



MATRIX

Health & Safety Consultants, L.L.C.

March 20, 2023

Troy D. Powell, MPA, CCEO, CZO | Manager
Housing & Neighborhood Development
City of Greensboro

Subject: Survey to Identify Asbestos-Containing Materials
Raymond S. King Apartments
1004 John Dimrey Drive
Greensboro, North Carolina 27406
Matrix Job Number: 210750

Dear Mr. Powell:

Matrix Health and Safety Consultants, L.L.C. (Matrix) is pleased to present this report of the survey to identify asbestos-containing materials at 1004 John Dimrey Drive in Greensboro, North Carolina. This report presents known project information, survey procedures and survey results.

Matrix understands that the 3 building, 12-unit apartment complex is scheduled for renovation in the near future. In order to facilitate the renovation of the property, Matrix performed a survey to determine the existence of asbestos-containing materials.

Apartment units are numbered A through M. All units were vacant at the time of the survey. The sampling of roofing materials was included in the scope of the project.

SURVEY PROCEDURES

The survey was performed on March 14, 2023, by Matrix's Inspector Gregg Heppert (North Carolina Asbestos Inspector No. 11702) and Brian Gustafson (North Carolina Asbestos Inspector No. 12002). The survey began with a walk-through of each unit observing accessible areas for the presence of suspect asbestos-containing materials. Both friable and nonfriable suspect asbestos-containing materials were considered during the course of the survey. Friable materials are those materials which can be pulverized or reduced to powder by hand pressure. A sampling strategy was determined and bulk samples of suspect ACM were obtained. Suspect ACM's were grouped based on material homogeneity. A homogeneous area is an area which contains materials that seem by texture, color and wear to be uniform and applied during the same general time period.

To determine the presence or absence of asbestos content in the suspect materials, samples were collected and transported to SAI Inc., located in Greensboro, North Carolina under chain-of-custody documentation for laboratory analysis. The collected samples were placed into individual sample containers, sealed and a unique identification number was assigned to the sample container at the time of collection. The identification included the sample collection date and location. This information was logged on our Asbestos Bulk Sampling Record and submitted to the laboratory.

ANALYSIS PROCEDURES AND RESULTS

The collected asbestos samples were analyzed using Polarized Light Microscopy (PLM) in conjunction with dispersion staining techniques using EPA Method 600/M4-82-020 per 40 CFR 763. The bulk laboratory analysis provided the asbestos content (positive or negative), percentage of asbestos, asbestos type and identification of other non-asbestos fibers. A material is considered to be asbestos-containing if greater than 1% asbestos is found in the material.

Asbestos-Containing Material Summary

Asbestos was not detected in samples collected from the subject units. Suspect asbestos-containing building materials sampled included ceiling texture, drywall and joint compound, floor tile, floor tile mastic, wall glue, attic insulation, roof shingles, roof felt and exterior caulk. No suspect materials were observed in the crawlspace.

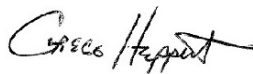
QUALIFICATIONS

This report summarizes Matrix's evaluation of the conditions observed at the subject building during the course of the survey. Our findings are based upon our observations at the building and analyses of the samples obtained at the time of this survey. Additional asbestos-containing materials may exist (undetected) in other portions of the building due to inaccessibility or due to an undetectable change in materials. Any conditions discovered which deviate from the data contained in this report should be presented to us for our evaluation.

Matrix appreciates the opportunity to have provided these services. We would be glad to discuss any of the results contained in this report, at your convenience. If there are any questions concerning this report or results, please contact us.

Sincerely,

MATRIX HEALTH AND SAFETY CONSULTANTS, L.L.C.



Gregg Heppert
Project Principal

Attachments: Site Photographs
Laboratory Analysis Report

Site Photographs



Example of roof shingles and felt.





Example of wall glue and drywall/patch throughout each unit.



Example of flooring throughout each unit.



Example of flooring throughout each unit.



Example of flooring throughout each unit.



Example of flooring throughout each unit.



Example of flooring throughout each unit.



Example of flooring throughout each unit.



Example of exterior caulking and interior ceiling texture.

Laboratory Analysis Report



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



Customer: Matrix Health & Safety Consultants
2900-B Yonkers Rd.
Raleigh, NC 27604

Attn: Brian Gustafson
Gregg Heppert

Lab Order ID: 10018599
Analysis: PLM
Date Received: 03/14/2023
Date Reported: 03/15/2023

Project: 1004 John Dimrey Dr. Greensboro, NC

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
1004A-1	Ceiling texture	None Detected		100% Other	Cream, White Non-Fibrous Homogeneous
10018599_0001					Crushed
1004A-2	Drywall + patch	None Detected		100% Other	White Non-Fibrous Homogeneous
10018599_0002	<i>drywall: none detect; joint compond: none detect</i>				Crushed
1004A-3 - A	12x12 tan molded	None Detected		100% Other	Tan, Brown Non-Fibrous Homogeneous
10018599_0003	<i>tile</i>				Dissolved
1004A-3 - B	12x12 tan molded	None Detected		100% Other	Orange Non-Fibrous Homogeneous
10018599_0055	<i>mastic</i>				Dissolved
1004B-1	Ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10018599_0004					Crushed
1004B-2	Drywall + patch	None Detected		100% Other	White Non-Fibrous Homogeneous
10018599_0005	<i>drywall: none detect; joint compond: none detect</i>				Crushed
1004B-3 - A	12x12 white w/ gray FT + M	None Detected		100% Other	Tan, White Non-Fibrous Homogeneous
10018599_0006	<i>tile</i>				Dissolved
1004B-3 - B	12x12 white w/ gray FT + M	None Detected		100% Other	Orange Non-Fibrous Homogeneous
10018599_0056	<i>mastic</i>				Dissolved

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Heather Boykin (79)

Analyst

Approved Signatory



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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
1004B-4 - A	12x12 brown eggshell FT + M	None Detected		100% Other	Tan, Cream Non-Fibrous Homogeneous
10018599_0007	tile				Dissolved
1004B-4 - B	12x12 brown eggshell FT + M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0057	mastic				Dissolved
1004C-1	Ceiling texture	None Detected		100% Other	Cream Non-Fibrous Homogeneous
10018599_0008					Crushed
1004C-2	Drywall + patch	None Detected		100% Other	White Non-Fibrous Homogeneous
10018599_0009	drywall: none detect; joint compond: none detect				Crushed
1004C-3 - A	12x12 brown eggshell FT + M	None Detected		100% Other	Cream, Tan Non-Fibrous Homogeneous
10018599_0010	tile				Dissolved
1004C-3 - B	12x12 brown eggshell FT + M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0059	mastic - small sample				Dissolved
1004C-4 - A	12x12 tan w/ brown FT + M	None Detected		100% Other	Tan, Brown Non-Fibrous Homogeneous
10018599_0058	tile				Dissolved
1004C-4 - B	12x12 tan w/ brown FT + M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0060	mastic				Dissolved

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Lab Sample ID	Lab Notes				Treatment
1004C-4 - A		None Detected		100% Other	Brown, Tan Non-Fibrous Homogeneous
10018599_0078	duplicate sample - tile				Dissolved
1004C-4 - B		None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0079	duplicate sample - mastic				Dissolved
1004D-1	Ceiling texture	None Detected		100% Other	Cream, White Non-Fibrous Homogeneous
10018599_0011					Crushed
1004D-2	Drywall + patch	None Detected		100% Other	White, Gray Non-Fibrous Homogeneous
10018599_0012	drywall: none detect; joint compound: none detect				Crushed
1004D-3 - A	12x12 white with gray FT + M	None Detected		100% Other	Gray, White Non-Fibrous Homogeneous
10018599_0013	tile 1				Dissolved
1004D-3 - B	12x12 white with gray FT + M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0061	mastic 1				Dissolved
1004D-3 - C	12x12 white with gray FT + M	None Detected		100% Other	Tan, White Non-Fibrous Homogeneous
10018599_0062	tile 2				Dissolved
1004E-1	Ceiling texture	None Detected		100% Other	Cream, White Non-Fibrous Homogeneous
10018599_0014					Crushed

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Lab Sample ID	Lab Notes				Treatment
1004E-2	Drywall + patch	None Detected		100% Other	White, Gray Non-Fibrous Homogeneous
10018599_0015	<i>drywall: none detect; joint compound: none detect</i>				Crushed
1004E-3 - A	12x12 tan molded	None Detected		100% Other	Tan Non-Fibrous Homogeneous
10018599_0016	<i>tile</i>				Dissolved
1004E-3 - B	12x12 tan molded	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0063	<i>mastic - very small sample</i>				Dissolved
1004E-4	12x12 brown eggshell	Not Submitted			
10018599_0017					
1004E-5 - A	12x12 bright white FT + M	None Detected		100% Other	White, Gray Non-Fibrous Homogeneous
10018599_0018	<i>tile</i>				Dissolved
1004E-5 - B	12x12 bright white FT + M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0064	<i>mastic - very small sample</i>				Dissolved
1004F-1	Ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10018599_0019					Crushed
1004F-2	Drywall + patch	None Detected		100% Other	White, Gray Non-Fibrous Homogeneous
10018599_0020	<i>mastic - very small sample</i>				Crushed

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Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888



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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
1004F-3 - A	12x12 white with pink FT + M	None Detected		100% Other	Tan Non-Fibrous Homogeneous
10018599_0021	tile				Dissolved
1004F-3 - B	12x12 white with pink FT + M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0065	mastic				Dissolved
1004F-4 - A	12x12 white with pink FT + M	None Detected		100% Other	Tan, Gray Non-Fibrous Homogeneous
10018599_0022	tile				Dissolved
1004F-4 - B	12x12 white with pink FT + M	None Detected		100% Other	Orange Non-Fibrous Homogeneous
10018599_0066	mastic				Dissolved
1004G-1	Ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10018599_0023					Crushed
1004G-2	Drywall + patch	None Detected		100% Other	White, Gray Non-Fibrous Homogeneous
10018599_0024	drywall: none detect; joint compound: none detect				Crushed
1004G-3 - A	12x12 white with pink FT + M	None Detected		100% Other	Tan Non-Fibrous Homogeneous
10018599_0025	tile				Dissolved
1004G-3 - B	12x12 white with pink FT + M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0067	mastic				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
1004G-4 - A	12x12 white with FT + M	None Detected		100% Other	White Non-Fibrous Homogeneous
10018599_0026	tile				Dissolved
1004G-4 - B	12x12 white with FT + M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0068	mastic				Dissolved
1004H-1	Ceiling texture	None Detected		100% Other	Cream Non-Fibrous Homogeneous
10018599_0027					Crushed
1004H-2	Drywall + patch	None Detected		100% Other	White, Gray Non-Fibrous Homogeneous
10018599_0028	<i>drywall: none detect; joint compound: none detect</i>				Crushed
1004H-3 - A	12x12 white with pink FT + M	None Detected		100% Other	Tan Non-Fibrous Homogeneous
10018599_0029	tile				Dissolved
1004H-3 - B	12x12 white with pink FT + M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0069	mastic - very small sample				Dissolved
1004J-1	Ceiling texture	None Detected		100% Other	Cream, White Non-Fibrous Homogeneous
10018599_0030					Crushed
1004J-2	Drywall + patch	None Detected		100% Other	Gray, White Non-Fibrous Homogeneous
10018599_0031	<i>drywall: none detect; joint compound: none detect</i>				Crushed

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Lab Sample ID	Lab Notes				Treatment
1004J-3 - A	12x12 multicolored FT + M	None Detected		100% Other	White, Gray Non-Fibrous Homogeneous
10018599_0032	tile 1				Dissolved
1004J-3 - B	12x12 multicolored FT + M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0070	mastic 1				Dissolved
1004J-3 - C	12x12 multicolored FT + M	None Detected		100% Other	Tan, White Non-Fibrous Homogeneous
10018599_0071	tile 2				Dissolved
1004J-3 - D	12x12 multicolored FT + M	None Detected		100% Other	Orange Non-Fibrous Homogeneous
10018599_0072	mastic 2				Dissolved
1004J-4 - A	12x12 multicolored FT + M	None Detected		100% Other	Brown, Tan Non-Fibrous Homogeneous
10018599_0033	tile				Dissolved
1004J-4 - B	12x12 multicolored FT + M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0073	mastic				Dissolved
1004J-5	Wall glue	None Detected		100% Other	Tan Non-Fibrous Homogeneous
10018599_0034					Dissolved
1004K-1	Ceiling texture	None Detected		100% Other	Cream, White Non-Fibrous Homogeneous
10018599_0035					Crushed

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Lab Sample ID	Lab Notes				Treatment
1004K-2	Drywall + patch	None Detected		100% Other	Gray, White Non-Fibrous Homogeneous
10018599_0036	<i>drywall: none detect; joint compound: none detect</i>				Crushed
1004K-3 - A	12x12 multicolored FT + M	None Detected		100% Other	White, Tan Non-Fibrous Homogeneous
10018599_0037	<i>tile</i>				Dissolved
1004K-3 - B	12x12 multicolored FT + M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0074	<i>mastic</i>				Dissolved
1004K-4	Wall glue	None Detected		100% Other	Tan Non-Fibrous Homogeneous
10018599_0038					Dissolved
1004L-1	Ceiling texture	None Detected		100% Other	Cream, White Non-Fibrous Homogeneous
10018599_0039					Crushed
1004L-2	Drywall + patch	Not Submitted			
10018599_0040					
1004L-3 - A	12x12 tan molded	None Detected		100% Other	Tan, White Non-Fibrous Homogeneous
10018599_0041	<i>tile</i>				Dissolved
1004L-3 - B	12x12 tan molded	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0075	<i>mastic - very small sample</i>				Dissolved

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Lab Sample ID	Lab Notes				Treatment
1004M-1	Ceiling texture	None Detected		100% Other	Cream Non-Fibrous Homogeneous
10018599_0042					Crushed
1004M-2	Drywall + patch	None Detected		100% Other	White, Gray Non-Fibrous Homogeneous
10018599_0043	<i>drywall: none detect; joint compound: none detect</i>				Crushed
1004M-3 - A	12x12 white with gray	None Detected		100% Other	White, Gray Non-Fibrous Homogeneous
10018599_0044	<i>tile</i>				Dissolved
1004M-3 - B	12x12 white with gray	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0076	<i>mastic - very small sample</i>				Dissolved
1004M-4 - A	12x12 brown eggshell FT + M	None Detected		100% Other	Tan Non-Fibrous Homogeneous
10018599_0045	<i>tile</i>				Dissolved
1004M-4 - B	12x12 brown eggshell FT + M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018599_0077	<i>mastic - very small sample</i>				Dissolved
1004-1	Roof shingles	None Detected	30% Fiber Glass	70% Other	Black, Gray Non-Fibrous Homogeneous
10018599_0046					Dissolved
1004-2	Roof shingles	None Detected	30% Fiber Glass	70% Other	Black, Gray Non-Fibrous Homogeneous
10018599_0047					Dissolved

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 Raleigh, NC 27604

Attn: Brian Gustafson
 Gregg Heppert

Lab Order ID: 10018599

Analysis: PLM

Date Received: 03/14/2023

Date Reported: 03/15/2023

Project: 1004 John Dimrey Dr. Greensboro, NC

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
1004-3	Roof shingles	None Detected	30% Fiber Glass	70% Other	Black, White Non-Fibrous Homogeneous
10018599_0048					Dissolved
1004-4	Roof felt	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
10018599_0049					Dissolved
1004-5	Roof felt	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
10018599_0050					Dissolved
1004-6	Roof felt	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
10018599_0051					Dissolved
1004-7	Exterior caulk	None Detected		100% Other	Cream, Red Non-Fibrous Homogeneous
10018599_0052					Ashed
1004-8	Exterior caulk	None Detected		100% Other	White, Cream Non-Fibrous Homogeneous
10018599_0053					Ashed
1004-9	Exterior caulk	None Detected		100% Other	Cream, Red Non-Fibrous Homogeneous
10018599_0054					Ashed

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Heather Boykin (79)

Analyst

Approved Signatory



Scientific Analytical Institute
 4604 Dundas Dr. Greensboro, NC 27407
 Phone: 336.292.3888 Fax: 336.292.3313
 www.sailab.com lab@sailab.com

Lab Use Only
 Lab Order ID: 10018597
 Client Code: _____

Company Contact Information	
Company: <u>Matrix Health Safety</u>	Contact: <u>Gregg Hoppert</u>
Address: <u>2900 Yonkers Rd</u> <u>Raleigh NC 27604</u>	Phone <input type="checkbox"/> : <u>Brian Gustafson</u>
	Fax <input type="checkbox"/> :
	Email <input type="checkbox"/> : <u>BAG@MatrixHS.com</u> <u>Gregg@MatrixHse.com</u>

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

Billing/Invoice Information	Turn Around Times	
Company: <u>same</u>	90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
Contact:	3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
Address:	6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
	12 Hours <input type="checkbox"/>	120 Hours <input type="checkbox"/>
	24 Hours <input checked="" type="checkbox"/>	144+ Hours <input type="checkbox"/>

PO Number: _____

Project Name/Number: 1004 JOHN DIMREY DR.
GREENSBORO, NC

Sample ID #	Volume/Area	Comments
<u>1004A-1</u>	<u>ceiling texture</u>	
<u>1004A-2</u>	<u>Drywall + Patch</u>	
<u>1004A-3</u>	<u>12x12 TAN molded</u>	<u>Ft-1 threshold</u>
<u>1004B-1</u>	<u>ceiling texture</u>	
<u>1004B-2</u>	<u>Drywall + Patch</u>	
<u>1004B-3</u>	<u>12x12 white w/ Gray trim</u>	<u>Kitchen Ft-2 Foyer</u>
<u>1004B-4</u>	<u>12x12 Brown eggshell</u>	<u>Ft-2 Bath Ft-3 Laundry</u>

Total # of Samples _____

Relinquished by	Date/Time	Received by	Date/Time
	<u>3/14/2023</u>		<u>3/14</u> <u>1:45pm</u>

Accepted
 Rejected



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Lab Use Only
 Lab Order ID: _____
 Client Code: _____

1004 JOHN DIMICKY Dr.

Sample ID #	Description/Location	Volume/Area	Comments
1004 C-1	ceiling texture		
1004 C-2	Dry wall & Patel		
1004 C-3	12x12 Brown Eggshell Ft. in	Ft-3	Kitchen, Foyer
1004 C-4	12x12 TAN w/ Brown Ft. in	Ft-4	Bath, Laundry
1004 D-1	ceiling texture		
1004 D-2	Dry wall & Patel		
1004 D-3	12x12 white w gray Ft. in	Ft-2	Kitchen, Foyer
1004 E-1	ceiling texture		
1004 E-2	Dry wall & Patel		
1004 E-3	12x12 Tan mottled	Ft-1	Foyer
1004 E-4	12x12 Brown Eggshell	Ft-3	Kitchen
1004 E-5	12x12 Bright white Ft. in	Ft-5	Bath
1004 F-1	ceiling texture		
1004 F-2	Dry wall & Patel		
1004 F-3	12x12 white w/ Pink Ft. in	Ft. in	Ft-4 Foyer
1004 F-4	" "	" "	Kitchen
1004 G-1	ceiling texture		
1004 G-2	Dry wall & Patel		
1004 G-3	12x12 white w/ Pink Ft. in	Ft-6	Kitchen, Foyer
1004 G-4	12x12 white w/ Gray Ft. in	Ft-2	Bath
1004 H-1	ceiling texture		
1004 H-2	Dry wall & Patel		
1004 H-3	12x12 white w/ Pink Ft. in	Ft-6	throughout
1004 J-1	ceiling texture		
1004 J-2	Dry wall & Patel		
1004 J-3	12x12 multicolored Ft. in	throughout	Ft-7
1004 J-4	" "	" "	
1004 J-5	wall glue	Bath	
1004 K-1	ceiling texture		
1004 K-2	Dry wall & Patel		
1004 K-3	12x12 multicolored Ft. in	Ft-7	
1004 K-4	wall glue	Bath	



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 Client Code: _____

1004 JOHN DIMREY Dr.

Sample ID #	Description/Location	Volume/Area	Comments
1004 L-1	ceiling fix lure		
1004 L-2	Dry wall i Patch		
1004 L-3	12x12 tan molder	Ft.-1	throughout
1004 m-1	ceiling fix lure		
1004 m-2	Dry wall i Patch		
1004-m-3	12x12 Grey White w Gray	Ft. 2	
1004 m-4	12x12 Brown Eggshell	Ft. 3	
1004-1	Roof Sizing		L
1004-2	"		C
1004-3	"		R
1004-4	Roof felt		L
1004-5	"		C
1004-6	"		R
1004-7	exterior caulk		L
1004-8	"		C
1004-9	"		R



MATRIX

Health & Safety Consultants, L.L.C.

March 15, 2023

Troy D. Powell, MPA, CCEO, CZO | Manager
Housing & Neighborhood Development
City of Greensboro

Attn: Eric Mioduski

Subject: Survey to Identify Asbestos-Containing Materials
Raymond S. King Apartments
1028 John Dimrey Drive
Greensboro, North Carolina 27406
Matrix Job Number: 210750

Dear Mr. Powell:

Matrix Health and Safety Consultants, L.L.C. (Matrix) is pleased to present this report of the survey to identify asbestos-containing materials at 1028 John Dimrey Drive in Greensboro, North Carolina. This report presents known project information, survey procedures and survey results.

Matrix understands that the 3 building, 12-unit apartment complex is scheduled for renovation in the near future. In order to facilitate the renovation of the property, Matrix performed a survey to determine the existence of asbestos-containing materials.

Apartment units are numbered A through M. All units were vacant at the time of the survey. The sampling of roofing materials was included in the scope of the project.

SURVEY PROCEDURES

The survey was performed on March 8, 2023, by Matrix's Inspector Gregg Heppert (North Carolina Asbestos Inspector No. 11702) and Brian Gustafson (North Carolina Asbestos Inspector No. 12002). The survey began with a walk-through of each unit observing accessible areas for the presence of suspect asbestos-containing materials. Both friable and nonfriable suspect asbestos-containing materials were considered during the course of the survey. Friable materials are those materials which can be pulverized or reduced to powder by hand pressure. A sampling strategy was determined and bulk samples of suspect ACM were obtained. Suspect ACM's were grouped based on material homogeneity. A homogeneous area is an area which contains materials that seem by texture, color and wear to be uniform and applied during the same general time period.

To determine the presence or absence of asbestos content in the suspect materials, samples were collected and transported to SAI Inc., located in Greensboro, North Carolina under chain-of-custody documentation for laboratory analysis. The collected samples were placed into individual sample containers, sealed and a unique identification number was assigned to the sample container at the time of collection. The identification included the sample collection date and location. This information was logged on our Asbestos Bulk Sampling Record and submitted to the laboratory.

ANALYSIS PROCEDURES AND RESULTS

The collected asbestos samples were analyzed using Polarized Light Microscopy (PLM) in conjunction with dispersion staining techniques using EPA Method 600/M4-82-020 per 40 CFR 763. The bulk laboratory analysis provided the asbestos content (positive or negative), percentage of asbestos, asbestos type and identification of other non-asbestos fibers. A material is considered to be asbestos-containing if greater than 1% asbestos is found in the material.

Asbestos-Containing Material Summary

Asbestos was not detected in samples collected from the subject units. Suspect asbestos-containing building materials sampled included ceiling texture, drywall and joint compound, floor tile, floor tile mastic, attic insulation, roof shingles, roof felt and exterior caulk. No suspect materials were observed in the crawlspace.

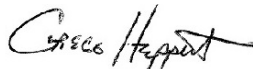
QUALIFICATIONS

This report summarizes Matrix's evaluation of the conditions observed at the subject building during the course of the survey. Our findings are based upon our observations at the building and analyses of the samples obtained at the time of this survey. Additional asbestos-containing materials may exist (undetected) in other portions of the building due to inaccessibility or due to an undetectable change in materials. Any conditions discovered which deviate from the data contained in this report should be presented to us for our evaluation.

Matrix appreciates the opportunity to have provided these services. We would be glad to discuss any of the results contained in this report, at your convenience. If there are any questions concerning this report or results, please contact us.

Sincerely,

MATRIX HEALTH AND SAFETY CONSULTANTS, L.L.C.



Gregg Heppert
Project Principal

Attachments: Site Photographs
Laboratory Analysis Report

Site Photographs



Example of ceiling texture throughout each unit.



Example of drywall and patch throughout each unit.



Example of attic insulation throughout each unit.



Example of flooring throughout each unit.



Example of flooring throughout each unit.



Example of flooring throughout each unit.

Laboratory Analysis Report



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



Customer: Matrix Health & Safety Consultants
2900-B Yonkers Rd.
Raleigh, NC 27604

Attn: Gregg Heppert

Lab Order ID: 10018139

Analysis: PLM

Date Received: 03/08/2023

Project: 1028 John Dimrey Dr. Greensboro

Date Reported: 03/09/2023

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
1028-1	Roof shingles	None Detected	20% Fiber Glass	80% Other	Gray, Black Non-Fibrous Homogeneous
10018139_0001					Dissolved
1028-2	Roof shingles	None Detected	20% Fiber Glass	80% Other	Gray, Black Non-Fibrous Homogeneous
10018139_0002					Dissolved
1028-3	Roof shingles	None Detected	20% Fiber Glass	80% Other	Gray, Black Non-Fibrous Homogeneous
10018139_0003					Dissolved
1028-4	Roof felt	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
10018139_0004					Dissolved, Teased
1028-5	Roof felt	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
10018139_0005					Dissolved, Teased
1028-6	Roof felt	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
10018139_0006					Dissolved, Teased
1028-7	Exterior caulk	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0007					Ashed
1028-8	Exterior caulk	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0008					Ashed

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Byron Stroble (56)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



Customer: Matrix Health & Safety Consultants
2900-B Yonkers Rd.
Raleigh, NC 27604

Attn: Gregg Heppert

Lab Order ID: 10018139

Analysis: PLM

Date Received: 03/08/2023

Project: 1028 John Dimrey Dr. Greensboro

Date Reported: 03/09/2023

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
1028-9	Exterior caulk	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0009					Ashed
A-1	Ceiling texture	None Detected	10% Cellulose	90% Other	White Non-Fibrous Heterogeneous
10018139_0010	<i>drywall: none detected, joint compound: none detected</i>				Teased
A-2	Drywall & patch	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0011					Teased
A-3 - A	12x12 tan w/ gray & brown FT &M	None Detected		100% Other	Tan Non-Fibrous Homogeneous
10018139_0012	<i>tile</i>				Dissolved
A-3 - B	12x12 tan w/ gray & brown FT &M	None Detected	20% Cellulose	80% Other	Black Non-Fibrous Homogeneous
10018139_0047	<i>mastic</i>				Dissolved
A-4	12x12 tan w/ gray & brown FT &M	None Detected		100% Other	Tan Non-Fibrous Homogeneous
10018139_0013	<i>tile only</i>				Dissolved
B-1	Ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0014					Teased
B-2	Drywall & patch	None Detected	10% Cellulose	90% Other	White Non-Fibrous Heterogeneous
10018139_0015	<i>drywall: none detected, joint compound: none detected</i>				Teased

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Byron Stroble (56)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
 EPA Method: 600/R-93/116 and
 40 CFR, Part 763, Subpart E, App.E



Customer: Matrix Health & Safety Consultants
 2900-B Yonkers Rd.
 Raleigh, NC 27604

Attn: Gregg Heppert

Lab Order ID: 10018139

Analysis: PLM

Date Received: 03/08/2023

Date Reported: 03/09/2023

Project: 1028 John Dimrey Dr. Greensboro

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
B-3 - A	12x12 w/ tile w/ gray FT &M	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0016	tile				Dissolved
B-3 - B	12x12 w/ tile w/ gray FT &M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018139_0048	mastic				Dissolved
B-4 - A	12x12 w/ tile w/ gray FT &M	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0017	tile				Dissolved
B-4 - B	12x12 w/ tile w/ gray FT &M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018139_0049	mastic				Dissolved
B-5 - A	12x12 Brown molded FT &M	None Detected		100% Other	Brown Non-Fibrous Homogeneous
10018139_0018	tile				Dissolved
B-5 - B	12x12 Brown molded FT &M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018139_0050	mastic				Dissolved
C-1	Ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0019					Teased
C-2	Drywall & patch	None Detected	10% Cellulose	90% Other	Brown, White Non-Fibrous Heterogeneous
10018139_0020	<i>drywall: none detected, joint compound: none detected</i>				Teased

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Byron Stroble (56)

Analyst

Approved Signatory

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



Customer: Matrix Health & Safety Consultants
2900-B Yonkers Rd.
Raleigh, NC 27604

Attn: Gregg Heppert

Lab Order ID: 10018139

Analysis: PLM

Date Received: 03/08/2023

Date Reported: 03/09/2023

Project: 1028 John Dimrey Dr. Greensboro

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
C-3	Attic inculation	None Detected	95% Fiber Glass	5% Other	White Fibrous Homogeneous
10018139_0021					Teased
D-1	Ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0022					Teased
D-2	Drywall & patch	None Detected	10% Cellulose	90% Other	Brown, White Non-Fibrous Heterogeneous
10018139_0023	<i>drywall: none detected, joint compound: none detected</i>				Teased
E-1	Ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0024					Teased
E-2	Drywall & patch	None Detected	10% Cellulose	90% Other	Brown, White Non-Fibrous Heterogeneous
10018139_0025	<i>drywall: none detected, joint compound: none detected</i>				Teased
F-1	Ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0026					Teased
F-2	Drywall & patch	None Detected	10% Cellulose	90% Other	Brown, White Non-Fibrous Heterogeneous
10018139_0027	<i>drywall: none detected, joint compound: none detected</i>				Teased
F-3 - A	12x12 Brown molded Ft & M	None Detected		100% Other	Brown Non-Fibrous Homogeneous
10018139_0028	<i>tile</i>				Dissolved

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



Customer: Matrix Health & Safety Consultants
2900-B Yonkers Rd.
Raleigh, NC 27604

Attn: Gregg Heppert

Lab Order ID: 10018139

Analysis: PLM

Date Received: 03/08/2023

Date Reported: 03/09/2023

Project: 1028 John Dimrey Dr. Greensboro

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
F-3 - B	12x12 Brown molded Ft & M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018139_0051	mastic				Dissolved
G-1	Ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0029					Teased
G-2	Drywall & patch	None Detected	10% Cellulose	90% Other	Brown, White Non-Fibrous Heterogeneous
10018139_0030	<i>drywall: none detected, joint compound: none detected</i>				Teased
H-1	Ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0031					Teased
H-2	Drywall & patch	None Detected	10% Cellulose	90% Other	White, Brown Non-Fibrous Heterogeneous
10018139_0032	<i>drywall: none detected, joint compound: none detected</i>				Teased
H-3	Attic insulation	None Detected	95% Fiber Glass	5% Other	White Fibrous Homogeneous
10018139_0033					Teased
J-1	Ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0034					Teased
J-2	Drywall & patch	None Detected	10% Cellulose	90% Other	Brown, White Non-Fibrous Heterogeneous
10018139_0035	<i>drywall: none detected, joint compound: none detected</i>				Teased

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Analyst

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



Customer: Matrix Health & Safety Consultants
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Raleigh, NC 27604

Attn: Gregg Heppert

Lab Order ID: 10018139

Analysis: PLM

Date Received: 03/08/2023

Date Reported: 03/09/2023

Project: 1028 John Dimrey Dr. Greensboro

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
J-3 - A	12x12 white w/ gray FT & M	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0036	tile				Dissolved
J-3 - B	12x12 white w/ gray FT & M	None Detected		100% Other	Brown Non-Fibrous Homogeneous
10018139_0052	mastic				Dissolved
K-1	Ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0037					Teased
K-2	Drywall & patch	None Detected	10% Cellulose	90% Other	Brown, White Non-Fibrous Heterogeneous
10018139_0038	drywall: none detected, joint compound: none detected				Teased
K-3 - A	12x12 Dark molded FT & M	None Detected		100% Other	Tan Non-Fibrous Homogeneous
10018139_0039	tile				Dissolved
K-3 - B	12x12 Dark molded FT & M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018139_0053	mastic				Dissolved
K-4 - A	12x12 Dark molded FT & M	None Detected		100% Other	Tan Non-Fibrous Homogeneous
10018139_0040	tile				Dissolved
K-4 - B	12x12 Dark molded FT & M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018139_0054	mastic				Dissolved

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Byron Stroble (56)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



Customer: Matrix Health & Safety Consultants
2900-B Yonkers Rd.
Raleigh, NC 27604

Attn: Gregg Heppert

Lab Order ID: 10018139

Analysis: PLM

Date Received: 03/08/2023

Project: 1028 John Dimrey Dr. Greensboro

Date Reported: 03/09/2023

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
L-1	Ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0041					Teased
L-2	Drywall & patch	None Detected	10% Cellulose	90% Other	Brown, White Non-Fibrous Heterogeneous
10018139_0042	<i>drywall: none detected, joint compound: none detected</i>				Teased
L-3 - A	12x12 wood chip pattern FT & M	None Detected		100% Other	Brown Non-Fibrous Homogeneous
10018139_0043	<i>tile</i>				Dissolved
L-3 - B	12x12 wood chip pattern FT & M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018139_0055	<i>mastic - small sample</i>				Dissolved
L-4 - A	12x12 wood chip pattern FT & M	None Detected		100% Other	Brown Non-Fibrous Homogeneous
10018139_0044	<i>tile</i>				Dissolved
L-4 - B	12x12 wood chip pattern FT & M	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10018139_0056	<i>mastic</i>				Dissolved
M-1	Ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10018139_0045					Teased
M-2	Drywall & patch	None Detected	10% Cellulose	90% Other	Brown, White Non-Fibrous Heterogeneous
10018139_0046	<i>drywall: none detected, joint compound: none detected</i>				Teased

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Byron Stroble (56)

Analyst

Approved Signatory



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 4604 Dundas Dr. Greensboro, NC 27407
 Phone: 336.292.3888 Fax: 336.292.3313
 www.sailab.com lab@sailab.com

Lab Use Only
 Lab Order ID: 10018139
 Client Code: _____

Company Contact Information	
Company: Matrix	Contact: Gregg Hise
Address: 2900 Yonkers Rd Raleigh NC	Phone: <input checked="" type="checkbox"/> 919.833.2520
	Fax: <input type="checkbox"/>
	Email: <input checked="" type="checkbox"/> gregg@MatrixHse.com
Billing/Invoice Information	
Company: Same	Turn Around Times
Contact:	90 Min. <input type="checkbox"/> 48 Hours <input type="checkbox"/>
Address:	3 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>
	6 Hours <input type="checkbox"/> 96 Hours <input type="checkbox"/>
	12 Hours <input type="checkbox"/> 120 Hours <input type="checkbox"/>
	24 Hours <input checked="" type="checkbox"/> 144+ Hours <input type="checkbox"/>

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-09	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

PO Number:
Project Name/Number: 1028 JOHN DIMREY DR. Greensboro

Sample ID #	Description/Location	Volume/Area	Comments
1028-1	Roof Shingles		
1028-2	"		
1028-3	"		
1028-4	Roof felt		
1028-5	"		
1028-6	"		
1028-7	Exterior Conk		
1028-8	"		
1028-9	"		

Total # of Samples _____

Relinquished by	Date/Time	Received by	Date/Time
	3/8/23		3/8 145



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Lab Use Only
 Lab Order ID: 150181301
 Client Code: _____

Sample ID #	Description/Location	Volume/Area	Comments
A-1	ceiling texture		
A-2	Dry wall + Patch		
A-3	12x12 Tan w/ Gray + Brown Ftin		1
A-4	" "		
B-1	ceiling texture		
B-2	Dry wall + Patch		
B-3	12x12 white w/ Gray Ftin	3	
B-4	" "	3	
B-5	12x12 Brown molded Ftin	2	
C-1	ceiling texture		
C-2	Dry wall + Patch		
C-3	Attic Insulation		
D-1	ceiling texture		
D-2	Dry wall + Patch	1, 2	
E-1	ceiling texture		
E-2	Dry wall + Patch	2, 3	
F-1	ceiling texture		
F-2	Dry wall + Patch		
F-3	12x12 Brown molded Ftin	2	
G-1	ceiling texture		
G-2	Dry wall + Patch	2	
H-1	ceiling texture		
H-2	Dry wall + Patch		
H-3	Attic Insulation	2	
J-1	ceiling texture		
J-2	Dry wall + Patch		
J-3	12x12 white w/ Gray Ftin	3	
K-1	ceiling texture		
K-2	Dry wall + Patch		
K-3	12x12 Dark molded Ftin	4, 2	
K-4	" "		
L-1	ceiling texture		
L-2	Dry wall + Patch		
L-3	12x12 wood chip Pattern Ftin	5	
L-4	" "		
M-1	ceiling texture		
M-2	Dry wall + Patch	2	