Client Project No.:	10101-3023019	Report Date :	7/17/2023
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/12/2023
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		

On 7/12/2023, ninety-five (95) 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
011974-081	Linoleum Flooring Layered HA27-1	None Detected-Tan Linoleum Surface None Detected-White Backing None Detected-Brown Fiberboard
011974-082	Linoleum Flooring Layered HA27-2	None Detected-Tan Linoleum Surface None Detected-White Backing None Detected-Brown Fiberboard
011974-083	Linoleum Flooring Layered HA27-3	None Detected-Tan Linoleum Surface None Detected-White Backing None Detected-Brown Fiberboard
011974-084	Layered Flooring HA28-1	None Detected-Gray Vinyl Flooring None Detected-Yellow Adhesive None Detected-Brown Laminate Flooring 2% Chrysotile-Green Floor Tile 5% Chrysotile-Black Mastic
011974-085	Layered Flooring HA28-2	None Detected-Gray Vinyl Flooring None Detected-Yellow Adhesive None Detected-Brown Laminate Flooring 2% Chrysotile-Green Floor Tile 5% Chrysotile-Black Mastic

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Project :	1375 32nd St	AT Job No. :	23-11974
Client Project No.:	10101-3023019	Report Date :	7/17/2023
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/12/2023
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Lab Sample No.	Sample Description / Location	Asbestos Content
011974-086	Layered Flooring HA28-3	None Detected-Gray Vinyl Flooring None Detected-Yellow Adhesive None Detected-Brown Laminate Flooring 2% Chrysotile-Green Floor Tile 5% Chrysotile-Black Mastic
011974-087	Window Flashing HA29-1	None Detected-White/Gray Flashing
011974-088	Window Flashing HA29-2	None Detected-White/Gray Flashing
011974-089	Window Flashing HA29-3	None Detected-White/Gray Flashing
011974-090	Window Caulk HA30-1	None Detected-White Caulk
011974-091	Window Caulk HA30-2	None Detected-White Caulk
011974-092	Window Caulk HA30-3	None Detected-White Caulk
011974-093	Layered Flooring HA31-1	None Detected-Black Vinyl Flooring None Detected-Clear Adhesive None Detected-Gray Vinyl Surface None Detected-Off White Backing None Detected-Tan Linoleum Surface None Detected-Gray Backing

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Client Project No.:	10101-3023019	Report Date :	7/17/2023
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/12/2023
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		

On 7/12/2023, ninety-five (95) bulk material samples were submitted by Bruce McKinnis 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
011974-094	Layered Flooring HA31-2	None Detected-Black Vinyl Flooring None Detected-Clear Adhesive None Detected-Gray Vinyl Surface None Detected-Off White Backing None Detected-Tan Linoleum Surface None Detected-Gray Backing
011974-095	Layered Flooring HA31-3	None Detected-Black Vinyl Flooring None Detected-Clear Adhesive None Detected-Gray Vinyl Surface None Detected-Off White Backing None Detected-Tan Linoleum Surface None Detected-Gray Backing

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Client Project No.:	10101-3023019	Report Date :	7/17/2023
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/12/2023
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		

**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

Approved Signatory :

11974

Company NOVA ENGINEERING & ENVIRONMENTAL

Address 4524 Oak Fair Boulevard, Suite 200

City / State / Zip Tampa, FL 33610

Phone 813-623-3100 FAX 813-623-3545 Email \_\_\_\_\_

Client / Owner: Zadway Rev. Co. Public works

Project and/or Job Number: 10101-3023019

Project Address: 1375-32nd ST. Vero Beach

# Asbestos Chain of Custody Record

Normal 3 Day  Next Day  Same Day  Immediate

Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)

Date: 7-12-23 Contact: B. McKinnis

Phone: 813-267-6044 FAX: \_\_\_\_\_

Email: LABREPORTSENV@USANOVA.COM

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
1	1-5	Stucco type / Plaster	NW corner	outside walls	2,000	D	H	N
1	↓	Type-Painted w/ texture	NE corner	↓	↓	↓	↓	↓
			SW corner					
			SE corner					
2	1-3	Decorative brick	N. side of BLDG	outside walls	500	D	H	N
3	1-3	Painted brown	AT Awning backing	ceiling lights	25	↓	M	↓
4	1-3	Silv. Paper (ceiling)	West side of structure	A, B, C Inside	100	↓	H	↓
5	1-3	Brick from old fire place	West side of structure	outside	100	↓	↓	↓
6	1-3	Textured Painted wall board	N. side of over windows	outside	100	↓	↓	↓
7	1-3	Asphalt Rolled Roofing over wood Bl. Flashing on Roof	Stacks	West overhang Roof	300	↓	M	↓
				Main Roof	100	↓	L	↓

G=Good, D=Damaged, SD=Significantly Damaged

Sampled By: B. McKinnis Date: 7-12-23  
 Transported By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Special Instructions: BC-1

Received By / Date: Paper Seligman 7/12/2023



11974

Company NOVA ENGINEERING & ENVIRONMENTAL

Address 4524 Oak Fair Boulevard, Suite 200

City / State / Zip Tampa, FL 33610

Phone 813-623-3100 FAX 813-623-3545 Email \_\_\_\_\_

Client / Owner: Indian River Co. Public works

Project and/or Job Number: 10101-3023019

Project Address: 1375 - 32nd St. Vero Beach FL

# Asbestos Chain of Custody Record

Normal 3 Day  Next Day  Same Day  Immediate

Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)

Date: 7-12-23 Contact: B. McKeunes

Phone: 813-267-6044 FAX: \_\_\_\_\_

Email: LABREPORTSENV@USANOVA.COM

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pos. Disturb.	Friable Yes/No
8	1-3	Masking tape	Roof	Tv Antenna	10	D	L	N
9	1-3	Shingle Roof	Main Roof	Roof over wood w/pitch	1,000			
10	1-3	Asphalt	Around Structure	East & west outside	1,000		B	
11	1-3	Concrete Pads	North side west side	outside	500			
12	1-3	Sink under coating white	only APT	APTS/structure B has sink w/ coating	75			
13	1-3	Drf wall (Tape/ mud)	unit A unit B unit C	In side	1,000		M	
14	1-3	Plaster walls w/ wood behind wall board	unit A unit B unit C	↓ Face behind walls	↓		H	N
15	1-3	Textured wall board		APT A. ceiling & walls	500			

C=Good, D=Damaged, SD=Significantly Damaged

Sampled By: B. McKeunes Date: 7-12-23  
 Transported By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Special Instructions: BC-2

Received By / Date: Ryan Schyman 7/12/2023

11974

# Asbestos Chain of Custody Record

Normal 3 Day  Next Day  Same Day  Immediate   
 Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)  
 Date: 7-12-23 Contact: B.M.H. B.M.H.  
 Phone: 813-267-6044 FAX: LABREPORTSENV@USANOVA.COM  
 Email: LABREPORTSENV@USANOVA.COM

Company NOVA ENGINEERING & ENVIRONMENTAL

Address 4524 Oak Fair Boulevard, Suite 200

City / State / Zip Tampa, FL 33610

Phone 813-623-3100 FAX 813-623-3545 Email

Client / Owner: Indian River Co. Public Works

Project and/or Job Number: 10601-3073019

Project Address: 1375 - 3rd St. Vero Beach FL

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
16	1-3	Bl. Tar Roof Repair	✓	over kitchen APT-A	25	D	L	N
17	1-3	Concrete Bath tub w/ Mortar/Paint	✓	APTA Bathrm	100		H	
18	1-3	Grey linoleum type Floor over yellow linoleum tile	Floor	APT (A) Kitchen	150			
19	1-3	Light structural glue	✓	APT A- front door-outside (kitchen)	50		M	
20	1-3	white caulk - Sealing wood	on Living	Floor (closet)	150			
21	1-3	2 layers VFT w/ yellow & Bl. mastic	Living RM Floor		200			
22	1-3	2 layers VFT w/ mastic hallway			150		H	
23	1-3	Tub floor tile & mortar	Floor	APT Bath/Bdrm doorways	70			
	1-3		✓	APT A Bath Rm	50			

C1=Good, D=Damaged, SD=Significantly Damaged

Received By / Date: Ryan Sulpen 7/12/2023

Sampled By: B.M.H. Date: 7-12-23  
 Transported By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Special Instructions: BG-3

11974

Company NOVA ENGINEERING & ENVIRONMENTAL

Address 4524 Oak Fair Boulevard, Suite 200

City / State / Zip Tampa, FL 33610

Phone 813-623-3100 FAX 813-623-3545 Email \_\_\_\_\_

Client / Owner: Indian River Co. Fabric Works

Project and/or Job Number: 10101-3023019

Project Address: 1375-32nd St, Vero Beach FL

# Asbestos Chain of Custody Record

Normal 3 Day  Next Day  Same Day  Immediate

Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)

Date: 7-12-23 Contact: B. McKinnis

Phone: 813-267-6044

Email: LABREPORTSENV@USANOVA.COM

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
24	1-3	2 Layers of Flooring		Facade	50		A	N
25	1-3	APT A - Bathroom	Floor	APT A.	200			
26	1-3	2 Layers Flooring	APT A	3 BRM	150			
27	1-3	Kitchen Floor		Linoleum type floor over wall board	100			
28	1-3	2 Layers Flooring		over wood - APT B	300			
29	1-3	2 Layers Flooring		Linoleum type floor over wall board	400			
30	1-3	3 Layers Flooring		APT B Floor Living & Dining & Bdrm	1000			
31	1-3	VFT, wall board, Linoleum type window flashing		BDG. East side	500			
		on Rollout windows		west, east, north, south windows				
		window caulk		APT-C				
		on Framing - Rollout windows						
		3 Layers Flooring						

C1-Good, D-Damaged, SD-Significantly Damaged

Sampled By: B. McKinnis Date: 7-12-23

Transported By: \_\_\_\_\_ Date: \_\_\_\_\_

Special Instructions: BG.3

Received By / Date: Ryan Schuyler 7/12/2023



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Clearwater, Florida 33759  
813-679-0720 / mhall005@tampabay.rr.com

NVLAP Lab Code 200703-0

Client :	Nova	Lab Set No. :	011996
Project :	1385 32nd St, Apts A and B	AT Job No. :	23-11996
Client Project No.:	10101-3023019	Report Date :	7/21/2023
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/14/2023
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 1 of 15

On 7/18/2023, one hundred (100) 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
011996-001	Tar Covered Shingles HA1-1	None Detected-Black Tar None Detected-White Coating None Detected-Black Roofing Shingle None Detected-Black Roofing Felt
011996-002	Roofing Shingles HA2-1	None Detected-White Coating None Detected-Black Roofing Shingle None Detected-Black Roofing Felt
011996-003	Roofing Shingles HA2-2	None Detected-White Coating None Detected-Black Roofing Shingle None Detected-Black Roofing Felt
011996-004	Roofing Shingles HA2-3	None Detected-White Coating None Detected-Black Roofing Shingle None Detected-Black Roofing Felt
011996-005	Tar/Gravel Roof HA3-1	None Detected-Gravel None Detected-White Compound Material 5% Chrysotile-Black Tar None Detected-White Coating None Detected-Black Tar None Detected-Black Layered Felts

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Project :	1385 32nd St, Apts A and B	AT Job No. :	23-11996
Client Project No.:	10101-3023019	Report Date :	7/21/2023
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/14/2023
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Page 2 of 15

On 7/18/2023, one hundred (100) 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
011996-006	Tar/Gravel Roof HA3-2	None Detected-Gravel None Detected-White Compound Material 5% Chrysotile-Black Tar None Detected-White Coating None Detected-Black Tar None Detected-Black Layered Felts
011996-007	Tar/Gravel Roof HA3-3	None Detected-Gravel None Detected-White Compound Material 5% Chrysotile-Black Tar None Detected-White Coating None Detected-Black Tar None Detected-Black Layered Felts
011996-008	Gray/White Caulk HA4-1	None Detected-Gray Coating None Detected-White Caulking 5% Chrysotile-Black Tar
011996-009	Gray/White Caulk HA4-2	None Detected-Gray Coating None Detected-White Caulking 5% Chrysotile-Black Tar

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Client Project No.:	10101-3023019	Report Date :	7/21/2023
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/14/2023
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Page 3 of 15

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Lab Sample No.	Sample Description / Location	Asbestos Content
011996-010	Gray/White Caulk HA4-3	None Detected-Gray Coating None Detected-White Caulking 5% Chrysotile-Black Tar
011996-011	Gray Flashing w/ Tar HA5-1	None Detected-Gray Coating None Detected-White Flashing 5% Chrysotile-Black Tar 2% Chrysotile-Silver Coating
011996-012	Gray Flashing w/ Tar HA5-2	None Detected-Gray Coating None Detected-White Flashing 5% Chrysotile-Black Tar 2% Chrysotile-Silver Coating
011996-013	Gray Flashing w/ Tar HA5-3	None Detected-Gray Coating None Detected-White Flashing 5% Chrysotile-Black Tar 2% Chrysotile-Silver Coating
011996-014	Gray/Brown Flashing HA6-1	None Detected-White Coating None Detected-Black Flashing
011996-015	Gray/Brown Flashing HA6-2	None Detected-White Coating None Detected-Black Flashing

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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NVLAP Lab Code 200703-0

Client :	Nova	Lab Set No. :	011996
Project :	1385 32nd St, Apts A and B	AT Job No. :	23-11996
Client Project No.:	10101-3023019	Report Date :	7/21/2023
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/14/2023
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		

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On 7/18/2023, one hundred (100) 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
011996-016	Gray/Brown Flashing HA6-3	None Detected-White Coating None Detected-Black Flashing
011996-017	Black Flashing HA7-1	None Detected-Gray Coating 2% Chrysotile-Silver Coating 5% Chrysotile-Black Flashing
011996-018	Black Flashing HA7-2	Not Analyzed
011996-019	Black Flashing HA7-3	Not Analyzed
011996-020	Block HA8-1	None Detected-Tan Brick None Detected-Gray Mortar
011996-021	Block HA8-2	None Detected-Tan Brick None Detected-Gray Mortar
011996-022	Block HA8-3	None Detected-Tan Brick None Detected-Gray Mortar
011996-023	Concrete Pad HA9-1	None Detected-Gray Concrete
011996-024	Concrete Pad HA9-2	None Detected-Gray Concrete

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Lab Sample No.	Sample Description / Location	Asbestos Content
011996-025	Concrete Pad HA9-3	None Detected-Gray Concrete
011996-026	Wallboard over Wood HA10-1	None Detected-Gray Paint None Detected-Tan Fiberboard
011996-027	Wallboard over Wood HA10-2	None Detected-Gray Paint None Detected-Tan Fiberboard
011996-028	Wallboard over Wood HA10-3	None Detected-Gray Paint None Detected-Tan Fiberboard
011996-029	Skirt Paneling HA11-1	None Detected-Gray Cement Board
011996-030	Skirt Paneling HA11-2	None Detected-Gray Cement Board
011996-031	Skirt Paneling HA11-3	None Detected-Gray Cement Board
011996-032	Ceiling Drywall w/ Rough Texture HA12-1	None Detected-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011996-033	Ceiling Drywall w/ Rough Texture HA12-2	None Detected-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.





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Lab Sample No.	Sample Description / Location	Asbestos Content
011996-034	Ceiling Drywall w/ Rough Texture HA12-3	None Detected-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011996-035	Peel N Stick Vinyl Type Floor w/ Glue HA13-1	None Detected-Brown Floor Tile None Detected-Tan Glue
011996-036	Peel N Stick Vinyl Type Floor w/ Glue HA13-2	None Detected-Brown Floor Tile None Detected-Tan Glue
011996-037	Peel N Stick Vinyl Type Floor w/ Glue HA13-3	None Detected-Brown Floor Tile None Detected-Tan Glue
011996-038	Drywall w/ Slight Texture HA14-1	2% Chrysotile-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011996-039	Drywall w/ Slight Texture HA14-2	2% Chrysotile-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011996-040	Drywall w/ Slight Texture HA14-3	2% Chrysotile-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Lab Sample No.	Sample Description / Location	Asbestos Content
011996-041	Wall Paper w/ Glue HA15-1	None Detected-Brown Wallpaper None Detected-Tan Adhesive
011996-042	Wall Paper w/ Glue HA15-2	None Detected-Brown Wallpaper None Detected-Tan Adhesive
011996-043	Wall Paper w/ Glue HA15-3	None Detected-Brown Wallpaper None Detected-Tan Adhesive
011996-044	2x4 SCT w/ Pinholes/Fissures HA16-1	None Detected-White Ceiling Tile
011996-045	2x4 SCT w/ Pinholes/Fissures HA16-2	None Detected-White Ceiling Tile
011996-046	2x4 SCT w/ Pinholes/Fissures HA16-3	None Detected-White Ceiling Tile
011996-047	2 Layers of Linoleum Type Flooring HA17-1	None Detected-Brown Floor Tile None Detected-Tan Mastic None Detected-Tan Linoleum Surface None Detected-White Backing
011996-048	2 Layers of Linoleum Type Flooring HA17-2	None Detected-Brown Floor Tile None Detected-Tan Mastic None Detected-Tan Linoleum Surface None Detected-White Backing

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Lab Sample No.	Sample Description / Location	Asbestos Content
011996-049	2 Layers of Linoleum Type Flooring HA17-3	None Detected-Brown Floor Tile None Detected-Tan Mastic None Detected-Tan Linoleum Surface None Detected-White Backing
011996-050	Tan Counter Caulk HA18-1	None Detected-Tan Caulk
011996-051	Tan Counter Caulk HA18-2	None Detected-Tan Caulk
011996-052	Tan Counter Caulk HA18-3	None Detected-Tan Caulk
011996-053	Plaster behind Drywall/SCT HA19-1	None Detected-White Plaster None Detected-Gray Plaster
011996-054	Plaster behind Drywall/SCT HA19-2	2% Chrysotile-White Surfacing w/ Paint None Detected-White Plaster None Detected-Gray Plaster
011996-055	Plaster behind Drywall/SCT HA19-3	None Detected-White Plaster None Detected-Gray Plaster
011996-056	Plaster behind Drywall/SCT HA20-1	None Detected-White Plaster None Detected-Gray Plaster

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Lab Sample No.	Sample Description / Location	Asbestos Content
011996-057	Plaster behind Drywall/SCT HA20-2	None Detected-White Plaster None Detected-Gray Plaster
011996-058	Plaster behind Drywall/SCT HA20-3	None Detected-White Plaster None Detected-Gray Plaster
011996-059	Brown Painted Textured Drywall HA21-1	2% Chrysotile-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011996-060	Brown Painted Textured Drywall HA21-2	2% Chrysotile-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011996-061	Brown Painted Textured Drywall HA21-3	2% Chrysotile-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011996-062	Rough Textured Wallboard Ceiling HA22-1	2% Chrysotile-White Texture w/ Paint
011996-063	Rough Textured Wallboard Ceiling HA22-2	Not Analyzed
011996-064	Rough Textured Wallboard Ceiling HA22-3	Not Analyzed

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Client Project No.:	10101-3023019	Report Date :	7/21/2023
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/14/2023
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 10 of 15

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Lab Sample No.	Sample Description / Location	Asbestos Content
011996-065	White/Tan Smooth Textured Drywall HA23-1	None Detected-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011996-066	White/Tan Smooth Textured Drywall HA23-2	None Detected-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011996-067	White/Tan Smooth Textured Drywall HA23-3	None Detected-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011996-068	Lt Brown Vinyl Covered Wallboard HA24-1	None Detected-Tan Coating None Detected-Tan Fiberboard
011996-069	Lt Brown Vinyl Covered Wallboard HA24-2	None Detected-Tan Coating None Detected-Tan Fiberboard
011996-070	Lt Brown Vinyl Covered Wallboard HA24-3	None Detected-Tan Coating None Detected-Tan Fiberboard
011996-071	Counter Caulk HA25-1	None Detected-White Caulking
011996-072	Counter Caulk HA25-2	None Detected-White Caulking

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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NVLAP Lab Code 200703-0

Client : Nova Lab Set No. : 011996  
 Project : 1385 32nd St, Apts A and B AT Job No. : 23-11996  
 Client Project No.: 10101-3023019 Report Date : 7/21/2023  
 Identification : Asbestos, Bulk Sample Analysis Sample Date : 7/14/2023  
 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

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Lab Sample No.	Sample Description / Location	Asbestos Content
011996-073	Counter Caulk HA25-3	None Detected-White Caulking
011996-074	Counter Top w/ Glue HA26-1	None Detected-Yellow Counter Top None Detected-Yellow Adhesive
011996-075	Counter Top w/ Glue HA26-2	None Detected-Yellow Counter Top None Detected-Yellow Adhesive
011996-076	Counter Top w/ Glue HA26-3	None Detected-Yellow Counter Top None Detected-Yellow Adhesive
011996-077	Black Sink Coating HA27-1	None Detected-Black Sink Coating
011996-078	Black Sink Coating HA27-2	None Detected-Black Sink Coating
011996-079	Black Sink Coating HA27-3	None Detected-Black Sink Coating
011996-080	Smooth Brown Wallboard Walls HA28-1	None Detected-White Coating None Detected-Tan Fiberboard
011996-081	Smooth Brown Wallboard Walls HA28-2	None Detected-White Coating None Detected-Tan Fiberboard

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Lab Sample No.	Sample Description / Location	Asbestos Content
011996-082	Smooth Brown Wallboard Walls HA28-3	None Detected-White Coating None Detected-Tan Fiberboard
011996-083	Silver Paper w/ Yellow Insulation HA29-1	None Detected-Silver/Tan Wrap None Detected-Black Coating None Detected-Yellow Glass Insulation
011996-084	Silver Paper w/ Yellow Insulation HA29-2	None Detected-Silver/Tan Wrap None Detected-Black Coating None Detected-Yellow Glass Insulation
011996-085	Silver Paper w/ Yellow Insulation HA29-3	None Detected-Silver/Tan Wrap None Detected-Black Coating None Detected-Yellow Glass Insulation
011996-086	Peel N Stick Flooring over Wood HA30-1	None Detected-Brown Floor Tile None Detected-Yellow Mastic
011996-087	Peel N Stick Flooring over Wood HA30-2	None Detected-Brown Floor Tile None Detected-Yellow Mastic
011996-088	Peel N Stick Flooring over Wood HA30-3	None Detected-Brown Floor Tile None Detected-Yellow Mastic

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Lab Sample No.	Sample Description / Location	Asbestos Content
011996-089	Black Window Flashing HA31-1	None Detected-Black Flashing
011996-090	Black Window Flashing HA31-2	None Detected-Black Flashing
011996-091	Black Window Flashing HA31-3	None Detected-Black Flashing
011996-092	Window around Glass HA32-1	None Detected-White Caulking
011996-093	Window around Glass HA32-2	None Detected-White Caulking
011996-094	Window around Glass HA32-3	None Detected-White Caulking
011996-095	Tan Window Caulk HA33-1	None Detected-Gray/White Caulk None Detected-Tan Wood
011996-096	Tan Window Caulk HA33-2	None Detected-Gray/White Caulk None Detected-Tan Wood
011996-097	Tan Window Caulk HA33-3	None Detected-Gray/White Caulk None Detected-Tan Wood
011996-098	Duct Tape HA34-1	None Detected-Gray Duct Tape
011996-099	Duct Tape HA34-2	None Detected-Gray Duct Tape

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.





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Lab Sample No.	Sample Description / Location	Asbestos Content
011996-100	Duct Tape HA34-3	None Detected-Gray Duct Tape

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### 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

Approved Signatory :

11996

# Asbestos Chain of Custody Record

Company NOVA ENGINEERING & ENVIRONMENTAL

Address 4524 Oak Fair Boulevard, Suite 200

City / State / Zip Tampa, FL 33610

Phone 813-623-3100 FAX 813-623-3545 Email \_\_\_\_\_

Client / Owner: Indian River Co. Public works

Project and/or Job Number: 10101-3023 019 APT'S A+B

Project Address: 1385 - 32nd ST. Vero Beach FL.

Normal 3 Day  Next Day  Same Day  Immediate

Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)

Date: 7-14-23 Contact: B. McKinley

Phone: 813-267-6044 FAX: \_\_\_\_\_

Email: LABREPORTSENV@USANOVA.COM

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Frangible Yes/No
1	1-1	Tar covered shingles on Roof Pitch	/	Both A+B Roof Pitch - slope inward	800	D	L	N
2	1-3	Roofing shingles outside pitch	/	Both A+B slope out.	800			
3	1-3	Tar & gravel Roof	/	CTR Plateau between pitches	600			
4	1-3	Grout & white caulk	/	Roof Seams under eaves	100			
5	1-3	Grout Flashing w/ Tar	/	Front eaves of APT-A	25			
6	1-3	Grout / brown Flashing on stacks	/	Roof overhangs both APT'S	50			
7	1-3	Bl. Flashing on stacks & overhangs	/	↓	100			
8	1-3	Block from CTR of structure	/	Front & Rear w/ mortar	500		A	

C=Good, D=Damaged, SD=Significantly Damaged

Sampled By: B. McKinley Date: 7-14-23

Transported By: \_\_\_\_\_ Date: \_\_\_\_\_

Special Instructions: BG-1

Received By / Date:

Ryan Seligman 7/18/2023

119916

Company NOVA ENGINEERING & ENVIRONMENTAL

Address 4524 Oak Fair Boulevard, Suite 200

City / State / Zip Tampa, FL 33610

Phone 813-623-3100 FAX 813-623-3545 Email \_\_\_\_\_

Client / Owner Indian River Co. Public Works

Project and/or Job Number: 10101-3023019 APT's A & B

Project Address: 1385-32nd ST. Vero Beach FL

# Asbestos Chain of Custody Record

Normal 3 Day  Next Day  Same Day  Immediate

Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)

Date: 7-14-23 Contact: B. McKune

Phone: 813-267-6044 FAX: \_\_\_\_\_

Email: LABREPORTSENV@USANOVA.COM

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Frangible Yes/No
9	1-3	Concrete Pad front door	2 Rear	APT #A	50	D	H	N
10	1-3	Wall board over wood. Painted	APT-A APT A APT B	APT A South side East side South side	1,000			
11	1-3	Skirt Paneling around BLDG	BATH A & B	Possible transite	1,000			
12	1-3	Ceiling DRYWALL w/ Rough texture		Bedroom APT-A	500		M	Y
13	1-3	Peel n stick vinyl type floor w/ floor		Living RM Kitchen	200		H	N
14	1-3	DRYWALL w/ slight texture		APT-A BedRM	700			Y
15	1-3	wall Paper w/ glue behind some DRYWALL		APT A Kitchen Bath Living	200		M	N
16	1-3	SCOT 2X4 w/ Pinholes and fissures		Kitchen Living	700			Y

C=Good, D=Damaged, SD=Significantly Damaged

Sampled By: B. McKune Date: 7-14-23  
 Transported By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Special Instructions: BG-2

Received By / Date: Ryan Schuyler 7/18/2023

11996

Company NOVA ENGINEERING & ENVIRONMENTAL

Address 4524 Oak Fair Boulevard, Suite 200

City/State/Zip Tampa, FL 33610

Phone 813-623-3100 FAX 813-623-3545 Email \_\_\_\_\_

Client/Owner: Indian River Co. Public Works

Project and/or Job Number: 10101-3023019 APTS A & B

Project Address: 1385-32nd Street Vero Beach FL

# Asbestos Chain of Custody Record

Normal 3 Day  Next Day  Same Day  Immediate

Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)

Date: 7-14-23 Contact: B. McKinnis

Phone: 813-267-6044 FAX: \_\_\_\_\_

Email: LABREPORTSENV@USANOVA.COM

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
17	1-3	2 layers of linoleum type flooring	In BDRM	APT A	200	D	H	N
18	1-3	Tan counter caulk	/	Kitchen at sink	50	/	/	/
19	1-3	Plaster behind dry wall / set	/	APT A - Living Kitchen Bath - above ceiling	200	/	M	/
20	1-3	Plaster behind dry wall / set	/	APT - B - Living Kitchen BDRM	400	/	/	N
21	1-3	Brown Painted textured dry wall	/	APT - B Bedroom	200	/	H	V
22	1-3	Rough textured wall board - ceiling	/	↓	200	/	H	/
23	1-3	white tan smooth textured dry wall	/	↓	200	/	/	/
24	1-3	Light brown vinyl covered wall board	/	APT B - Living/ Kitchen walls	200	/	H	/

CI=Good, D=Damaged, SD=Significantly Damaged

Sampled By: Br M Ghini Date: 7-14-23

Transported By: \_\_\_\_\_ Date: \_\_\_\_\_

Special Instructions: BG-2

Received By / Date:

Ryan Seligson 7/18/2023

11996

Company NOVA ENGINEERING & ENVIRONMENTAL

Address 4524 Oak Fair Boulevard, Suite 200

City / State / Zip Tampa, FL 33610

Phone 813-623-3100 FAX 813-623-3545 Email \_\_\_\_\_

Client / Owner: Indian River Co. Public Works

Project and/or Job Number: 10101-3023019 APT's A & B

Project Address: 1385-32nd St. Vero Beach FL

# Asbestos Chain of Custody Record

Normal 3 Day  Next Day  Same Day  Immediate

Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)

Date: 7-14-23 Contact: B. McGinnis

Phone: 813-267-6044 FAX: \_\_\_\_\_

Email: LABREPORTSENV@USANOVA.COM

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
25	1-3	counter caulk	✓	Kitchen APT B	100	D	M	N
26	1-3	counter top w/ glue	✓	↓	↓	↓	↓	↓
27	1-3	Bl. Sink coating	✓	↓	10	↓	↓	↓
28	1-3	Smooth brown wall board ceiling	✓	Kitchen & Living	200	↓	H	↓
29	1-3	Silver paper w/ yellow insulation	✓	Bedroom East wall	100	↓	M	↓
30	1-3	Peet Ustik Flooring over wood	✓	APT B Floors Living/Bath/Bedrm	400	↓	H	↓

C=Good, D=Damaged, SD=Significantly Damaged

Sampled By: B. McGinnis Date: 7-14-23

Transported By: \_\_\_\_\_ Date: \_\_\_\_\_

Special Instructions: B.G. 2

Received By / Date:

Paper Seligman 7/18/2023

11996

# Asbestos Chain of Custody Record

Company NOVA ENGINEERING & ENVIRONMENTAL  
Address 4524 Oak Fair Boulevard, Suite 200

City / State / Zip Tampa, FL 33610  
Phone 813-623-3100 FAX 813-623-3545 Email \_\_\_\_\_

Client / Owner: Indiana River Co. Public Works  
Project and/or Job Number: 10101-3073019  
Project Address: 1385-32nd ST. Vero Beach FL

Date: 7-14-23 Contact: B. McKinnis  
Phone: 813-267-6044 FAX: \_\_\_\_\_  
Email: LABREPORTSENV@USANOVA.COM

Normal 3 Day  Next Day  Same Day  Immediate   
Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
31	1-3	Bl. window flashing	✓	outside windows	500	P	H	N
32	1-3	window around glass- outside	✓	Glass- N, E, W, windows	500			
33	1-3	window caulk (Tan) Around framing outside	✓	East, north window	500		M	
34	1-3	Duct tape to Seal around windows		north, west windows	25			

G=Good, D=Damaged, SD=Significantly Damaged

Sampled By: B.M. McKinnis Date: 7-14-23  
Transported By: \_\_\_\_\_ Date: \_\_\_\_\_  
Special Instructions: \_\_\_\_\_

Received By / Date: Pagan. Schepers 7/18/2023



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

NVLAP Lab Code 200703-0

Client :	Nova	Lab Set No. :	011997
Project :	1385 32nd St, Apts C and D	AT Job No. :	23-11997
Client Project No.:	10101-3023019	Report Date :	7/21/2023
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		

On 7/18/2023, forty-eight (48) 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
011997-001	Crack Filler in Concrete HA1-1	None Detected-Gray Crack Filler
011997-002	Crack Filler in Concrete HA1-2	None Detected-Gray Crack Filler
011997-003	Crack Filler in Concrete HA1-3	None Detected-Gray Crack Filler
011997-004	Concrete Painted Blue HA2-1	None Detected-Gray Concrete w/ Paint
011997-005	Concrete Painted Blue HA2-2	None Detected-Gray Concrete w/ Paint
011997-006	Concrete Painted Blue HA2-3	None Detected-Gray Concrete w/ Paint
011997-007	Black Tar Paper HA3-1	None Detected-Black Tar Felt
011997-008	Black Tar Paper HA3-2	None Detected-Black Tar Felt
011997-009	Black Tar Paper HA3-3	None Detected-Black Tar Felt
011997-010	Silver Tape HA4-1	None Detected-Silver Foil None Detected-Yellow Adhesive
011997-011	Silver Tape HA4-2	None Detected-Silver Foil None Detected-Yellow Adhesive

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.





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NVLAP Lab Code 200703-0

Client :	Nova	Lab Set No. :	011997
Project :	1385 32nd St, Apts C and D	AT Job No. :	23-11997
Client Project No.:	10101-3023019	Report Date :	7/21/2023
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		

On 7/18/2023, forty-eight (48) 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
011997-012	Silver Tape HA4-3	None Detected-Silver Foil None Detected-Yellow Adhesive
011997-013	Wall Insulation w/ Paper/Black Backing HA5-1	None Detected-Pink Glass Insulation None Detected-Black Coating None Detected-Brown Paper Backing
011997-014	Wall Insulation w/ Paper/Black Backing HA5-2	None Detected-Pink Glass Insulation None Detected-Black Coating None Detected-Brown Paper Backing
011997-015	Wall Insulation w/ Paper/Black Backing HA5-3	None Detected-Pink Glass Insulation None Detected-Black Coating None Detected-Brown Paper Backing
011997-016	Textured Ceiling Drywall w/ Insulation HA6-1	None Detected-White Texture None Detected-Tan DW Paper Backing None Detected-White Drywall Material None Detected-Pink Glass Insulation
011997-017	Textured Ceiling Drywall w/ Insulation HA6-2	None Detected-White Texture None Detected-Tan DW Paper Backing None Detected-White Drywall Material None Detected-Pink Glass Insulation

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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NVLAP Lab Code 200703-0

Client :	Nova	Lab Set No. :	011997
Project :	1385 32nd St, Apts C and D	AT Job No. :	23-11997
Client Project No.:	10101-3023019	Report Date :	7/21/2023
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 3 of 8

On 7/18/2023, forty-eight (48) 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
011997-018	Textured Ceiling Drywall w/ Insulation HA6-3	None Detected-White Texture None Detected-Tan DW Paper Backing None Detected-White Drywall Material None Detected-Pink Glass Insulation
011997-019	Smooth Drywall HA7-1	None Detected-White Surfacing w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011997-020	Smooth Drywall HA7-2	None Detected-White Surfacing w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011997-021	Smooth Drywall HA7-3	None Detected-White Surfacing w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011997-022	Painted Wallboard HA8-1	None Detected-Gray Paint None Detected-Tan Fiberboard
011997-023	Painted Wallboard HA8-2	None Detected-Gray Paint None Detected-Tan Fiberboard

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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NVLAP Lab Code 200703-0

Client :	Nova	Lab Set No. :	011997
Project :	1385 32nd St, Apts C and D	AT Job No. :	23-11997
Client Project No.:	10101-3023019	Report Date :	7/21/2023
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 4 of 8

On 7/18/2023, forty-eight (48) 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
011997-024	Painted Wallboard HA8-3	None Detected-Gray Paint None Detected-Tan Fiberboard
011997-025	Lower Wall Siding HA9-1	None Detected-Gray Cement Board
011997-026	Lower Wall Siding HA9-2	None Detected-Gray Cement Board
011997-027	Lower Wall Siding HA9-3	None Detected-Gray Cement Board
011997-028	Upper Wall Siding HA10-1	None Detected-Gray Cement Board
011997-029	Upper Wall Siding HA10-2	None Detected-Gray Cement Board
011997-030	Upper Wall Siding HA10-3	None Detected-Gray Cement Board
011997-031	Pink Wall Insulation HA11-1	None Detected-Pink Glass Insulation
011997-032	Pink Wall Insulation HA11-2	None Detected-Pink Glass Insulation
011997-033	Pink Wall Insulation HA11-3	None Detected-Pink Glass Insulation
011997-034	White VFT w/ Black/Yellow Mastic HA12-1	None Detected-Gray/Blue Floor Tile None Detected-Black Backing None Detected-Yellow Adhesive

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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NVLAP Lab Code 200703-0

Client :	Nova	Lab Set No. :	011997
Project :	1385 32nd St, Apts C and D	AT Job No. :	23-11997
Client Project No.:	10101-3023019	Report Date :	7/21/2023
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 5 of 8

On 7/18/2023, forty-eight (48) 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
011997-035	White VFT w/ Black/Yellow Mastic HA12-2	None Detected-Gray/Blue Floor Tile None Detected-Black Backing None Detected-Yellow Adhesive
011997-036	White VFT w/ Black/Yellow Mastic HA12-3	None Detected-Gray/Blue Floor Tile None Detected-Black Backing None Detected-Yellow Adhesive
011997-037	Lt Brown Painted Drywall HA13-1	None Detected-Brown Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011997-038	Lt Brown Painted Drywall HA13-2	None Detected-Brown Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011997-039	Lt Brown Painted Drywall HA13-3	None Detected-Brown Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011997-040	Rough Textured Ceiling Drywall HA14-1	None Detected-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Clearwater, Florida 33759  
813-679-0720 / mhall005@tampabay.rr.com

NVLAP Lab Code 200703-0

Client :	Nova	Lab Set No. :	011997
Project :	1385 32nd St, Apts C and D	AT Job No. :	23-11997
Client Project No.:	10101-3023019	Report Date :	7/21/2023
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		

On 7/18/2023, forty-eight (48) 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
011997-041	Rough Textured Ceiling Drywall HA14-2	None Detected-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011997-042	Rough Textured Ceiling Drywall HA14-3	None Detected-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011997-043	Swirl Textured Ceiling Drywall HA15-1	None Detected-White Texture None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011997-044	Swirl Textured Ceiling Drywall HA15-2	None Detected-White Texture None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011997-045	Swirl Textured Ceiling Drywall HA15-3	None Detected-White Texture None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011997-046	White Bonding on Drywall HA16-1	None Detected-White Bonding
011997-047	White Bonding on Drywall HA16-2	None Detected-White Bonding

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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NVLAP Lab Code 200703-0

Client :	Nova	Lab Set No. :	011997
Project :	1385 32nd St, Apts C and D	AT Job No. :	23-11997
Client Project No.:	10101-3023019	Report Date :	7/21/2023
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 7 of 8

On 7/18/2023, forty-eight (48) 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
011997-048	White Bonding on Drywall HA16-3	None Detected-White Bonding

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Client :	Nova	Lab Set No. :	011997
Project :	1385 32nd St, Apts C and D	AT Job No. :	23-11997
Client Project No.:	10101-3023019	Report Date :	7/21/2023
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 8 of 8

**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

Approved Signatory :

11997

Company **NOVA ENGINEERING & ENVIRONMENTAL**

Address **4524 Oak Fair Boulevard, Suite 200**

City / State / Zip **Tampa, FL 33610**

Phone **813-623-3100** FAX **813-623-3545** Email \_\_\_\_\_

Client / Owner: **Fud.ay Rev.ey Co. Public works**

Project and/or Job Number: **10101-3023019**

Project Address: **1385 32nd ST. Varo Bch APT's C & D**

# Asbestos Chain of Custody Record

Normal 3 Day  Next Day  Same Day  Immediate

Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)

Date: **7-17-23** Contact: **B. Mckinnis**

Phone: **813-267-6044** FAX: \_\_\_\_\_

Email: **LABREPORTSENV@USANOVA.COM**

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
1	1-3	Crack fill-in	APT-C	Floor	10	S	H	N
2	1-3	Concrete	APT-C	Floor	400			
3	1-3	Concrete - Painted Blue	APT-C	Floor	10			
4	1-3	Blue Tap Paper off Water Heater	Shared BFC&D	Shed	5			
5	1-3	Silver tape on Water Heater stack	↓	↓	400			
6	1-3	Wall Insulation w/ Paper / Blue backing	APT-C	Inside	400			
7	1-3	Textured Ceiling	Insulation	APT-C ceiling	400			
8	1-3	Dry wall w/ Insulation	APT-C	walls Inside	↓			
9	1-3	Smooth Dry wall	APT-C	Outside over wood	↓		H	N

G=Good, D=Damaged, SD=Significantly Damaged

Sampled By: **B. M. McKinnis** Date: **7-17-23**

Transported By: \_\_\_\_\_ Date: \_\_\_\_\_

Special Instructions: **13G-1**

Received By / Date:

**Ryan Seligman 7/18/2023**



11997

# Asbestos Chain of Custody Record

Company NOVA ENGINEERING & ENVIRONMENTAL

Address 4524 Oak Fair Boulevard, Suite 200

City / State / Zip Tampa, FL 33610

Phone 813-623-3100 FAX 813-623-3545 Email \_\_\_\_\_

Client / Owner: Indian River CO. Public Works

Project and/or Job Number: 1001-3023019

Project Address: 1385 - 3rd St. Vero Beach APTS CD

Normal 3 Day  Next Day  Same Day  Immediate

Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)

Date: 7-17-23 Contact: B. McKinnis

Phone: 813-267-6044 FAX: \_\_\_\_\_

Email: LABREPORTSENV@USANOVA.COM

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
9	1-3	Lower wall siding	APTS CD	out side wall	500	D	H	N
10	1-3	upper wall siding	↓	↓	500			
11	1-3	wall Insulation Pink	APT-D	Inside	400		M	
12	1-3	white w/ Blue diamond shape	APT-D	FT w/ Bl. mastic Yellow mastic Bath - APT-D	50		H	
13	1-3	Light brown painted Drt wall	APT-D	Inside	400			
14	1-3	Rough textured Ceiling Drt wall	APT-D	Inside Kitchen/Living RM	400			
15	1-3	Swirl textured Ceiling Drt wall	↓	Inside BedRM Bath	200			
16	1-3	White Bonding on Drt wall Inside	walls - CD	↓	300			

G=Good, D=Damaged, SD=Significantly Damaged

Sampled By: B. McKinnis Date: 7-17-23  
 Transported By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Special Instructions: 30-1

Received By / Date: Ryan Seligman 7/18/2023



3151 San Bernadino St.  
Clearwater, Florida 33759  
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 :	7/21/2023
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		

On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnis 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

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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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

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Lab Sample No.	Sample Description / Location	Asbestos Content
011998-023	Wallboard Painted Walls HA21-3	None Detected-Gray Paint None Detected-Tan Fiberboard
011998-024	Window Seal Caulk HA22-1	None Detected-Clear/Gray Caulk
011998-025	Window Seal Caulk HA22-2	None Detected-Clear/Gray Caulk
011998-026	Window Seal Caulk HA22-3	None Detected-Clear/Gray Caulk
011998-027	Dk Gray Crack Filler HA23-1	None Detected-Gray/White Filler
011998-028	Dk Gray Crack Filler HA23-2	None Detected-Gray/White Filler
011998-029	Dk Gray Crack Filler HA23-3	None Detected-Gray/White Filler
011998-030	Red Brick Painted Brown HA24-1	None Detected-Brown Paint None Detected-Red Surfacing None Detected-Gray Stucco None Detected-Tan Mastic
011998-031	Red Brick Painted Brown HA24-2	None Detected-Brown Paint None Detected-Red Surfacing None Detected-Gray Stucco None Detected-Tan Mastic

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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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

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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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

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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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
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

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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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

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.





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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% Chrysotile-Silver Coating 2
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
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

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Lab Sample No.	Sample Description / Location	Asbestos Content
011998-069	Black Flashing HA37-1	None Detected-Black Tar None Detected-Silver Coating 5% Chrysotile-Black Tar 2 2% Chrysotile-Silver Coating 2
011998-070	Black Flashing HA37-2	None Detected-Black Tar None Detected-Silver Coating 5% Chrysotile-Black Tar 2 2% Chrysotile-Silver Coating 2
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

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Lab Sample No.	Sample Description / Location	Asbestos Content
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
011998-076	Drywall Smooth Surface HA38-5	2% Chrysotile-White Surfacing w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011998-077	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.

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Lab Sample No.	Sample Description / Location	Asbestos Content
011998-078	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.
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 None Detected-Tan DW Paper Backing None Detected-White Drywall Material

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnis 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
011998-084	Textured Drywall HA41-2	2% Chrysotile-White Texture w/ Paint None Detected-Tan DW Paper Backing None Detected-White Drywall Material
011998-085	Textured Drywall HA41-3	2% Chrysotile-White Texture w/ Paint 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

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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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 : 7/21/2023  
 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

On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnis 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
011998-092	Brown Peel N Stick Flooring w/ Glue HA44-1	None Detected-Brown Floor Tile None Detected-Clear Adhesive
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

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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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 : 7/21/2023  
 Identification : Asbestos, Bulk Sample Analysis Sample Date : 7/17/2023  
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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
011998-100	Black Vinyl Baseboards w/ Glue HA46-1	None Detected-Black Baseboard None Detected-Yellow Glue
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

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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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 :	7/21/2023
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		

On 7/18/2023, one hundred thirty-two (132) bulk material samples were submitted by Bruce McKinnis 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
011998-107	Silver Tape HA48-2	None Detected-Silver Foil None Detected-Yellow Adhesive
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

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.





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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 :	7/21/2023
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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
011998-113	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

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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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
011998-119	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

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Client Project No.:	10101-3023019	Report Date :	7/21/2023
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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

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested. The results may not be reproduced except in full.



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Client Project No.:	10101-3023019	Report Date :	7/21/2023
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Page 19 of 19

### 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

Approved Signatory :

119918

Company NOVA ENGINEERING & ENVIRONMENTAL

Address 4524 Oak Fair Boulevard, Suite 200

City / State / Zip Tampa, FL 33610

Phone 813-623-3100 FAX 813-623-3545 Email \_\_\_\_\_

Client / Owner: Indian River Co. Public works

Project and/or Job Number: 10101-3023 019

Project Address: 3136-3146 W.3 | Vero Beach FL

# Asbestos Chain of Custody Record

Normal 3 Day  Next Day  Same Day  Immediate

Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)

Date: 7-17-23 Contact: B. McKinnis

Phone: 813-267-6044 FAX: \_\_\_\_\_

Email: LABREPORTSENV@USANOVA.COM

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
17	1-3	APT. D - Siding Patch glue	Alexandria Patched Patch 1785-3 and S.J.	patch metal w/ glue glue only here	10	D	M	✓
18	1-3	counter top concrete	APT. B & C 1385	Kitchen / Bath	100	D	H	✓
19	1-7	light gray Plaster w/paint	3136 - N 3136 - E 3136 NW 3146 East 3146 South 3146 SE corner 3146 West	Around BLDG Main - over Block	10,000	D	H	✓
19	↓	↓	↓	↓	↓	↓	↓	↓
20	1-7	Dark Gray w/Paint Plaster	3136 East middle 3136 SW corner 3146 SW corner 3136 Front Loop 3146 / 3136 3146 S.W. side 3146 Front SEW -	East middle SW corner SW corner Front Loop Roll doors area	↓	↓	↓	↓
↓	↓	↓	↓	↓	↓	↓	↓	↓

C=Good, D=Damaged, SD=Significantly Damaged

Sampled By: B. McKinnis Date: 7-17-23

Transported By: \_\_\_\_\_ Date: \_\_\_\_\_

Special Instructions: B.G.D.

Received By / Date:

Phon. Seligman 7/18/2023

119918

Company NOVA ENGINEERING & ENVIRONMENTAL

Address 4524 Oak Fair Boulevard, Suite 200

City / State / Zip Tampa, FL 33610

Phone 813-623-3100 FAX 813-623-3545 Email

Client / Owner: Indian River Co. Public works

Project and/or Job Number: 10101-3023019

Project Address: 3136-3146 U.S-1 Vero Beach

Asbestos Chain of Custody Record

Normal 3 Day  Next Day  Same Day  Immediate

Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)

Date: 7-17-23 Contact: B. McKinnis

Phone: 813-267-6044 FAX:

Email: LABREPORTSENV@USANOVA.COM

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
21	1-3	wall board Painted	Front Row North side	Main BLDG	5,000 <del>10,000</del>	D	M	N
22	1-3	walls around Bldg window Seal Caulk	On Rear window - around glass		200			
23	1-3	Dark gret Crack Filler	On Siding wall - out	main BLDG Rear Mainly of BLDG	500			
24	1-3	Brick (Red) Painted brown	Front Row North side	Main BLDG	5,000		H	
25	1-3	lower siding on BLDG	Rear of Rollup Doors North side Bldg New + ATS South end near ATS w/ Paint		↓			
26	1-3	Stucco Patch Along bottom of	3146 wall - South side of Main BLDG		500			

C=Good, D=Damaged, SD=Significantly Damaged

Sampled By: B. McKinnis Date: 7-17-23

Transported By: Date:

Special Instructions: BG-2

Received By / Date:

Ryan Sulymur 7/18/2023

11998

# Asbestos Chain of Custody Record

Company NOVA ENGINEERING & ENVIRONMENTAL  
 Address 4524 Oak Fair Boulevard, Suite 200  
 City / State / Zip Tampa, FL 33610  
 Phone 813-623-3100 FAX 813-623-3545 Email \_\_\_\_\_  
 Client / Owner: Indian River Co. Public Works  
 Project and/or Job Number: 10101-3023019  
 Project Address: 3136-3146 US 1 Vero Bch

Normal 3 Day  Next Day  Same Day  Immediate   
 Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)  
 Date: 7-17-23 Contact: B. McKinnis  
 Phone: 813-267-6044 FAX: \_\_\_\_\_  
 Email: LABREPORTSENV@USANOVA.COM

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
27	1-3	Shingle Roof, North Pitch over Gravel Roof	1385 APTS	e sheds,	1,000	D	L	X
28	1-3	between metal Pitch	Roofs - over hang - front		1,000			
29	1-3	Asphalt Roof Patch over tar & gravel	Roof - Southern side between pitches		200			
30	1-3	Bl. Tar over Seams, Roof corners	corners & patches					
31	1-3	Root Seem Patch at Bottom of metal	metal Pitch Roofs - between pitches w/ foam		1,000			
32	1-3	Gravel under metal Roof at Seem	- lower side between pitches		50			
33	1-3	Bl. Root Flashing on stacks	metal Roofs over eaves & stack base		200			
34	1-3	white/grey Flashing on stacks - N. side	Shingle Roof, over APTS		50			

G=Good, D=Damaged, SD=Significantly Damaged

Sampled By: B. McKinnis Date: 7-17-23  
 Transported By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Special Instructions: BG-3

Received By / Date: Ryan Seligman 7/18/2023

11998

**NOVA ENGINEERING & ENVIRONMENTAL**  
 4524 Oak Fair Boulevard, Suite 200  
 Tampa, FL 33610  
 Phone 813-623-3100 FAX 813-623-3545  
 Client / Owner: Jadean Rev Co. Public Works  
 Project and/or Job Number: 10101-3023-019  
 Project Address: 3136-3146 U.S. 1 Vero Beach

**Asbestos Chain of Custody Record**  
 Normal 3 Day  Next Day  Same Day  Immediate   
 Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)  
 Date: 7-17-23 Contact: B. McKinnis  
 Phone: 813-267-6044 FAX:   
 Email: LABREPORTSENV@USANOVA.COM

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
35	1-3	white Flashing under metal roof	at Seams	Metal Roofs Main BLDG.	2,000	D	L	N
36	1-3	Bl. pitch on Paraph		Front Eves of Main BLDG	500			
37	1-3	Textured			1,000			
38	1-5	Bl. Flashing at South BLDG. Metal Drt wall, smooth surface	Seams at inside with E main BLDG (above it) Wall near ETR RM Main office South wall	gravel Roof (above it) main BLDG (N. stop)	5,000		M	
38	↓			South RM wall	↓			
39	1-3	2 layers Floor-CTR Bath RM	Linoeum TRM floor over V.FT		50		H	N
40	1-3	ScT w/ fissures & pin holes 2x4	CTR Main South ATT.	BLDG.	700		M	
41	1-3	Textured Drt wall	South with E-main RM BLDG. South wall & ceiling		1,000			

G=Good, D=Damaged, SD=Significantly Damaged

Sampled By: B. McKinnis Date: 7-17-23  
 Transported By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Special Instructions: BO-4

Received By / Date: Piper Scheyen 7/18/2023



11998

**NOVA ENGINEERING & ENVIRONMENTAL**  
 4524 Oak Fair Boulevard, Suite 200  
 Tampa, FL 33610  
 Phone 813-623-3100 FAX 813-623-3545  
 Client / Owner: Tadon River Co. Public works  
 Project and/or Job Number: 10101-3023019  
 Project Address: 336-93146 US Fvero Bch

**Asbestos Chain of Custody Record**  
 Normal 3 Day  Next Day  Same Day  Immediate   
 Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)  
 Date: 7-17-23 Contact: B. McKeane  
 Phone: 813-267-6044 FAX: \_\_\_\_\_  
 Email: LABREPORTSENV@USANOVA.COM

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
42	1-3	Brown VFT w/ mastic	X	South WHSE Bathroom	50	D	H	N
43	1-3	Green VFT w/ mastic	X	3534 APT Bathroom	50	D	H	N
44	1-3	Brown Peel n stick Flooring w/ glue	X	Back Roomy Living/Kitchen	200	D	H	N
45	1-5	Great Plaster	X	Main South Bath-CTR main Front	5000	D	H	N
46	1-3	Blue vinyl baseboards w/ glue	X	South WHSE wall CTR. E. wall door and stock RM	500	D	H	N
47	1-3	HVAC Duct (Bot) and Insulation	X	only unit w/ HVAC ART. unit stripped down	100	D	M	N
48	1-3	Silver Tape to seal Insulation edges	X	main CTR WHSE	500	D	H	N

G=Good, D=Damaged, SD=Significantly Damaged

Received By / Date:  
Ryan Schlyer 7/18/2023

Sampled By: B. McKeane Date: 7-17-23  
 Transported By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Special Instructions: BG-4

119098

Company NOVA ENGINEERING & ENVIRONMENTAL

Address 4524 Oak Fair Boulevard, Suite 200

City / State / Zip Tampa, FL 33610

Phone 813-623-3100 FAX 813-623-3545 Email \_\_\_\_\_

Client / Owner: Indrean Rivers Co. Public Works

Project and/or Job Number: 6061-3023019

Project Address: 3136 W.S. 1 Vero Beach

# Asbestos Chain of Custody Record

Normal 3 Day  Next Day  Same Day  Immediate

Stop First Positive: Yes  No  (\*Receive Cut Off Time: 2pm)

Date: 7-17-23 Contact: B. McKinnis

Phone: 813-267-6044 FAX: \_\_\_\_\_

Email: LABREPORTSENV@USANOVA.COM

HSA	Sample No.	Material Description (include size/color)	Sample Location	Homogeneous Area Locations	Quantity Sq. Ft.	Cond.	Pot. Disturb.	Friable Yes/No
49	1-3	2 layers VFT w/ Leveling compound	✓	Small office area north office section w/ safe	100	D	H	N
50	1-3	OFFICE Insulation silver backing foam	✓	walls and ceiling in office - south part of office	100			
51	1-3	Behind wood wall Paneling - glue w/ wood	✓	whole office walls - n. & s. west offices	200			
52	1-3	VFT w/ leveling compound	✓	office floor - south office	100			
53	1-3	wall paper - <del>over</del>	APT 3134 Front living Rm	living Rm and kitchen area walls	200			
54	1-3	W. Wall board white - w/ dis Plat	holes for hanging	Product - Front central w/HSE	500			
55	1-3	Caulking around wall board	wall board	Front central	500			
56	1-3	wall board - work shop walls	Rear ctr w/HSE	W/HSE - Showroom new office	500			
				At center roll up door	500			

C=Good, D=Damaged, SD=Significantly Damaged

Sampled By: B. McKinnis Date: 7-17-23

Transported By: \_\_\_\_\_ Date: \_\_\_\_\_

Special Instructions: BG.S

Received By / Date:

Ryan Seligman 7/18/2023

**APPENDIX D**  
Qualifications of Conclusions

## QUALIFICATIONS OF RECOMMENDATIONS

The findings, conclusions and/or recommendations presented in this report represent our professional opinions concerning the environmental conditions at the site. The opinions presented are relative to the dates of our site work and should not be relied on to represent conditions at later dates or at locations not investigated. The opinions included herein are based on information provided to us, the data obtained at the specific time of the investigation, and our experience with similar sites.

Should conditions or events change, NOVA should be retained to evaluate those changes and their impact to the subject site.

This report is intended for the sole use of **Indian River County Public Works Department** only. The scope of work performed for this study was prepared for **Indian River County Public Works Department** based on the applicable ASTM standard. Use of this report or the findings, conclusions and/or recommendations by others will be at the sole risk of the user. NOVA is not responsible or liable for the interpretation by others of the data in this report, nor their conclusions, recommendations or opinions.

Our professional services have been performed, our findings obtained, our conclusions derived, and our recommendations prepared in accordance with generally accepted environmental assessment principles and practices in the industry.

# **APPENDIX E**

## Certifications

United States Department of Commerce  
National Institute of Standards and Technology



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# Certificate of Accreditation to ISO/IEC 17025:2017

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NVLAP LAB CODE: 200703-0

**Arrowhead Technologies, L.L.C.**  
Clearwater, FL

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).

2023-01-01 through 2023-12-31

Effective Dates



A handwritten signature in black ink, appearing to read 'John S. Lamm', written over a horizontal line.

For the National Voluntary Laboratory Accreditation Program



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855.60.CERTIFY

1775 W. 55th Avenue  
Denver, Colorado 80221  
United States of America

# CERTIFICATE OF ACHIEVEMENT

This certificate is awarded to:

## JAMEY COTE

In recognition of satisfactory completion of the EPA-approved annual asbestos refresher training provided in accordance with the Model Accreditation Plan (MAP) (40 CFR Part 763, Subpart E, Appendix C) and AHERA of the Toxic Substances Control Act (TSCA) entitled:

### BUILDING INSPECTOR

COURSE COMPLETION:	JULY 10, 2023
EXAMINATION DATE:	JULY 10, 2023
EXPIRATION DATE:	JULY 10, 2024
COURSE HOURS:	4.0



*Danaya N. Wilson*

CEO & Training Program Manager

Credential License ID:  
77421355

*Aaron Hix*

Instructor

CHC Training Certificate No.  
R23-0792-AI-O



Verify this Certificate



Renew this Certificate



Ron DeSantis, Governor

Melanie S. Griffin, Secretary



**STATE OF FLORIDA**  
**DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**ASBESTOS LICENSING UNIT**

THE ASBESTOS CONSULTANT HEREIN IS LICENSED UNDER THE  
PROVISIONS OF CHAPTER 469, FLORIDA STATUTES

**SCHMALTZ, LAWRENCE GERARD**

4524 OAK FAIR BLVD, SUITE 200  
NOVA ENGINEERING AND ENVIRONMENTAL  
TAMPA FL 33610

**LICENSE NUMBER: AX0000009**

**EXPIRATION DATE: NOVEMBER 30, 2024**

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Ron DeSantis, Governor

Julie I. Brown, Secretary



**STATE OF FLORIDA**  
**DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

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**NOVA ENGINEERING AND ENVIRONMENTAL, LLC**

LAWRENCE GERARD SCHMALTZ  
4524 OAK FAIR BLVD SUITE 200  
TAMPA FL 33610

**LICENSE NUMBER: ZA308**

**EXPIRATION DATE: NOVEMBER 30, 2023**

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