



MATRIX

Health & Safety Consultants, L.L.C.

February 9, 2015

VA Medical Center - Fayetteville
2300 Ramsey Street
Fayetteville, NC 28301

Attention: Ms. Angela Schultz

Subject: Report of Survey to Identify
Asbestos-Containing Materials
VA Medical Center - Fayetteville
5th Floor Renovation Area
Fayetteville, North Carolina

Dear: Ms. Schultz:

Matrix Health and Safety Consultants, L.L.C. (Matrix) is pleased to present this report of the survey to identify asbestos-containing materials in scheduled 5th floor renovation area at the Fayetteville VA Medical Center located in Fayetteville, North Carolina. This report presents known project information, survey procedures, survey results and recommended response actions.

PROJECT INFORMATION

Matrix understands that subject work area surveyed is scheduled for renovations in the near future. In order to facilitate this project, Matrix performed a survey to identify asbestos-containing materials which are required to be removed prior to renovation or demolition activities in accordance with the National Emissions Standards for Hazardous Air Pollutants (NESHAP).

SURVEY PROCEDURES

The survey was performed on January 26, 2015 by Matrix Inspector Todd E. Daugherty (North Carolina Asbestos Inspector No. 11650) and John Pearson (North Carolina Asbestos Inspector No. 12246). The survey began with a walk-through of the subject area observing accessible areas for the presence of suspect asbestos-containing materials (ACM). Both friable and non-friable 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 Scientific Analytical Institute, Inc. 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.

ANALYSIS PROCEDURES

The collected asbestos samples were analyzed using Polarized Light Microscopy (PLM) in conjunction with dispersion staining techniques using EPA Method 600/R-93/116. The bulk laboratory analysis provided the asbestos content (positive or negative), percentage of asbestos, asbestos type and identification of other non-asbestos fibers. The results of the laboratory analysis are presented in the attached Asbestos Bulk Sampling Record.

ASBESTOS SURVEY RESULTS

Fayetteville VA Medical Center – 5th Floor Renovation Area

ASBESTOS-CONTAINING MATERIAL	PERCENT ASBESTOS TYPE OF ASBESTOS	LOCATION
Window Caulk	3% Chrysotile	Throughout 5 th Floor Renovation Area
12" x 12" White w/Gray Spec Floor Tile Mastic	Tile: NAD Mastic: 3% Chrysotile	Corridor 500A and 500B
Multiple Layers Floor Tile and Mastic	3 – 6% Chrysotile	Room 548, 549 and 556
Transite Panel	Assumed	Radiators

ASBESTOS RECOMMENDATIONS

The National Emissions Standard for Hazardous Air Pollutants (NESHAP) requires the removal of asbestos-containing materials likely to be disturbed prior to renovation activities. Matrix recommends removal of the asbestos-containing materials identified in this report prior to beginning renovation or demolition activities which would disturb their integrity. Matrix recommends that asbestos removal be performed by a qualified asbestos abatement contractor, using North Carolina accredited personnel, in accordance with applicable federal, state, and local regulations governing the removal of asbestos-containing materials.


QUALIFICATIONS

This report summarizes Matrix's evaluation of the conditions observed at the subject facility during the course of the facility survey. Our findings are based upon our observations at the facility and analyses of the samples obtained at the time of this survey. Additional asbestos-containing materials may exist (undetected) in other portions of the facility due to inaccessibility or due to an undetectable change in materials. Our survey was limited to the scheduled 5th floor renovation areas. 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.



Todd E. Daugherty
Project Principal
North Carolina Asbestos Inspector No. 11650

Attachments: Asbestos Bulk Sampling Record
 Laboratory Report

ASBESTOS BULK SAMPLING RECORD
Fayetteville VA Medical Center – 5th Floor Renovation Area
Fayetteville, NC

SAMPLE FIELD ID NO.	SAMPLE LOCATION	TYPE OF MATERIAL	TYPE OF ASBESTOS	PERCENTAGE
5VA-01	Room 558	2' x 2' Fitted Pinhole Ceiling Panel	NAD	
5VA-02	Hallway	2' x 2' Fitted Pinhole Ceiling Panel	NAD	
5VA-03	Room 558	Black Water Proofing Mastic	NAD	
5VA-04	Perimeter Walls	Black Water Proofing Mastic	NAD	
5VA-05	Room 558	Plaster	NAD	
5VA-06	Hallway	Plaster	NAD	
5VA-07	Room 558	Wallboard and Patch Compound	NAD	
5VA-08	Room 556	Wallboard and Patch Compound	NAD	
5VA-09	Room 557	12" x 12" Blue Floor Tile and Mastic	Tile: NAD Mastic: NAD	
5VA-10	Room 557	12" x 12" Blue Floor Tile and Mastic	Tile: NAD Mastic: NAD	
5VA-11	Room 558	12" x 12" White w/Brown Spec Floor Tile and Mastic	Tile: NAD Mastic: NAD	
5VA-12	Room 558	12" x 12" White w/Brown Spec Floor Tile and Mastic	Tile: NAD Mastic: NAD	
5VA-13	Room 558	Baseboard Mastic – 4"	NAD	
5VA-14	Room 557	Baseboard Mastic – 4"	NAD	
5VA-15	Room 553 (Multiple Layers)	12" x 12" Tan w/Brown Mottled Floor Tile and Mastic	Tile: NAD Mastic: NAD	
5VA-16	Room 546	12" x 12" Tan w/Brown Mottled Floor Tile and Mastic	Tile: NAD Mastic: NAD	
5VA-17	Room 546A	Sink Mastic	NAD	
5VA-18	Room 546A	Sink Mastic	NAD	
5VA-19	Hallway	Perimeter Mastic Above Ceiling	NAD	
5VA-20	Hallway	Perimeter Mastic Above Ceiling	NAD	
5VA-21	Windows	Window Caulk	Chrysotile	3%
5VA-22	Windows	Window Caulk	Chrysotile	3%
5VA-23	Hallway	Firewall Drywall	NAD	

SAMPLE FIELD ID NO.	SAMPLE LOCATION	TYPE OF MATERIAL	TYPE OF ASBESTOS	PERCENTAGE
5VA-24	Hallway	Firewall Drywall	NAD	
5VA-25	Hallway	Insulation in Firewall	NAD	
5VA-26	Hallway	Insulation in Firewall	NAD	
5VA-27	Above Drop Ceiling	Red Fire Stop	NAD	
5VA-28	Above Drop Sealing	Red Fire Stop	NAD	
5VA-29	Above Drop Ceiling	Gray Duct Mastic	NAD	
5VA-30	Above Drop Ceiling	Gray Duct Mastic	NAD	
5VA-31	Room 546	Baseboard Mastic – 2"	NAD	
5VA-32	Room 546	Baseboard Mastic – 2"	NAD	
5VA-33	Corridor 500A	12" x 12" White w/Gray Spec Floor Tile and Mastic	Chrysotile	Tile: NAD Mastic: 3%
5VA-34	Corridor 500A	12" x 12" White w/Gray Spec Floor Tile and Mastic	Chrysotile	Tile: NAD Mastic: 3%
5VA-35	Room 548	2 nd and 3 rd Layer Floor Tile and Mastic	Chrysotile	Black Layer: 6% Brown Layer: NAD White Layer: NAD Red Layer: 3%
5VA-36	Room 549	2 nd and 3 rd Layer Floor Tile and Mastic	Chrysotile	Black Layer: 6% Brown Layer: NAD White Layer: NAD Red Layer: 3%
5VA-37	Restroom 552	Vinyl Sheet Flooring	NAD	
5VA-38	Restroom 552	Vinyl Sheet Flooring	NAD	
5VA-39	Restroom 552	Peg Board Behind Wall	NAD	
5VA-40	Restroom 552	Peg Board Behind Wall	NAD	
5VA-41	Corridor 500B	Flooring – 2 nd Layer	NAD	
5VA-42	Corridor 500B	Flooring – 2 nd Layer	NAD	
5VA-43	Corridor 500B North	Glue Behind Wood Paneling	NAD	
5VA-44	Corridor 500B North	Glue Behind Wood Paneling	NAD	
	Radiators	Transite Panels		Assumed

NAD = No Asbestos Detected

Analysis Method: PLM with Dispersion Staining



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP Lab Code: 200664-0

Customer: Matrix Health & Safety Consultants **Attn:** Todd Daugherty
2900-B Yonkers Rd.
Raleigh NC 27604

Lab Order ID: 1501435
Analysis ID: 1501435_PLM
Date Received: 1/27/2015
Date Reported: 1/28/2015

Project: Fayetteville VA-5th Floor

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
5VA-01		None Detected	40% Cellulose 40% Mineral Wool	10% Perlite 10% Other	Gray, White Fibrous Heterogeneous
1501435PLM_1					Teased, Ashed
5VA-02		None Detected	40% Cellulose 40% Mineral Wool	10% Perlite 10% Other	Gray, White Fibrous Heterogeneous
1501435PLM_2					Teased, Ashed
5VA-03		None Detected	10% Cellulose	90% Other	White, Black Non Fibrous Heterogeneous
1501435PLM_3					Dissolved
5VA-04		None Detected	10% Cellulose	90% Other	White, Black Non Fibrous Heterogeneous
1501435PLM_4					Dissolved
5VA-05 - A		None Detected		100% Other	Beige Non Fibrous Heterogeneous
1501435PLM_5	beige layer				Crushed
5VA-05 - B		None Detected		100% Other	White Non Fibrous Heterogeneous
1501435PLM_46	white layer				Teased
5VA-06 - A		None Detected		100% Other	Beige Non Fibrous Heterogeneous
1501435PLM_6	beige layer				Crushed
5VA-06 - B		None Detected		100% Other	White Non Fibrous Heterogeneous
1501435PLM_45	white layer				Teased

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Byron Stroble (69)

Analyst

Approved Signatory

P-F-002 r15 1/15/2018

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



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Analysis ID: 1501435_PLM
Date Received: 1/27/2015
Date Reported: 1/28/2015

Project: Fayetteville VA-5th Floor

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
5VA-07		None Detected	10% Cellulose	90% Other	Brown, Beige Non Fibrous Heterogeneous
1501435PLM_7	drywall: none detect; joint compnd: none detect				Teased
5VA-08		None Detected	10% Cellulose	90% Other	Brown, Tan Non Fibrous Heterogeneous
1501435PLM_8	drywall: none detect; joint compnd: none detect				Teased
5VA-09 - A		None Detected		100% Other	Blue Non Fibrous Heterogeneous
1501435PLM_9	floor tile				Dissolved
5VA-09 - B		None Detected		100% Other	Black Non Fibrous Heterogeneous
1501435PLM_47	mastic				Dissolved
5VA-10 - A		None Detected		100% Other	Blue Non Fibrous Heterogeneous
1501435PLM_10	floor tile				Dissolved
5VA-10 - B		None Detected		100% Other	Black Non Fibrous Heterogeneous
1501435PLM_48	mastic				Dissolved
5VA-11 - A		None Detected		100% Other	Beige Non Fibrous Heterogeneous
1501435PLM_11	floor tile				Dissolved
5VA-11 - B		None Detected		100% Other	Brown Non Fibrous Heterogeneous
1501435PLM_49	mastic				Dissolved

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Bulk Asbestos Analysis

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EPA Method: 600/R-93/116 and 600/M4-82-020



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2900-B Yonkers Rd.
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Lab Order ID: 1501435
Analysis ID: 1501435_PLM
Date Received: 1/27/2015
Date Reported: 1/28/2015

Project: Fayetteville VA-5th Floor

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
5VA-12 - A		None Detected		100% Other	Beige Non Fibrous Heterogeneous
1501435PLM_12	floor tile				Dissolved
5VA-12 - B		None Detected		100% Other	Brown Non Fibrous Heterogeneous
1501435PLM_30	mastic				Dissolved
5VA-13 - A		None Detected		100% Other	Gray Non Fibrous Homogeneous
1501435PLM_13	gray layer				Ashed
5VA-13 - B		None Detected		100% Other	Brown Non Fibrous Heterogeneous
1501435PLM_31	mastic				Dissolved
5VA-14		None Detected		100% Other	Brown Non Fibrous Heterogeneous
1501435PLM_14					Dissolved
5VA-15 - A		None Detected		100% Other	Brown Non Fibrous Heterogeneous
1501435PLM_15	mastic 1				Dissolved
5VA-15 - B		None Detected		100% Other	Beige Non Fibrous Heterogeneous
1501435PLM_32	floor tile				Dissolved
5VA-15 - C		None Detected		100% Other	Black Non Fibrous Heterogeneous
1501435PLM_33	mastic 2				Dissolved

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Lab Order ID: 1501435
Analysis ID: 1501435_PLM
Date Received: 1/27/2015
Date Reported: 1/28/2015

Project: Fayetteville VA-5th Floor

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
5VA-16 - A		None Detected		100% Other	Beige Non Fibrous Heterogeneous
1501435PLM_16	floor tile				Dissolved
5VA-16 - B		None Detected		100% Other	Black Non Fibrous Heterogeneous
1501435PLM_34	mastic				Dissolved
5VA-17		None Detected		100% Other	Black Non Fibrous Heterogeneous
1501435PLM_17					Dissolved
5VA-18		None Detected		100% Other	Black Non Fibrous Heterogeneous
1501435PLM_18					Dissolved
5VA-19 - A		None Detected		100% Other	Black Non Fibrous Homogeneous
1501435PLM_19	black layer				Ashed
5VA-19 - B		None Detected		100% Other	Brown Non Fibrous Heterogeneous
1501435PLM_35	mastic				Dissolved
5VA-20 - A		None Detected		100% Other	Black Non Fibrous Homogeneous
1501435PLM_20	black layer				Ashed
5VA-20 - B		None Detected		100% Other	Brown Non Fibrous Heterogeneous
1501435PLM_36	mastic				Dissolved

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Bulk Asbestos Analysis

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Lab Order ID: 1501435
Analysis ID: 1501435_PLM
Date Received: 1/27/2015
Date Reported: 1/28/2015

Project: Fayetteville VA-5th Floor

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
5VA-21		3% Chrysotile		97% Other	White Non Fibrous Heterogeneous
1501435PLM_21					Ashed
5VA-22		3% Chrysotile		97% Other	White Non Fibrous Heterogeneous
1501435PLM_22					Ashed
5VA-23		None Detected	10% Cellulose	90% Other	Brown, White Non Fibrous Heterogeneous
1501435PLM_23	drywall: none detect; joint compnd: none detect				Teased
5VA-24		None Detected	10% Cellulose	90% Other	Brown, White Non Fibrous Heterogeneous
1501435PLM_24	drywall: none detect; joint compnd: none detect				Teased
5VA-25		None Detected	95% Fiber Glass	5% Other	White Fibrous Heterogeneous
1501435PLM_25					Teased
5VA-26		None Detected	95% Fiber Glass	5% Other	White Fibrous Heterogeneous
1501435PLM_26					Teased
5VA-27		None Detected		100% Other	Red Non Fibrous Homogeneous
1501435PLM_27					Ashed
5VA-28		None Detected		100% Other	Red Non Fibrous Homogeneous
1501435PLM_28					Ashed

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Bulk Asbestos Analysis

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Project: Fayetteville VA-5th Floor

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
5VA-29		None Detected		100% Other	Gray Non Fibrous Homogeneous
1501435PLM_29					Ashed
5VA-30		None Detected		100% Other	Gray Non Fibrous Homogeneous
1501435PLM_30					Ashed
5VA-31		None Detected		100% Other	Brown, Tan Non Fibrous Heterogeneous
1501435PLM_31	mixed mastics				Dissolved
5VA-32		None Detected		100% Other	Brown, Tan Non Fibrous Heterogeneous
1501435PLM_32	mixed mastics				Dissolved
5VA-33 - A		None Detected		100% Other	Beige Non Fibrous Heterogeneous
1501435PLM_33	floor tile				Dissolved
5VA-33 - B		3% Chrysotile		97% Other	Black Non Fibrous Heterogeneous
1501435PLM_37	mastic				Dissolved
5VA-34 - A		None Detected		100% Other	Beige Non Fibrous Heterogeneous
1501435PLM_34	floor tile				Dissolved
5VA-34 - B		3% Chrysotile		97% Other	Black Non Fibrous Heterogeneous
1501435PLM_38	mastic				Dissolved

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Bulk Asbestos Analysis

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Lab Order ID: 1501435
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Date Received: 1/27/2015
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Project: Fayetteville VA-5th Floor

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
5VA-35 - A		6% Chrysotile		94% Other	Black Non Fibrous Heterogeneous
1501435PLM_35	black layer				Dissolved
5VA-35 - B		None Detected		100% Other	Brown Non Fibrous Heterogeneous
1501435PLM_39	brown layer				Dissolved
5VA-35 - C		None Detected		100% Other	White Non Fibrous Heterogeneous
1501435PLM_60	white layer				Dissolved
5VA-35 - D		3% Chrysotile		97% Other	Red Non Fibrous Heterogeneous
1501435PLM_61	red layer				Dissolved
5VA-36 - A		6% Chrysotile		94% Other	Black Non Fibrous Heterogeneous
1501435PLM_36	black layer				Dissolved
5VA-36 - B		None Detected		100% Other	Brown Non Fibrous Heterogeneous
1501435PLM_62	brown layer				Dissolved
5VA-36 - C		None Detected		100% Other	White Non Fibrous Heterogeneous
1501435PLM_63	white layer				Dissolved
5VA-36 - D		3% Chrysotile		97% Other	Red Non Fibrous Heterogeneous
1501435PLM_64	red layer				Dissolved

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Project: Fayetteville VA-5th Floor

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
5VA-37		None Detected		100% Other	Pink, Beige Non Fibrous Homogeneous
1501435PLM_37					Ashed
5VA-38 - A		None Detected		100% Other	Pink, Beige Non Fibrous Homogeneous
1501435PLM_38	flooring				Ashed
5VA-38 - B		None Detected		100% Other	Yellow Non Fibrous Homogeneous
1501435PLM_65	mastic				Ashed
5VA-39		None Detected	95% Cellulose	5% Other	Brown Fibrous Heterogeneous
1501435PLM_39					Teased
5VA-40		None Detected	95% Cellulose	5% Other	Brown Fibrous Heterogeneous
1501435PLM_40					Teased
5VA-41 - A		None Detected	10% Cellulose	90% Other	Gray Non Fibrous Heterogeneous
1501435PLM_41	gray layer				Teased
5VA-41 - B		None Detected		100% Other	Yellow, White Non Fibrous Heterogeneous
1501435PLM_66	mastic and leveling compound				Dissolved
5VA-42 - A		None Detected	10% Cellulose	90% Other	Gray Non Fibrous Heterogeneous
1501435PLM_42	gray layer				Teased

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EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP Lab Code: 200664-0

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

Attn: Todd Daugherty

Lab Order ID: 1501435

Analysis ID: 1501435_PLM

Date Received: 1/27/2015

Date Reported: 1/28/2015

Project: Fayetteville VA-5th Floor

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
5VA-42 - B		None Detected		100% Other	Yellow, White Non Fibrous Heterogeneous
1501435PLM_67	mastic and leveling compound				Dissolved
5VA-43 - A		None Detected		100% Other	Pink Non Fibrous Homogeneous
1501435PLM_43	caulk				Ashed
5VA-43 - B		None Detected	95% Cellulose	5% Other	Yellow Fibrous Heterogeneous
1501435PLM_68	insulation				Teased
5VA-44 - A		None Detected		100% Other	Pink Non Fibrous Homogeneous
1501435PLM_44	caulk				Ashed
5VA-44 - B		None Detected	95% Cellulose	5% Other	Brown Fibrous Heterogeneous
1501435PLM_69	insulation				Teased

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Byron Strobe (69)

Analyst

Approved Signatory

P-F-002 v15 1/15/2018

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

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