



PARADIGM
ENVIRONMENTAL, LLC.

Asbestos Bulk Sampling Analysis Report

prepared for:

Mount Saint Mary College
330 Powell Avenue
Newburgh, New York 12550

performed by:

Paradigm Environmental, LLC.
3 Neptune Road – Suite A-18E
Poughkeepsie, New York 12601

performed at:

Guzman Hall
330 Powell Avenue
Newburgh, New York 12550

Wednesday, April 14th, 2021

Paradigm Job #21.2414P



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ENVIRONMENTAL, LLC.

Tuesday, April 20th, 2021

Mount Saint Mary College
330 Powell Avenue
Newburgh, New York 12550
Mr. Douglas Smith
845.569.3645 (phone)
douglas.smith@msmc.edu

Re: Guzman Hall: Asbestos Bulk Sampling & Analytical Services

Paradigm Job Number: 21.241P

The purpose of this letter is to explain the results of the Polarized-Light Microscope (PLM) and Transmission Electron Microscopy (TEM) Bulk Sample Analysis that was performed on Tuesday, April 20th, 2021. A total of seven (7) Friable and eight (8) Non-friable Organically Bound (NOB) Bulk Samples were analyzed.

Field ID Number	Lab ID Number	Sample Description	Asbestos Present?	Analytical Result
1	7448	Gray Thermal System Fitting Insulation (Classroom 2 - above Ceiling)	No	No Asbestos Detected
2	7449	Gray Thermal System Fitting Insulation (Classroom 2 - above Ceiling)	No	No Asbestos Detected
3	7450	Gray Caulking on Metal Window Frame (Exterior - North)	Yes	6.5% Chrysotile Asbestos
4	7451	Gray Caulking on Metal Window Frame (Exterior - North)	Assumed	Analysis Stopped at 1 st Positive
5	7452	Black Tar on Roof Edge (Chapel)	Yes	19% Chrysotile Asbestos



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Field ID Number	Lab ID Number	Sample Description	Asbestos Present?	Analytical Result
6	7453	Black Tar on Roof Edge (Chapel)	Assumed	Analysis Stopped at 1 st Positive
7	7454	Black Roof Field (Chapel)	Yes	14% Chrysotile Asbestos
8	7455	Black Roof Field (Chapel)	Assumed	Analysis Stopped at 1 st Positive
9	7456	Black Roof Field – Middle Layer (Chapel)	No	No Asbestos Detected
10	7457	Black Roof Field – Middle Layer (Chapel)	No	No Asbestos Detected
11	7458	White Roof Field – Bottom Layer (Chapel)	No	No Asbestos Detected
12	7459	White Roof Field – Bottom Layer (Chapel)	No	No Asbestos Detected
13	7460	White Plaster (Chapel – Roof Soffit)	No	No Asbestos Detected
14	7461	White Plaster (Chapel – Roof Soffit)	No	No Asbestos Detected
15	7462	White Plaster (Chapel – Roof Soffit)	No	No Asbestos Detected



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Analysis Notes:

1. As per NYSDOL ICR 56-2.1 (p), an Asbestos Containing Material (ACM) is defined as any material containing greater than one percent (1%) of asbestos, also known as Asbestos Material. Samples determined to be ACM are identified by ***bold/italicized type and are highlighted in yellow.***

If you have any additional questions concerning this report, please do not hesitate to call me at 845.462.1466 or email me at jkunicki@paradigmenvllc.com. Thank you.

Sincerely,

Jack Kunicki

Jack Kunicki
Paradigm Environmental, LLC.



PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1, 198.4 and 198.6

Client: Paradigm Environmental, LLC
Location: MSMC
330 Powell Avenue, Newburgh, New York

Job No: 0874-21B
Page: 1 of 4

Sample Date: 4/14/2021

Sample Received Date: 4/16/2021

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non-Fibrous Matrix Material %
1	7448	Classroom 2 - Above Ceiling	Gray Fibrous Thermal Systems Insulation Fitting	None Detected	0%		Not Required	N/A	Mineral Wool 20%	80%
2	7449	Classroom 2 - Above Ceiling	Gray Fibrous Thermal Systems Insulation Fitting	None Detected	0%		Not Required	N/A	Mineral Wool 20%	80%
3	7450	Exterior - North	Gray Window Frame Caulk	Chrysotile 6.5%	6.5%	✓	Not Required	N/A	None Detected	93.5%
4	7451	Exterior - North	Gray Window Frame Caulk	STOP	POSITIVE	✗	SAMPLE	NOT	ANALYZED	N/A
5	7452	Chapel - at Edge	Black Fibrous Roof Tar	Chrysotile 19%	19%	✓	Not Required	N/A	None Detected	81%
6	7453	Chapel - at Edge	Black Roof Tar	STOP	POSITIVE	✗	SAMPLE	NOT	ANALYZED	N/A
7	7454	Chapel - Top	Black Fibrous Roof Field	Chrysotile 14%	14%	✓	Not Required	N/A	None Detected	86%
8	7455	Chapel - Top	Black Roof Field	STOP	POSITIVE	✗	SAMPLE	NOT	ANALYZED	N/A
9	7456	Chapel - Middle	Black Roof Field	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
10	7457	Chapel - Middle	Black Roof Field	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

✓ NOB (non-friable organically bound) denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

✓ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

✗ denotes sample prepped only by ELAP Method 198.6.

** Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

N/A - Not Applicable

Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.") for EPA 600/M4-82-020 per 40 CFR 763.

ELAP ID No.: 11955

PLM Date Analyzed: 4/20/2021
PLM Analyst: A. Maciejewski
Microscope: Olympus BH-2 #241709

TEM Date Analyzed: 4/20/2021
TEM Analyst: A. Dembski
Microscope: Hitachi 600 AB

Laboratory Results Approved By:
Asbestos Technical Director or Designee

Amy Dembski

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ENVIRONMENTAL SERVICES, INC.

1430-B Millersport Hwy., Williamsville, NY 14221 (Office) 716.775.5777

PLM & TEM BULK ASBESTOS ANALYSIS REPORT **via NYSDOH ELAP Method 198.1, 198.4 and 198.6**

Client: Paradigm Environmental, LLC
Location: MSMC
330 Powell Avenue, Newburgh, New York

Job No: 0874-21B
Page: 2 of 4

Sample Date: 4/14/2021

Sample Received Date: 4/16/2021

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non- Fibrous Matrix Material %
11	7458	Chapel - Roof Field - Bottom	White Fibrous Drywall	None Detected	0%		Not Required	N/A	Cellulose 30%	70%
12	7459	Chapel - Roof Field - Bottom	White Fibrous Drywall	None Detected	0%		Not Required	N/A	Cellulose 30%	70%
13	7460	Chapel - Roof Soffit	White Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
14	7461	Chapel - Roof Soffit	White Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
15	7462	Chapel - Roof Soffit	White Plaster	None Detected	0%		Not Required	N/A	None Detected	100%

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

✓ NOB (non-friable organically bound) denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

√ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

X denotes sample prepped only by ELAP Method 198.6.

** Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

N/A - Not Applicable

Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.") or EPA 600/M4-82-020 per 40 CFR 763.

ELAP ID No.: 11955

PLM Date Analyzed: 4/20/2021
PLM Analyst: A. Maciejewski
Microscope: Olympus BH-2 #241709

TEM Date Analyzed: N/A
TEM Analyst: N/A
Microscope: N/A

Laboratory Results Approved By:
Asbestos Technical Director or Designee

Amy Dembski

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0874-21B 4/20/2021



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CHAIN OF CUSTODY FOR BULK ASBESTOS ANALYSIS

3 Neptune Road, Suite A-18E Poughkeepsie, New York 12601 845.462.1466 (phone) www.paradigmenv.com	Client Name: MSMC	Client Contact: Doug Smith	OFFICE USE ONLY
Client Mailing Address:	Client Telephone Number:	Client Email Address:	Lab Job #: 0874-213
Results To:	PARADIGM, LLC.	Turnaround Time (results by End of Day): 04.20.21	Page: 1 of 2
Date Sampled:	04/14/21	Paradigm, LLC. Job Number: 21.2414P	Date Logged In: 4/16/21
Project Location: 330 Powell Avenue Newburgh NY			Logged In by: AW

Client ID	Lab ID	Sample Description/Location	Color	Type of Material	Material (SF/LF)
1	7442	T&E Fitting (above Ceiling)	Gray	Friskle	Classroom 2
2	-49	" " "	"	"	"
3	-50	Window Frame Caulk	Gray	NOB	Exterior - North
4	-51	" " "	"	"	"
5	-52	Roof Tar @ Edge	Black	NOB	Chapel
6	-53	" " "	"	"	"
7	-54	Roof Field Top	Black	NOB	"
8	-55	" " "	"	"	"
9	-56	" " Middle	"	"	"
10	-57	" " "	"	"	"

Sampled by: 	Date: 04/14/21	All samples will be analyzed by the appropriate New York State Department of Health methods (198.1, 198.4 and 198.6) unless EPA 600/M4/82/020 per 40 CFR 763 and/or EPA 600/R-93/116 methods are requested.	
Relinquished by:	Date:		Analytical Comments: Stop @ 1st Positive for All Homogeneous Samples Please email report to: jkunicki@paradigmenvllc.com
Received at Lab by: Amy Dumbek 4/16/21 0900 UPS	Date:		TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY: 15

