



Environmental Resources Group

3125 Sovereign Drive • Suite B • Lansing, MI • 48911
Phone: 517-999-6020 • Fax: 248-924-3108

December 19, 2024

Brian Lieber
Director of Operations
Okemos Public Schools
4046 Okemos Road
Okemos, Michigan 48864

**RE: Asbestos Sampling, Various
Kinawa Middle School, 1900 Kinawa Drive, Okemos, Michigan
ERG Project No.: 240440**

Dear Mr. Lieber:

Environmental Resources Group, LLC (ERG) is pleased to present the following report of findings. As you know, on September 16 and 23, 2024, ERG collected bulk samples of assumed asbestos containing materials (ACM) within Kinawa Middle School. Samples were collected of materials from the building that may be impacted by classroom carpet replacement.

The samples were collected by a State of Michigan accredited building inspector. The collected samples were submitted to ERG for asbestos analysis by Polarized Light Microscopy (PLM) with dispersion staining. The collected samples were analyzed using the Environmental Protection Agency (EPA) Method 600/R-93/116. The ERG PLM Laboratory maintains current National Voluntary Laboratory Accreditation Program (NVLAP) accreditation (Lab Code 101510-0).

The following materials were found to contain asbestos:

- HA 01 Light green 9" x 9" floor tile with white streaks
- HA 04 Gray floor leveling compound

The following materials were not found to contain asbestos:

- HA 02 Black mastic associated with the 9" x 9" floor tiles
- HA 03 4" black cove molding and associated mastic
- HA 05 Yellow carpet mastic
- HA 06 4" gray cove molding and associated mastic
- HA 07 4" dark brown cove molding and associated mastic



If the ACM tile will be damaged by carpet removal it should be removed by a State of Michigan licensed asbestos abatement contractor in full compliance with the Asbestos Hazard Emergency Response Act (AHERA).

If the ACM tile will not be damaged by carpet removal it may remain. Please be reminded that tradespersons who contact, but do not disturb, the matrix of the ACM floor tile must have completed 72 hour asbestos hazard awareness training in the past 12 months.

The Bulk Sample Log, Bulk Sample Analytical Reports, and Chain of Custody Forms are attached for your records.

Should you have questions or need additional information feel free to contact us.

Sincerely,

Environmental Resources Group

A handwritten signature in blue ink that reads "Kristin Peterson".

Kristin Peterson
Senior Industrial Hygienist

Enc



BULK SAMPLE LOG
SAMPLE ANALYTICAL REPORTS
CHAIN OF CUSTODY FORMS

BULK SAMPLE LOG
ERG Project # 240440

DATE: 9/16/2024 BUILDING: Kinawa Middle School INSPECTOR: Kristin Peterson

HA #	TOTAL FOOTAGE	MATERIAL TYPE	MATERIAL CONDITION	F/NF	MATERIAL ACM (Y/N)	ASBESTOS DETECTED* (Y/N)	SAMPLE #	SAMPLE LOCATION
1	Undetermined	MM	U	NF	Y	Y	1-1	Room 303 at door.
						N/A	1-2	Room 101 at entry.
						N/A	1-3	Room 201 at entry.
HA DESCRIPTION: Light green 9" x 9" floor tile with white streaks					NOTES:			
2	Undetermined	MM	U	NF	N	N	2-1	Room 303 at door.
						N	2-2	Room 101 at entry.
						N	2-3	Room 201 at entry.
HA DESCRIPTION: Black mastic associated with 9" x 9" floor tile					NOTES:			
HA DESCRIPTION:					NOTES:			
HA DESCRIPTION:					NOTES:			
HA DESCRIPTION:					NOTES:			
HA DESCRIPTION:					NOTES:			
HA DESCRIPTION:					NOTES:			
HA DESCRIPTION:					NOTES:			



BULK SAMPLE ANALYTICAL REPORT

Project # 240440

NVLAP Accreditation #101510-0

Client Name: Okemos Public Schools
 Project Name: Kinawa Middle School
 Summary: 4 Collected Bulk Samples, 4 Sample Layers Analyzed.

Date Sampled: 9/16/2024
 Date Submitted: 9/16/2024
 Date Analyzed: 9/18/2024

Client P.O. #: N/A
 C.O.C. #: N/A
 Report Date: 9/19/2024

ERG Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos Containing Portion	Analyst
1-1	1-1	Beige tabular material, 9x9 Floor Tile. (Homogeneous)	Chrysotile 4%	Cellulose fibers 2% Non-fibrous material 94%	KS
2-1	2-1	Black asphaltic material, Mastic associated with 9x9 floor tile. (Homogeneous)	NAD	Cellulose fibers 1% Non-fibrous material 99%	KS
2-2	2-2	Black asphaltic material, Mastic associated with 9x9 floor tile. (Homogeneous)	NAD	Cellulose fibers 2% Non-fibrous material 98%	KS
2-3	2-3	Black asphaltic material, Mastic associated with 9x9 floor tile. (Homogeneous)	NAD	Cellulose fibers 1% Non-fibrous material 99%	KS



Comments

Bulk samples were analyzed using the USEPA Test Method EPA/600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials and EPA-40 CFR Appendix E to Subpart 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples. The constituent percent reported represents an estimate of the area percent of the component. The test report relates only to items tested. This report is not intended to be used as a product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of the laboratory. Individual sample layers are homogeneous, unless otherwise noted.

If no asbestos was detected in a sample the acronym NAD (no asbestos detected) will appear in the Asbestos Type column of the report.

Fine fibers like those in floor tile may not be discernible by this method.

Factors related to measurement uncertainty have been identified and are available up request.

Test items were received in acceptable condition unless otherwise noted. Revision 5.0 dated 08/27/19.

Approved Signatory: 

Date: 9/19/2024

Environmental Resources Group

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Client Name: <u>Okemos Public Schools</u>		Matrix (See Right Corner for Code)		Matrix Code	
Contact Person: <u>K. Peterson</u>		# OF CONTAINERS		S Soil	
Project Name/ Number: <u>240440</u>		B 1 X		Ground Water	
Project Location: <u>Kinawa M.S., Okemos, MI</u>		B 1 X		SW Surface Water	
Email Distribution List:		B 1 X		W Wastewater	
Phone No.:		B 1 X		X Other: Specify	
Purchase Order No.:		B 1 X		Remarks: <u>test fill positive</u>	
Date	Time	Sample #	Client Sample Descriptor	HOLD SAMPLE	
<u>9/16/24</u>		<u>1-1</u>	<u>Light green 9x5 ft w/ white stains</u>		
		<u>1-2</u>	<u>"</u>		
		<u>1-3</u>	<u>"</u>		
		<u>2-1</u>	<u>black mastic 9x9 ft</u>		
		<u>2-2</u>	<u>"</u>		
		<u>2-3</u>	<u>"</u>		
Comments: <u>Sampled on Friday 9/13</u>				Samples received in acceptable condition <input checked="" type="checkbox"/>	
Sampled/Relinquished By: <u>[Signature]</u>		Date/Time	Received By:	Date/Time	
Relinquished By: <u>[Signature]</u>		<u>9/12/24 12:31</u>		Date/Time	
Relinquished By:		Date/Time	Received By Laboratory:	Date/Time	
			<u>[Signature]</u>	LAB USE ONLY	
Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY		3 bus. days		4 bus. days	
Same day 1 bus. day		2 bus. days		ERG project number: <u>240440/0002/0002</u>	
5-7 bus. days (standard)		Other (specify time/date requirement):		Temperature upon receipt at Lab (if applicable):	
Please see back for terms and conditions					

BULK SAMPLE LOG
ERG Project # 240440

DATE: 9/23/2024 BUILDING: Kinawa Middle School INSPECTOR: Kristin Peterson

HA #	TOTAL FOOTAGE	MATERIAL TYPE	MATERIAL CONDITION	F/NF	MATERIAL ACM (Y/N)	ASBESTOS DETECTED* (Y/N)	SAMPLE #	SAMPLE LOCATION
3	Undetermined	MM	U	NF	N	N	3-1	Room 101 at entry
						N	3-2	Room 11 at entry
HA DESCRIPTION: 4" black cove molding and associated mastic					NOTES:			
4	Undetermined	MM	U	NF	N	Y	2-1	Room 101 at entry.
						N/A	2-2	Room 110 at entry.
HA DESCRIPTION: Gray floor leveling compound					NOTES:			
5	Undetermined	MM	U	NF	N	N	5-1	Room 101 at entry.
						N	5-2	Room 111 at entry.
HA DESCRIPTION: Yellow carpet mastic					NOTES:			
6	Undetermined	MM	U	NF	N	N	6-1	Room 202.
						N	6-2	Room 212
HA DESCRIPTION: 4" gray cove molding and associated mastic					NOTES:			
7	Undetermined	MM	U	NF	N	N	7-1	Room 114 near door.
						N	7-2	Room 113.
HA DESCRIPTION: 4" dark brown cove molding and associated mastic					NOTES:			
HA DESCRIPTION:					NOTES:			



BULK SAMPLE ANALYTICAL REPORT

Project # 240440

NVLAP Accreditation #101510-0

Client Name: Okemos Public Schools
 Project Name: Kinawa Middle School
 Summary: 9 Collected Bulk Samples, 15 Sample Layers Analyzed.

Date Sampled: 9/23/2024
 Date Submitted: 9/23/2024
 Date Analyzed: 9/24/2024

Client P.O. #: N/A
 C.O.C. #: N/A
 Report Date: 9/25/2024

ERG Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos Containing Portion	Analyst
3-1	3-1	Black rubbery and tabular material, 4" cove molding. Layer 1 of 2. (Homogeneous)	NAD	Cellulose fibers <1% Non-fibrous material >99%	KS
3-1	3-1	Tan glue material, 4" cove molding mastic. Layer 2 of 2. (Homogeneous)	NAD	Cellulose fibers 2% Non-fibrous material 98%	KS
3-2	3-2	Black rubbery and tabular material, 4" cove molding. Layer 1 of 2. (Homogeneous)	NAD	Cellulose fibers <1% Non-fibrous material >99%	KS
3-2	3-2	Tan glue material, 4" cove molding mastic. Layer 2 of 2. (Homogeneous)	NAD	Cellulose fibers 3% Non-fibrous material 97%	KS
4-1	4-1	Gray cementitious material, Floor leveling compound. (Homogeneous)	Chrysotile 3%	Cellulose fibers 1% Non-fibrous material 96%	KS
5-1	5-1	Tan glue material, carpet mastic. (Homogeneous)	NAD	Cellulose fibers 4% Non-fibrous material 96%	KS
5-2	5-2	Tan glue material, carpet mastic. (Homogeneous)	NAD	Cellulose fibers 2% Synthetic fibers 2% Non-fibrous material 96%	KS



BULK SAMPLE ANALYTICAL REPORT

Project # 240440

NVLAP Accreditation #101510-0

Client Name: Okemos Public Schools
 Project Name: Kinawa Middle School
 Summary: 9 Collected Bulk Samples, 15 Sample Layers Analyzed.

Date Sampled: 9/23/2024
 Date Submitted: 9/23/2024
 Date Analyzed: 9/24/2024

Client P.O. #: N/A
 C.O.C. #: N/A
 Report Date: 9/25/2024

ERG Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
6-1	6-1	Black rubbery and tabular material, 4" cove molding. Layer 1 of 2. (Homogeneous)	NAD	Cellulose fibers <1% Non-fibrous material >99%	KS
6-1	6-1	Tan glue material, 4" cove molding mastic. Layer 2 of 2. (Homogeneous)	NAD	Cellulose fibers 2% Synthetic fibers 1% Non-fibrous material 97%	KS
6-2	6-2	Black rubbery and tabular material, 4" cove molding. Layer 1 of 2. (Homogeneous)	NAD	Cellulose fibers <1% Non-fibrous material >99%	KS
6-2	6-2	Tan glue material, 4" cove molding mastic. Layer 2 of 2. (Homogeneous)	NAD	Cellulose fibers 1% Synthetic fibers 1% Non-fibrous material 98%	KS
7-1	7-1	Brown rubbery and tabular material, 4" cove molding. Layer 1 of 2. (Homogeneous)	NAD	Cellulose fibers <1% Non-fibrous material >99%	KS
7-1	7-1	Brown glue material, 4" cove molding mastic. Layer 2 of 2. (Homogeneous)	NAD	Cellulose fibers 3% Non-fibrous material 97%	KS
7-2	7-2	Brown rubbery and tabular material, 4" cove molding. Layer 1 of 2. (Homogeneous)	NAD	Cellulose fibers <1% Non-fibrous material >99%	KS



BULK SAMPLE ANALYTICAL REPORT

Project # 240440

NVLAP Accreditation #101510-0

Client Name: Okemos Public Schools
 Project Name: Kinawa Middle School
 Summary: 9 Collected Bulk Samples, 15 Sample Layers Analyzed.

Date Sampled: 9/23/2024
 Date Submitted: 9/23/2024
 Date Analyzed: 9/24/2024

Client P.O. #: N/A
 C.O.C. #: N/A
 Report Date: 9/25/2024

ERG Sample No.	Client I.D. No.	Description / Location	Asbestos Type	Non-Asbestos-Containing Portion	Analyst
7-2	7-2	Brown glue material, 4" cove molding mastic. Layer 2 of 2. (Homogeneous)	NAD	Cellulose fibers 2% Non-fibrous material 98%	KS



Comments

Bulk samples were analyzed using the USEPA Test Method EPA/600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials and EPA-40 CFR Appendix E to Subpart 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples. The constituent percent reported represents an estimate of the area percent of the component. The test report relates only to items tested. This report is not intended to be used as a product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of the laboratory. Individual sample layers are homogeneous, unless otherwise noted.

If no asbestos was detected in a sample the acronym NAD (no asbestos detected) will appear in the Asbestos Type column of the report.

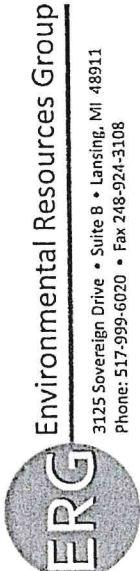
Fine fibers like those in floor tile may not be discernible by this method.

Factors related to measurement uncertainty have been identified and are available up request.

Test items were received in acceptable condition unless otherwise noted. Revision 5.0 dated 08/27/19.

Approved Signatory: 

Date: 9/25/2024



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Client Name:		PARAMETERS		Matrix Code			
Contact Person:		HOLD SAMPLE		S	Soil		
Project Name/ Number:				A	Air		
Project Location:				O	Oil		
Email Distribution List:				B	Bulks		
Phone No.:				Ground Water			
Purchase Order No.:				Surface Water			
				Wastewater			
				Other: Specify			
9/22/21	3-1	4" black Cove moldings + ASSO mastic	B	1	X	PLM	Remarks: +tp
	3-2	" "	B	1	X		
	4-1	5" grey floor leveling compound	B	1	X		
	4-2	" "	B	1	X		
	5-1	yellow carpet mastic	B	1	X		
	5-2	" "	B	1	X		
	6-1	4" grey cove moldings + ASSO mastic	B	1	X		
	6-2	" "	B	1	X		
	7-1	4" dark brown cove moldings + ASSO mastic	B	1	X		
	7-2	" "	B	1	X		

Comments: Samples received in acceptable condition

Received By: _____ Date/Time: 9/22/24 @ 9:30

Received By: _____ Date/Time: _____

Received By Laboratory: *Michael Adams* LAB USE ONLY

ERG project number: 240440/0001/0002

Temperature upon receipt at Lab (if applicable): _____

Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY

Same day 1 bus. day _____ 2 bus. days _____ 3 bus. days _____ 4 bus. days

Other (specify time/date requirement): _____

5-7 bus. days (standard)

Please see back for terms and conditions