BAY MILLS INDIAN COMMUNITY
"GNOOZHEKAANING" PLACE OF THE PIKE

BAY MILLS TRIBAL ADMINSTRATION
12140 West Lakeshore Drive
Brimley, Michigan 49715

WEBSITE: BAYMILLS.ORG

PHONE: (906)248-3241
FAX: (906)248-3283

REQUEST FOR QUOTES

Asbestos Containing Materials Abatement Services
6552 M-221, Brimley, Michigan 49715

The Bay Mills Indian Community (BMIC) is requesting quotes from qualified and licensed asbestos abatement contractors to provide asbestos-containing materials (ACM) abatement services for a residential structure located at 6552 M-221, Brimley, Michigan. This project is funded through a United States Environmental Protection Agency (EPA) grant and will support the safe demolition and redevelopment of the property.

The selected contractor will provide all labor, materials, equipment, permits, notifications, transportation, disposal, air monitoring coordination, and documentation necessary to complete the ACM abatement in accordance with all applicable federal, state, local, and Tribal requirements.

Upon completion of abatement activities, demolition of the structure will be completed by the Bay Mills Indian Community Maintenance Department. Coordination with BMIC staff will be required to ensure demolition can commence immediately following project completion.

Background:
Bay Mills Indian Community owns a residential structure located at 6552 M-221, Brimley, Michigan. A hazardous materials survey was completed by Mackinac Environmental Technology Co-op, Inc. on April 23, 2026, to identify asbestos-containing materials and other hazardous building materials within the structure. The structure is an approximately 800-square-foot residential house with a basement and unfinished attic.

The survey identified regulated asbestos-containing materials requiring removal prior to demolition, including asbestos pipe insulation, basement window glazing, and exterior Transite siding. Elevated lead concentrations were also identified in painted building materials.
The selected contractor shall review the attached hazardous materials survey and incorporate all identified ACM into its cost proposal and work plan.

Known Asbestos-Containing Materials
The hazardous materials survey identified the following regulated ACM (>1% asbestos):

Homogeneous Material	Location	Estimated Quantity	Asbestos Content
Pipe Wrap	Basement piping	Approximately 30 sq. ft.	60% Chrysotile
Basement Window Glazing	Eight basement windows	8 windows	1.5% Chrysotile
Transite Siding	Exterior siding	Approximately 1,400 sq. ft.	25% Chrysotile

The survey also identified exterior caulking containing less than 1% asbestos around approximately ten windows and two doors. Contractor should address removal of the caulking concurrently with siding removal as recommended in the hazardous materials survey.

Lead-Based Paint
The hazardous materials survey identified lead-containing paint throughout portions of the structure, including interior walls, trim, concrete surfaces, and exterior siding. The Contractor shall assume lead-containing materials may be encountered during ACM abatement activities and shall comply with all applicable MIOSHA and regulatory requirements regarding worker protection and waste handling.

Scope of Work:
The selected contractor shall provide all services necessary to complete ACM abatement, including but not limited to:

1. Project Planning and Regulatory Compliance
- Review the hazardous materials survey
- Conduct site visit(s) as necessary
- Prepare project-specific work plans including working with BMIC Environmental Coordinator on a clean-up plan per EPA requirements
- Obtain required permits and approvals
- Submit all required notifications to applicable regulatory agencies
- Coordinate with Bay Mills Indian Community staff throughout the project

2. ACM Abatement
Remove and properly dispose of all identified ACM, including:
- Pipe insulation/wrap located in the basement
- Basement window glazing containing asbestos
- Exterior Transite siding
- Associated asbestos-containing debris generated during removal
- Exterior caulking associated with siding removal

All ACM shall be removed, transported, and disposed of at appropriately permitted disposal facilities

3. Site Cleanup
- Conduct thorough cleaning of all work areas
- Remove all ACM-related debris from the property
- Leave the structure ready for demolition activities

4. Air Monitoring and Clearance
The Contractor shall arrange for and coordinate required post-abatement clearance activities performed by an independent qualified professional where required by regulation.
The Contractor shall provide:
- Final visual inspection documentation
- Post-abatement clearance testing results
- Clearance air monitoring reports, if applicable

- Waste shipment records/manifests
- Documentation demonstrating regulatory compliance and project closeout

5. Coordination with BMIC
The Contractor shall coordinate abatement scheduling with the Bay Mills Indian Community Maintenance Department to ensure demolition activities can begin immediately following successful project completion and clearance.

Contractor Qualifications
Respondents must demonstrate:
- Experience performing residential and commercial asbestos abatement projects
- Appropriate State of Michigan asbestos abatement contractor licensing
- Adequate insurance coverage including workers compensation, general liability, and automobile liability

Anticipated Schedule

Milestone	Date
RFQ Issued	November 6, 2026
Quotes Due	November 20, 2026, 12:00 PM (Noon) EST
Evaluation and Selection	November 2026
Contract Execution	Winter 2026-2027
Project Completion	Spring or Summer 2027

The schedule is subject to change at the sole discretion of Bay Mills Indian Community.

Submission Requirements:
Quotes shall include the following information:

1. Cover Letter
Briefly describing the firm's interest and qualifications.

2. Company Qualifications
- Years in business
- Description of asbestos abatement experience
- Experience with Tribal, governmental, or federally funded projects

4. References
Provide a minimum of three references for projects of similar scope completed within the last five years.

5. Insurance
Proof of current insurance coverage.

6. Methodology
Description of:

- ACM removal methods
- Waste handling and disposal procedures
- Health and safety approach
- Regulatory compliance procedures
- Proposed clearance process

7. Schedule
Estimated duration of the project and availability for Spring/Summer 2027 work.

8. Cost Proposal
Provide a lump-sum cost proposal including:
- Mobilization
- ACM removal
- Disposal fees
- Air monitoring/clearance coordination
- Project management
- Any optional or additional costs

9. Native American Preference (Optional)
Provide documentation demonstrating qualification as an Native American-owned enterprise, with at least 51% active ownership by a member of a federally recognized Native American tribe.

Quote Submission
Quotes must be submitted electronically in PDF format to:

Jennifer Satchell, Environmental Coordinator
Bay Mills Indian Community
Email: **jmsatchell@baymills.org**

Deadline:

Friday, November 20, 2026, at 12:00 PM (Noon) EST
Late submissions will not be considered.
Questions regarding this RFQ should be directed to Jennifer Satchell at:
- Email: jmsatchell@baymills.org
- Phone: (906) 248-8655

Evaluation Criteria:

	Score Received: 1-5	Weight	Weighted Scores
Company Qualifications and Experience		25%	
Proposed Approach and Methodology		25%	
Schedule and Availability		20%	
Cost Proposal		25%	

Native Amerian Preference		5%	
Total	**0**	**100%**	

Ratings:	
Clearly Outstanding	5
Well Qualified	4
Average	3
Weak	2
Unsatisfactory	1
Insufficient Response	0

Compensation
The quote shall provide a fixed cost for all work necessary to complete the ACM abatement project.

Reserved Rights
Bay Mills Indian Community reserves the right to:

- Reject any or all quotes
- Request additional information from respondents
- Negotiate scope, schedule, and pricing prior to contract award.
- Waive informalities or irregularities in submissions
- Cancel or revise this RFQ at any time

Attachments
Hazardous Materials Survey – 6552 M-221, Brimley, Michigan (May 2026)

HAZMAT SURVEY

6552 M-221, BRIMLEY, MICHIGAN

May 4, 2026

(Date of Survey – April 23, 2026)



Prepared by:
Mackinac Environmental Technology Co-op, Inc.
St. Ignace, Michigan

MET Project No: M26-5246

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LIST OF ATTACHMENTS

Attachment #	*Description*
1	LARA Inspector Certification
2	Figure 1 - Site Plan
3	Site Photographs
4	Laboratory Analytical Report – Asbestos Point Counts
5	Laboratory Analytical Report – Lead & Cadmium
6	MIOSHA Fact Sheet - Asbestos
7	MIOSHA Fact Sheet – Lead

1.0 INTRODUCTION

Mackinac Environmental Technology Co-op, Inc. (MET) conducted an asbestos and lead paint survey of a residential house (the house). The house is located at 6552 M-221, Brimley, Michigan. The survey, which was conducted on April 23, 2026, included the following:

1. An Asbestos Survey (asbestos survey) conducted in general accordance with Section 12 of the Clean Air Act - National Emission Standards for Hazardous air Pollutants (NESHAP), Part 602 – MIOSHA Asbestos Standard for Construction and Part 305 - MIOSHA Asbestos Standard for General Industry.

2. A Paint Survey conducted in general accordance with MIOSHA Part 603 - Lead Exposure in Construction and Part 309 - Cadmium Exposure in Construction.

A. List of Common Acronyms

- NESHAP: National Emissions Standards for Hazardous Air Pollutants
- MIOSHA: Michigan Occupational Safety and Health Administration
- ACM: Asbestos Containing Material
- SACM: Suspect Asbestos Containing Material
- PACM: Presumed Asbestos Containing Material
- TSI: Thermal System Insulation
- MAG: Magnesium Carbonate Hydroxide
- USEPA: United States Environmental Protection Agency
- PEL: Permissible Exposure Limit
- LBP: Lead-Based Paint
- CBP: Cadmium-Base Paint

B. *Limitations and Assumptions*

1. MET made every reasonable attempt to access all areas in the house. However, there exists the potential for discovering additional ACM and SACM not addressed by this report during renovation/demolition activities. If additional ACM or SACM is encountered, the subject material must be sampled and/or abated before being further disturbed.

2. Additional paint types, suspect for lead and cadmium may be located in the building. This may include additional paint layers that were not encountered in the samples, discrete areas that would not yield samples and/or additional discrete areas that were not identified/sampled.

C. Description

The structure is approximately 800 square feet, with an similar sized basement, and unfinished 2nd story/attic, and finished with a gable roof.

Interior Materials:
- Walls: plaster.
- Ceilings: plaster.

- Flooring: hardwood, carpet, tile, linoleum.
- Observed Insulation: fiberglass.

Exterior Materials:

- Transite siding.
- Shingle.

2.0 ASBESTOS SURVEY

The asbestos survey was conducted by Seth Monroe, a certified asbestos inspector (#A59870). A copy of his accreditation through the State of Michigan LARA is provided in ***Attachment #1***. The objective of the asbestos survey was to visually assess all functional spaces in the building to determine the presence of PACM and SACMs. Representative samples of each SACM were collected and analyzed at a contract laboratory to determine whether the sample contains asbestos. An ACM is defined by the USEPA as any material or product which contains more than one-percent (1%) asbestos.

A. Description of Asbestos Survey

MET collected 14 bulk samples of SACM. Each sample was placed into an air-tight zip-loc bag and triple bagged prior to shipment to the analytical laboratory for analysis. The samples were submitted to SanAir Technologies Laboratory for polarized light microscopy (PLM) analysis via USEPA Method 600. This effort resulted in the analysis of 31 samples. Three samples were point counted.

B. Asbestos Survey Findings

HM #	SAMPLE #	SACM	LOCATION	Estimated Quantity	ACM
1	1-ABCDE	Plaster & Skim Coat	Throughout		NO
2	2-AB	Stick Tile 1 & Mastic	Bathroom		NO
3	3-AB	Stick Tile 2 & Mastic	Kitchen		NO
4	4-AB	Kitchen Mastic	Kitchen		NO
5	5-AB	Window Glazing	First and second floor		NO
6	6-AB	9” Floor Tile A & Mastic	Back Entry		NO
7	7-AB	9” Floor Tile B & Mastic	Back Entry		NO
8	**8-AB**	**Pipe Wrap**	**Basement pipes**	**~30 sq ft**	**60% Chrysotile**
9	**9-AB**	**Basement Glazing**	**Basement Windows**	**8 windows**	**1.5% Chrysotile**
10	**10-AB**	**Siding**	**Exterior**	**~1400 sq ft**	**25% Chrysotile**
11	11-AB	Shingle & Tar	Roof		NO
12	12-AB	Chimney Tar	Roof		NO
13	13-AB	Paper Siding	Exterior		NO
14	14-AB	Exterior Caulk	Around windows	12 openings	<0.25% Chrysotile

HM = Homogeneous Material

- Sample Locations are depicted on Figure 1 – Sample Location Diagram in ***Attachment #2.***
- Photographs depicting conditions are included in ***Attachment #3***.

- A complete copy of the asbestos laboratory analytical report is included in ***Attachment #4***.
- A MIOSHA Guidance Sheet that discusses asbestos is included in ***Attachment #5***.

C. ***Discussion***

MET's April 23, 2026, asbestos survey identified three regulated asbestos containing material (i.e. >1% Asbestos).

- HM#8: Pipe Wrap. Main room has a run of wrapped round pipe, approximately 7 feet, vent end has wrap as well. Furnace room has approximately 2' x 2' of wrap, and joints around it are wrapped.

- HM#9: Basement Window Glaze – eight windows in the basement with glazing.

- HM#10: Siding.

One material contained <1% asbestos.

- HM#14: Exterior Caulk. Caulking around 10 windows and two doors. When siding is removed, ensure that this caulking is removed with it.

3.0 PAINT SURVEY

The paint survey was conducted to determine if painted surfaces inside the fire damaged areas contain lead or cadmium. Lead Based Paint or Cadmium Based Paint is defined as any paint capable of generating an airborne concentration above OSHA's Permissible exposure limit (PEL). Subsequently, any positive detection of lead or cadmium is subject to MIOSHA Regulations.

A. ***Description of Paint Survey***

Representative paint chip samples were collected from 5 discrete surfaces. Sampling was conducted to ensure that a complete cross-section of the layered paint was collected. The samples were submitted to a contract laboratory for analysis of lead and cadmium by Flame AAS (SW 846 3050B*/7000B).

B. ***Paint Survey Results***

Paint ID #	SAMPLE DESCRIPTION	CADMIUM (PPM)	LEAD (PPM)
P1	Living Room	<9.49	**4,170**
P2	Bathroom	<8.76	**1,120**
P3	Concrete	<9.42	**542**
P4	Siding	<9.12	**805**
P5	Trim	<8.20	**3,380**

PPM = parts per million

- Sample Locations are depicted on Figure 1 – Sample Location Diagram in ***Attachment #2.***
- A complete copy of the laboratory analytical report is included in ***Attachment #5***.
- A MIOSHA Guidance Sheet that discusses lead-based paint is included in ***Attachment #7***.

C. Discussion

MET's April 23, 2026, paint survey identified elevated lead levels in the paint samples.

1. Provide renovation contractor(s) with a copy of this report and explain that disturbance of paint is subject to compliance with all applicable MIOSHA regulations (i.e. engineering controls, respirator use, air monitoring, etc.).

2. Manage the painted materials in a manner that reduces the potential for dust emissions and dust discharge (i.e. wetted, landfill disposal) to the surrounding surfaces and air.

4.0 OTHER HAZARDOUS MATERIALS

1. Any mercury thermostats, fluorescent bulbs, tubes, etc. will need to be removed before demolition.

5.0 CLOSING

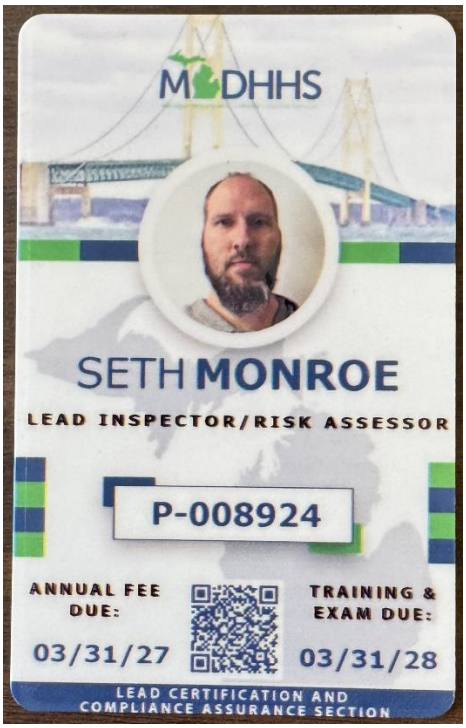
Mackinac Environmental Technology Co-op, Inc. appreciates the opportunity to provide these consulting services. If you have any questions regarding this report, please do not hesitate to contact this office.

Sincerely,
Mackinac Environmental Technology Co-op, Inc.



Seth Monroe
Certified Lead Inspector – (P-08924)
Asbestos Inspector (#A59870)

ATTACHMENT #1


MDHHS
SETH MONROE
LEAD INSPECTOR/RISK ASSESSOR
P-008924
ANNUAL FEE DUE:
03/31/27
TRAINING & EXAM DUE:
03/31/28
LEAD CERTIFICATION AND COMPLIANCE ASSURANCE SECTION

MICHIGAN DEPARTMENT OF
LABOR AND ECONOMIC OPPORTUNITY

(http://michigan.gov/miosha)

Individual Profile for MONROE, SETH D.

Name and Address

Name

MONROE, SETH D.

Address

3403 SOUTH REYNOLDS LANE
SAULT SAINTE MARIE, MI 49783

License Information

Accreditation Type: Inspector

ID#: A59870

Status: Apprvd - Full

Expiration Date: 10/15/2026

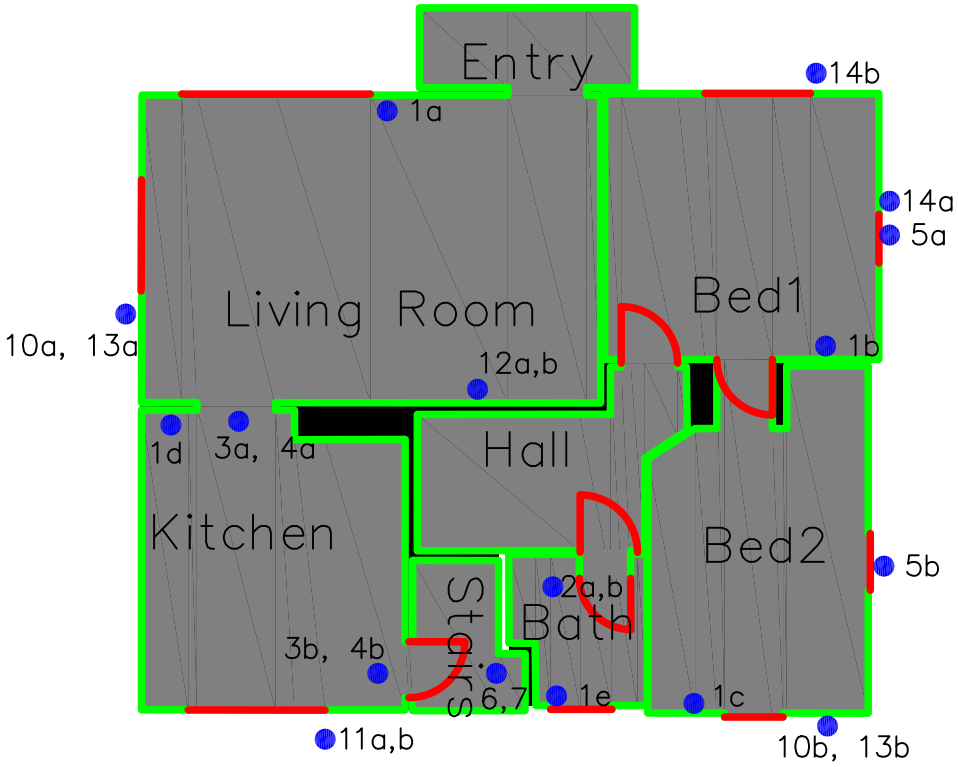
Training Expiration Date: 9/18/2026

New Search (/Individual/IndividualSearch)

Back to Top MI.gov (http://www.michigan.gov) Asbestos Program - Verify and Search (/)

Asbestos Program (https://www.michigan.gov/asbestos) Policies (http://www.michigan.gov/policies)

ATTACHMENT #2



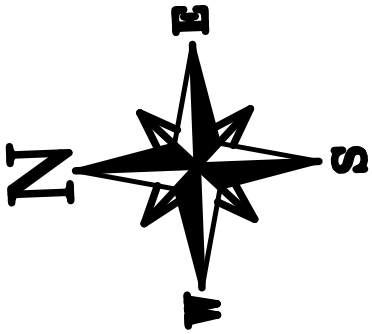
1 ● sacm sample

P1 ● paint sample

door

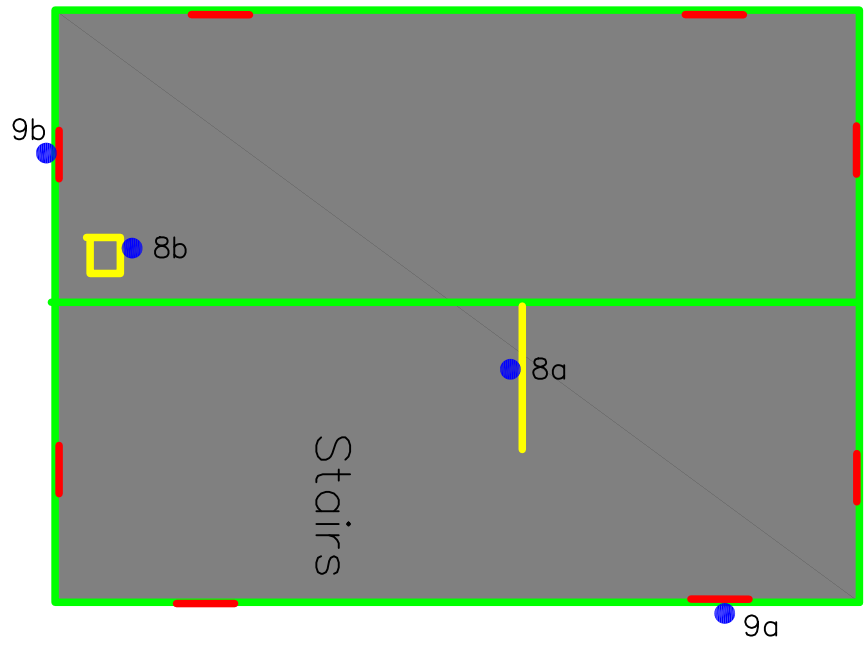
window

pipe wrap



Residential House 6552 M–221, Brimley, MI	M26–5246
	FIGURE 1
SITE PLAN – Main Floor	04–23–26

MACKINAC ENVIRONMENTAL TECHNOLOGY COOP, INC.
Environmental Consulting & Contracting



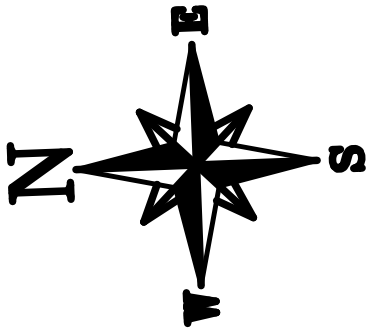
1 sacm sample

P1 paint sample

door

window

pipe wrap



Residential House 6552 M–221, Brimley, MI	M26–5246
	FIGURE 2
SITE PLAN – Lower Floor	04–23–26

MACKINAC ENVIRONMENTAL TECHNOLOGY COOP, INC.

Environmental Consulting & Contracting

ATTACHMENT #3

6552 M-221, BRIMLEY, MICHIGAN
Photographs by S. Monroe (April 23, 2026)

	**The House (front)**
	**(south)**
	**(rear)**

6552 M-221, BRIMLEY, MICHIGAN
Photographs by S. Monroe (April 23, 2026)

ASBESTOS CONTAINING MATERIALS



1. HM#8 – Pipe wrap (same pipe in photo #2)



2. HM#8 – Pipe wrap (same pipe in photo #1)



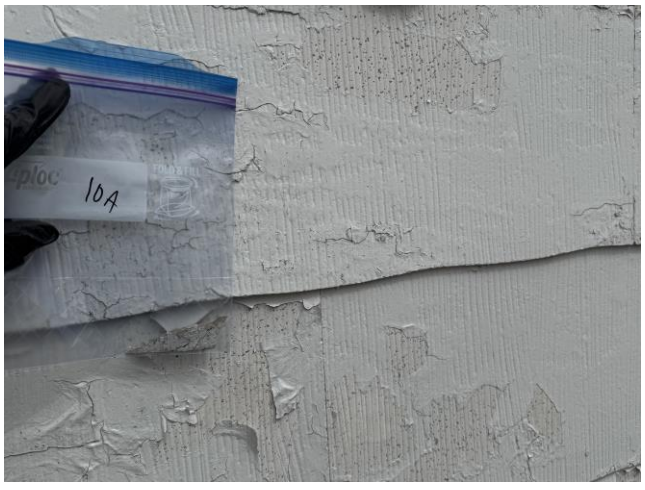
3. HM#8 – Pipe wrap (same pipe in photo #1&2)



4. HM#8 – Pipe wrap – above furnace unit



5. HM#9: Basement Window Glaze



6. HM#10: Siding

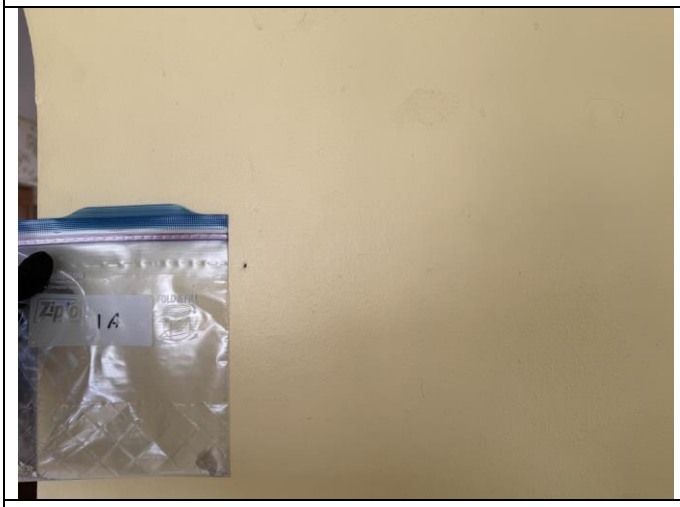
6552 M-221, BRIMLEY, MICHIGAN
Photographs by S. Monroe (April 23, 2026)

ASBESTOS CONTAINING MATERIALS



7. HM#14: Exterior caulk - <1% asbestos

General Photos – Material is Negative for Asbestos



1. HM#1: Plaster



2. HM#2: Stick tile 1



3. HM#3: Stick tile 2
4. HM#4: Kitchen mastic



5. HM#5: Window glaze

6552 M-221, BRIMLEY, MICHIGAN
Photographs by S. Monroe (April 23, 2026)

General Photos – Material is Negative for Asbestos



6. HM#6: 9” floor tile A
7. HM#7: 9” floor tile B



8. HM#11: Shingle
9. HM#12: Chimney tar



10. HM#13: paper siding

Lead Paint



1. P1: Living Room



2. P2: Bathroom

6552 M-221, BRIMLEY, MICHIGAN
Photographs by S. Monroe (April 23, 2026)

Lead Paint



3. P3: Concrete



4. P4: Siding



5. P5: Trim

ATTACHMENT #4

SanAir Technologies Laboratory

The Identification Specialists

Analysis Report
prepared for
Mackinac Environmental Technology Co-Op, Inc.

Report Date: 4/28/2026

Project Name: 6552M221

Project #: M26-5246

SanAir ID#: 26024658

NVLAP TESTING

NVLAP LAB CODE 200870-0

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com

SanAir Technologies Laboratory

SanAir ID Number
26024658
FINAL REPORT
4/28/2026 4:44:24 PM

Name: Mackinac Environmental Technology Co-Op, Inc.
Address: PO Box 485
St. Ignace, MI 49781
Phone: 906-643-9948

Project Number: M26-5246
P.O. Number:
Project Name: 6552M221
Collected Date: 4/23/2026
Received Date: 4/27/2026 9:55:00 AM

Dear Monroe,

We at SanAir would like to thank you for the work you recently submitted. The 31 sample(s) were received on Monday, April 27, 2026 via FedEx. The final report(s) is enclosed for the following sample(s): 1-A, 1-B, 1-C, 1-D, 1-E, 2-A, 2-B, 3-A, 3-B, 4-A, 4-B, 5-A, 5-B, 6-A, 6-B, 7-A, 7-B, 8-A, 8-B, 9-A, 9-B, 10-A, 10-B, 11-A, 11-B, 12-A, 12-B, 13-A, 13-B, 14-A, 14-B.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:
- 31 samples in Good condition.

SanAir Technologies Laboratory

SanAir ID Number
26024658
FINAL REPORT
4/28/2026 4:44:24 PM

Name: Mackinac Environmental Technology Co-Op, Inc.
Address: PO Box 485
St. Ignace, MI 49781
Phone: 906-643-9948

Project Number: M26-5246
P.O. Number:
Project Name: 6552M221
Collected Date: 4/23/2026
Received Date: 4/27/2026 9:55:00 AM

Analyst: Garcia, Samantha

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
1-A / 26024658-001 Plaster, Plaster	Grey Non-Fibrous Heterogeneous	2% Hair	98% Other	None Detected
1-A / 26024658-001 Plaster, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
1-B / 26024658-002 Plaster, Plaster	Grey Non-Fibrous Heterogeneous	2% Hair	98% Other	None Detected
1-B / 26024658-002 Plaster, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
1-C / 26024658-003 Plaster, Plaster	Grey Non-Fibrous Heterogeneous	2% Hair	98% Other	None Detected
1-C / 26024658-003 Plaster, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
1-D / 26024658-004 Plaster, Plaster	Grey Non-Fibrous Heterogeneous	2% Hair	98% Other	None Detected
1-D / 26024658-004 Plaster, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
1-E / 26024658-005 Plaster, Plaster	Grey Non-Fibrous Heterogeneous	2% Hair	98% Other	None Detected
1-E / 26024658-005 Plaster, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Samantha Garcia

Approved Signatory:

Analysis Date: 4/28/2026

Date: 4/28/2026

SanAir Technologies Laboratory

SanAir ID Number
26024658
FINAL REPORT
4/28/2026 4:44:24 PM

Name: Mackinac Environmental Technology Co-Op, Inc.
Address: PO Box 485
St. Ignace, MI 49781
Phone: 906-643-9948

Project Number: M26-5246
P.O. Number:
Project Name: 6552M221
Collected Date: 4/23/2026
Received Date: 4/27/2026 9:55:00 AM

Analyst: Garcia, Samantha

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
2-A / 26024658-006 Stick Tile 1, Tile	Cream Non-Fibrous Homogeneous		100% Other	None Detected
2-A / 26024658-006 Stick Tile 1, Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
2-B / 26024658-007 Stick Tile 1, Tile	Cream Non-Fibrous Homogeneous		100% Other	None Detected
2-B / 26024658-007 Stick Tile 1, Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected
3-A / 26024658-008 Stick Tile 2, Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
3-A / 26024658-008 Stick Tile 2, Mastic	Yellow Non-Fibrous Homogeneous	2% Cellulose	98% Other	None Detected
3-B / 26024658-009 Stick Tile 2, Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
3-B / 26024658-009 Stick Tile 2, Mastic	Yellow Non-Fibrous Homogeneous	2% Cellulose	98% Other	None Detected
4-A / 26024658-010 Kitchen Mastic	Black Non-Fibrous Homogeneous	2% Cellulose	98% Other	None Detected
4-B / 26024658-011 Kitchen Mastic	Black Non-Fibrous Homogeneous	2% Cellulose	98% Other	None Detected

Analyst: Samantha Garcia
Approved Signatory:
Analysis Date: 4/28/2026
Date: 4/28/2026

SanAir Technologies Laboratory

SanAir ID Number
26024658
FINAL REPORT
4/28/2026 4:44:24 PM

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Project Number: M26-5246
P.O. Number:
Project Name: 6552M221
Collected Date: 4/23/2026
Received Date: 4/27/2026 9:55:00 AM

Analyst: Garcia, Samantha

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
5-A / 26024658-012 Window Glazing	White Non-Fibrous Homogeneous		100% Other	None Detected
5-B / 26024658-013 Window Glazing	White Non-Fibrous Homogeneous		100% Other	None Detected
6-A / 26024658-014 9" Floor Tile A, Floor Tile	Cream Non-Fibrous Homogeneous		100% Other	None Detected
6-A / 26024658-014 9" Floor Tile A, Mastic	Black Non-Fibrous Homogeneous	4% Cellulose	96% Other	None Detected
6-B / 26024658-015 9" Floor Tile A, Floor Tile	Cream Non-Fibrous Homogeneous		100% Other	None Detected
6-B / 26024658-015 9" Floor Tile A, Mastic	Black Non-Fibrous Homogeneous	4% Cellulose	96% Other	None Detected
7-A / 26024658-016 9" Floor Tile B, Floor Tile	Green Non-Fibrous Homogeneous		100% Other	None Detected
7-A / 26024658-016 9" Floor Tile B, Mastic	Black Non-Fibrous Homogeneous	4% Cellulose	96% Other	None Detected
7-B / 26024658-017 9" Floor Tile B, Floor Tile	Green Non-Fibrous Homogeneous		100% Other	None Detected
7-B / 26024658-017 9" Floor Tile B, Mastic	Black Non-Fibrous Homogeneous	4% Cellulose	96% Other	None Detected

Analyst: Samantha Garcia

Approved Signatory:

Analysis Date: 4/28/2026

Date: 4/28/2026

SanAir Technologies Laboratory

SanAir ID Number
26024658
FINAL REPORT
4/28/2026 4:44:24 PM

Name: Mackinac Environmental Technology Co-Op, Inc.
Address: PO Box 485
St. Ignace, MI 49781
Phone: 906-643-9948

Project Number: M26-5246
P.O. Number:
Project Name: 6552M221
Collected Date: 4/23/2026
Received Date: 4/27/2026 9:55:00 AM

Analyst: Garcia, Samantha

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
8-A / 26024658-018 Pipe Wrap	White Fibrous Homogeneous	20% Cellulose	20% Other	60% Chrysotile
8-B / 26024658-019 Pipe Wrap				Not Analyzed
9-A / 26024658-020 Basement Glazing	Grey Non-Fibrous Homogeneous		100% Other	None Detected
9-B / 26024658-021 Basement Glazing	White Non-Fibrous Homogeneous		98% Other	2% Chrysotile
10-A / 26024658-022 Siding	White Non-Fibrous Homogeneous		75% Other	25% Chrysotile
10-B / 26024658-023 Siding				Not Analyzed
11-A / 26024658-024 Shingle, Shingle	Black Non-Fibrous Heterogeneous	30% Glass	70% Other	None Detected
11-A / 26024658-024 Shingle, Tar	Black Non-Fibrous Homogeneous		100% Other	None Detected
11-B / 26024658-025 Shingle, Shingle	Black Non-Fibrous Heterogeneous	30% Glass	70% Other	None Detected
11-B / 26024658-025 Shingle, Tar	Black Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: Samantha Garcia
Approved Signatory:
Analysis Date: 4/28/2026
Date: 4/28/2026

SanAir Technologies Laboratory

SanAir ID Number
26024658
FINAL REPORT
4/28/2026 4:44:24 PM

Name: Mackinac Environmental Technology Co-Op, Inc.
Address: PO Box 485
St. Ignace, MI 49781
Phone: 906-643-9948

Project Number: M26-5246
P.O. Number:
Project Name: 6552M221
Collected Date: 4/23/2026
Received Date: 4/27/2026 9:55:00 AM

Analyst: Garcia, Samantha

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
12-A / 26024658-026 Chimney Tar	Black Non-Fibrous Homogeneous	6% Cellulose	94% Other	None Detected
12-B / 26024658-027 Chimney Tar	Black Non-Fibrous Homogeneous	6% Cellulose	94% Other	None Detected
13-A / 26024658-028 Paper	Various Fibrous Homogeneous	70% Cellulose	30% Other	None Detected
13-B / 26024658-029 Paper	Various Fibrous Homogeneous	70% Cellulose	30% Other	None Detected
14-A / 26024658-030 Ext Caulk	White Non-Fibrous Homogeneous		100% Other	< 1% Chrysotile
14-B / 26024658-031 Ext Caulk	White Non-Fibrous Homogeneous		100% Other	< 1% Chrysotile

Analyst: Samantha Garcia
Analysis Date: 4/28/2026

Approved Signatory:
Date: 4/28/2026

Disclaimer and Additional Information:
Asbestos Bulk PLM EPA 600/R-93/116

This report is the sole property of the client named on the chain-of-custody (COC) submitted to SanAir Technologies Laboratory, Inc. (SanAir). Results in the report are confidential information intended only for the use by the customer listed on the COC. Neither results nor reports will be discussed with or released to any third party without our client's written permission. The final report shall not be reproduced, except in full, without written approval of the laboratory to assure that parts of the report are not taken out of context. This report and any information contained within shall not be edited, altered, or modified in any way by any persons or agencies receiving, viewing, distributing, or otherwise possessing a copy of this final report. The laboratory reserves the right to perform amendments to any finalized report, of which shall supersede and make obsolete any previous editions. Such changes, modifications, additions, or deletions shall be effective immediately upon notice thereof, which may be given by means including but not limited to posting on the SanAir client portal website, electronic or conventional mail, or by any other means.

The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client on the COC. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition received at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, P.O. number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start-stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted on the report. When the client requires samples to be tested that deviates from a specific method or condition, all reported results may be affected by the deviation. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted.

This report does not constitute nor shall not be used by the client to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies; all or somet tests contained in this report may not be accredited by every local, state, and federal regulatory agencies. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. For NY state samples, method EPA 600/M4-82-020 is performed.

NYELAP Disclaimer:
Polarized-light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. 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.

Asbestos Accreditations, Certifications, and Licenses
National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PLM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, LELAP Lab ID #05088

SanAir Technologies Laboratory
10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos Chain of Custody

Form 140, Rev 7, 10/20/2022

SanAir ID Number **26024658**

Received by KM on 4/27/26 at 9:55 AM

Company: Mackinac Environmental Technology	Project #: M26-5248	Collected by: Monroe
Address: P.O. Box 485	Project Name: 6552 M221	Phone #: 906-643-9948
City, St., Zip: St. Ignace, MI, 49781	Date Collected: 4-23-26	Fax #:
State of Collection: MI Account#: 4768	P.O. Number:	Email: inbox@met-coop.com

Bulk

ABB	PLM EPA 600/R-93/116	✔
	Positive Stop	X
ABEPA	PLM EPA 400 Point Count	☐
ABB1K	PLM EPA 1000 Point Count	☐
ABBEN	PLM EPA NOB**	☐
ABBCH	TEM Chatfield**	☐
ABBTM	TEM EPA NOB**	☐
ABQ	PLM Qualitative	☐

** Available on 24-hr. to 5-day TAT

Water

ABHE	EPA 100.2	☐

Air

ABA	PCM NIOSH 7400	☐
ABA-2	OSHA w/ TWA*	☐
ABTEM	TEM AHERA	☐
ABATN	TEM NIOSH 7402	☐
ABT2	TEM Level II	☐
Other:		☐

New York ELAP

ABEPA2	NY ELAP 198.1	☐
ABENY	NY ELAP 198.6 PLM NOB	☐
ABBNY	NY ELAP 198.4 TEM NOB	☐
	Positive Stop	☐

Soil

ABSE	PLM EPA 600/R-93/116 (Qual.)	☐

Vermiculite

ABB	PLM EPA 600/R-93/116	☐
ABEPA3	PLM EPA 400 Point Count	☐
ABCM	Cincinnati Method	☐

Dust

ABWA	TEM Wipe ASTM D-6480	☐
ABDMV	TEM Microvac ASTM D-5755	☐

Matrix	Other	
		☐

Turn Around Times	3 HR (4 HR TEM) ☐	6 HR (8HR TEM) ☐	12 HR ☐	1 Day ☐
	☒ 2 Days	☐ 3 Days	☐ 4 Days	☐ 5 Days

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start – Stop Time*	
1-ABCDE	Plaster					
2-AB	Stick Tile 1					
3-AB	Stick Tile 2					
4-AB	Kitchen Mastic					
5-AB	Window Glazing					
6-AB	9" Floor Tile A					
7-AB	9" Floor Tile B					
8-AB	Pipe Wrap					
9-AB	Basement Glazing					
10-AB	Siding					
11-AB	Shingle					
12-AB	Chimney Tar					

Relinquished by	Date	Time	Received by	Date	Time
	4-24-26	1200			

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of $150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

SanAir ID Number
26024658

Received by KM on 4/27/26 at 9:55 AM

Sample #	Sample Identification/Location	Volume or Area	Sample Date			
13-AB	Paper					
14-AB	Ext. Caulk					

Special Instructions	

Relinquished by	Date	Time	Received by	Date	Time
[signature]	4-24-26	1206			

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of $150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges. Page 2 of 2

SanAir Technologies Laboratory

The Identification Specialists

Analysis Report
prepared for
Mackinac Environmental Technology Co-Op, Inc.

Report Date: 4/30/2026

Project Name: 6552 M221

Project #: M26-5246

SanAir ID#: 26025061

NVLAP TESTING

NVLAP LAB CODE 200870-0

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com

SanAir Technologies Laboratory

SanAir ID Number
26025061
FINAL REPORT
4/30/2026 4:04:40 PM

Name: Mackinac Environmental Technology Co-Op, Inc.
Address: PO Box 485
St. Ignace, MI 49781
Phone: 906-643-9948

Project Number: M26-5246
P.O. Number:
Project Name: 6552 M221
Collected Date: 4/23/2026
Received Date: 4/29/2026 9:00:00 AM

Dear Edward Radecki,

We at SanAir would like to thank you for the work you recently submitted. The 2 sample(s) were received on Wednesday, April 29, 2026 via Fax or Email request. The final report(s) is enclosed for the following sample(s): 14A, 14B.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:
- 2 samples in Good condition.

SanAir Technologies Laboratory

SanAir ID Number
26025061
FINAL REPORT
4/30/2026 4:04:40 PM

Name: Mackinac Environmental Technology Co-Op, Inc.
Address: PO Box 485
St. Ignace, MI 49781
Phone: 906-643-9948

Project Number: M26-5246
P.O. Number:
Project Name: 6552 M221
Collected Date: 4/23/2026
Received Date: 4/29/2026 9:00:00 AM

Analyst: Tallert, Jonathan

Asbestos Bulk EPA PLM NOB EPA 600/R-93/116

SanAir ID / Description	Appearance	% Fibrous	% Non Fibrous	Asbestos Types	% Total Asbestos
26025061-001 / 14A Ext Caulk	White Non-Fibrous Homogeneous		100 %	Chrysotile	< 0.25%
26025061-002 / 14B Ext Caulk	White Non-Fibrous Homogeneous		100 %	Chrysotile	< 0.25%

EPA 400 Point Count with Gravimetric Reduction.

Analyst: Approved Signatory:

Analysis Date: 4/30/2026 Date: 4/30/2026

Disclaimer and Additional Information:
Method for the Determination of Asbestos in Bulk Building Materials
EPA 600/R-93/116, July 1993 PLM EPA NOB

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The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client on the COC. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, P.O. number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start - stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted. When client requires samples to be tested that deviates from a specific method or condition, all reported results may be affected by the deviation. Where noted on the chain of custody, 400 point count with gravimetric reduction was employed with this analysis. Limit of detection is 0.25%. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted.

This report does not constitute and shall not be used to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies; all or some tests contained in this report may not be certified or accredited by every local, state, and federal regulatory agency. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

Samples are held for a period of 60 days. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations.

Revision #03, 10/3/2024

26025061

From: Mackinac Environmental <inbox@met-coop.com>
Sent: Wednesday, April 29, 2026 9:48 AM
To: Support <support@sanair.com>
Subject: Re: [Reply Needed] Re: 26024658 - Point Count

EXTERNAL EMAIL: DO NOT
CLICK on links or attachments
unless you recognize the sender
and know the content is safe.

Yes, proceed.

On Wed, Apr 29, 2026 at 9:16 AM Support <support@sanair.com> wrote:

> Good Morning, Seth,
>
> In order to proceed, we will need to analyze one of these samples using ABBEN (PLM EPA NOB), as the material is non-organically bound. Please confirm this is acceptable so we can proceed.
>
> Please let me know if you have any questions.
> Let us know how we are doing! Click Here for comments, complaints, and compliments.
>
> **Cecelia Toler,** Customer Service Representative
> 804.897.1177, ext. 208 *(Richmond, VA Office)*
> support@sanair.com
>
> 
>
> A Gillson Sciences Company
>
> Prevent. **Protect.** Defend.
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> Asbestos, Microbiology, Lead & Metals, Legionella, Materials,
> Industrial Hygiene, LEED, VOCs, Odor, Biogas Testing
>
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>
> ---
>
> **From:** Mackinac Environmental <inbox@met-coop.com>
> **Sent:** Wednesday, April 29, 2026 8:08 AM
> **To:** Support <support@sanair.com>
> **Subject:** 26024658 - Point Count
>
> **EXTERNAL EMAIL:** DO NOT
> CLICK on links or attachments
> unless you recognize the

RMB APR 29 2026 9:00am

26025061

sender and know the content is safe.

26024658
M26-5246
6552 M221

Please point count the following;

9b - basement glazing
14-a/b - ext caulk

2-day TAT

Seth Monroe
Mackinac Environmental Technology
Office 906-643-9948

RMB APR 29 2026 9:00am

NOB 26025061

SanAir Technologies Laboratory
10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos Chain of Custody

Form 140, Rev 7, 10/20/2022

SanAir ID Number
PLM 26024658
Received by KM on 4/27/26 at 9:55 AM

Company: Mackinac Environmental Technology	Project #: M26-5246	Collected by: Monroe
Address: P.O. Box 485	Project Name: 6552 M221	Phone #: 906-643-9948
City, St., Zip: St. Ignace, MI, 49781	Date Collected: 4-23-26	Fax #:
State of Collection: MI Account#: 4768	P.O. Number:	Email: inbox@met-coop.com

Bulk

ABB	PLM EPA 600/R-93/116	✔
	Positive Stop	X
ABEPA	PLM EPA 400 Point Count	
ABB1K	PLM EPA 1000 Point Count	
ABBEN	PLM EPA NOB**	
ABBCH	TEM Chatfield**	
ABBTM	TEM EPA NOB**	
ABQ	PLM Qualitative	

** Available on 24-hr. to 5-day TAT

Water

ABHE	EPA 100.2	

Air

ABA	PCM NIOSH 7400	
ABA-2	OSHA w/ TWA*	
ABTEM	TEM AHERA	
ABATN	TEM NIOSH 7402	
ABT2	TEM Level II	
Other:		

New York ELAP

ABEPA2	NY ELAP 198.1	
ABENY	NY ELAP 198.6 PLM NOB	
ABBNY	NY ELAP 198.4 TEM NOB	
	Positive Stop	

Soil

ABSE	PLM EPA 600/R-93/116 (Qual.)	

Vermiculite

ABB	PLM EPA 600/R-93/116	
ABEPA3	PLM EPA 400 Point Count	
ABCM	Cincinnati Method	

Dust

ABWA	TEM Wipe ASTM D-6480	
ABDMV	TEM Microvac ASTM D-5755	

Matrix	Other	

Turn Around Times	3 HR (4 HR TEM) ☐	6 HR (8HR TEM) ☐	12 HR ☐	1 Day ☐
	☒ 2 Days	☐ 3 Days	☐ 4 Days	☐ 5 Days

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start – Stop Time*	
1-ABCDE	Plaster					
2-AB	Stick Tile 1					
3-AB	Stick Tile 2					
4-AB	Kitchen Mastic					
5-AB	Window Glazing					
6-AB	9" Floor Tile A					
7-AB	9" Floor Tile B					
8-AB	Pipe Wrap					
9-AB	Basement Glazing					
10-AB	Siding					
11-AB	Shingle					
12 AB	Chimney Tar					

Relinquished by	Date	Time	Received by	Date	Time
[signature]	4-24-26	1200			

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of $150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

Page 1 of 2

NOB 26025061

SanAir ID Number

PLM 26024658

Received by KM on 4/27/26 at 9:55 AM

Sample #	Sample Identification/Location	Volume or Area	Sample Date			
13-AB	Paper					
14-AB	Ext. Caulk					

Special Instructions	

Relinquished by	Date	Time	Received by	Date	Time
[signature]	4-24-26	1206			

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of $150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges. Page 2 of 2

SanAir Technologies Laboratory

The Identification Specialists

Analysis Report
prepared for
Mackinac Environmental Technology Co-Op, Inc.

Report Date: 5/1/2026

Project Name: 6552 M221

Project #: M25-5246

SanAir ID#: 26025058

NVLAP TESTING

NVLAP LAB CODE 200870-0

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com

SanAir ID Number
26025058
FINAL REPORT
5/1/2026 11:12:00 AM

Name: Mackinac Environmental Technology Co-Op, Inc.
Address: PO Box 485
St. Ignace, MI 49781
Phone: 906-643-9948

Project Number: M25-5246
P.O. Number:
Project Name: 6552 M221
Collected Date: 4/23/2026
Received Date: 4/29/2026 9:00:00 AM

Dear Edward Radecki,

We at SanAir would like to thank you for the work you recently submitted. The 1 sample(s) were received on Wednesday, April 29, 2026 via Fax or Email request. The final report(s) is enclosed for the following sample(s): 9b.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

Sample conditions:
- 1 samples in Good condition.

SanAir Technologies Laboratory

SanAir ID Number
26025058
FINAL REPORT
5/1/2026 11:12:00 AM

Name: Mackinac Environmental Technology Co-Op, Inc.
Address: PO Box 485
St. Ignace, MI 49781
Phone: 906-643-9948

Project Number: M25-5246
P.O. Number:
Project Name: 6552 M221
Collected Date: 4/23/2026
Received Date: 4/29/2026 9:00:00 AM

Analyst: Garcia, Samantha

Asbestos Bulk EPA PLM 400 Point Count

	Stereoscopic	Components		
SanAir ID / Description	Appearance	% Fibrous	% Non-fibrous	Asbestos Fibers
9b / 26025058-001 Basement Glazing	White Non-Fibrous Homogeneous		98.5% Other	1.5% Chrysotile

Analyst: Samantha Garcia
Approved Signatory:

Analysis Date: 5/1/2026
Date: 5/1/2026

Disclaimer and Additional Information:
400 Point Count Method EPA 600/R-93/116

EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

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The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample(s) in the condition in which they arrived at the laboratory and information provided by the client on the COC, such as: project number, project name, collection dates, P.O. number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start - stop times that may affect the validity of the results in this report. Samples were received in good condition unless otherwise noted. When the client requires samples to be tested that deviates from a specific method or condition, all reported results may be affected by the deviation. SanAir assumes no responsibility or liability for the manner in which the results are used or interpreted. The limit of detection is 0.25%. Samples are held for a period of 60 days.

This report does not constitute and shall not be used to claim product, process, system, or person certification, approval, or endorsement by NVLAP, NIST, NELAC, AIHA LAP, LLC or any other U.S. governmental agencies; all or some tests contained in this report may not be accredited by every local, state, and federal regulatory agency. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

Asbestos Accreditations, Certifications, and Licenses
National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200870-0
City of Philadelphia Department of Public Health Air Management Services, Certification#ALL-460
Commonwealth of Pennsylvania Department of Environmental Protection Number 68-05397
California State Environmental Laboratory Accreditation Program Certificate Number 2915
Colorado Department of Public Health and Environment Registration Number AL-23143
Connecticut Department of Public Health Environmental Laboratory Registration Number PH-0105
Massachusetts Department of Labor Standards Asbestos Analytical Services License Number: AA000222
State of Maine Department of Environmental Protection License Number: LB-0075
New York State Department of Health Laboratory ID: 11983
State of Rhode Island Department of Health Certification No.: PLM00126
Texas Department of State Health Services License Number: 300440
Commonwealth of Virginia Department of Professional and Occupational Regulation Number: 3333000323
State of Washington Department of Ecology Laboratory ID: C989
State of West Virginia Bureau for Public Health Analytical Laboratory Number: LT000616
Vermont Department of Health License Number: Asb-Co-An-000006
Louisiana Department of Environmental Quality AI Number 212253, LELAP Lab ID #05088

26025058

From: Mackinac Environmental <inbox@met-coop.com>
Sent: Wednesday, April 29, 2026 8:08 AM
To: Support <support@sanair.com>
Subject: 26024658 - Point Count

EXTERNAL EMAIL: DO NOT CLICK on links or attachments unless you recognize the sender and know the content is safe.

26024658
M26-5246
6552 M221

Please point count the following;

9b - basement glazing
14-a/b - ext caulk

2-day TAT

Seth Monroe
Mackinac Environmental Technology
Office 906-643-9948

RMB APR 29 2026 9:00am

PLCT 26025058

SanAir Technologies Laboratory

10501 Trade Ct., Suite 100
N. Chesterfield, VA 23236
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Asbestos Chain of Custody
Form 140, Rev 7, 10/20/2022

SanAir ID Number
PLM 26024658
Received by KM on 4/27/26 at 9:55 AM

Company: Mackinac Environmental Technology	Project #: M26-5246	Collected by: Monroe
Address: P.O. Box 485	Project Name: 6552 M221	Phone #: 906-643-9948
City, St., Zip: St. Ignace, MI, 49781	Date Collected: 4-27-26	Fax #:
State of Collection: MI Account#: 4768	P.O. Number:	Email: inbox@met-coop.com

Bulk

ABB	PLM EPA 600/R-93/116	✔
	Positive Stop	X
ABEPA	PLM EPA 400 Point Count	
ABB1K	PLM EPA 1000 Point Count	
ABBEN	PLM EPA NOB**	
ABBCH	TEM Chatfield**	
ABBTM	TEM EPA NOB**	
ABQ	PLM Qualitative	

** Available on 24-hr. to 5-day TAT

Water

ABHE	EPA 100.2	

Air

ABA	PCM NIOSH 7400	
ABA-2	OSHA w/ TWA*	
ABTEM	TEM AHERA	
ABATN	TEM NIOSH 7402	
ABT2	TEM Level II	
Other:		

New York ELAP

ABEPA2	NY ELAP 198.1	
ABENY	NY ELAP 198.6 PLM NOB	
ABBNY	NY ELAP 198.4 TEM NOB	
	Positive Stop	

Soil

ABSE	PLM EPA 600/R-93/116 (Qual.)	

Vermiculite

ABB	PLM EPA 600/R-93/116	
ABEPA3	PLM EPA 400 Point Count	
ABCM	Cincinnati Method	

Dust

ABWA	TEM Wipe ASTM D-6480	
ABDMV	TEM Microvac ASTM D-5755	

Matrix	Other	

Turn Around Times	3 HR (4 HR TEM) ☐	6 HR (8HR TEM) ☐	12 HR ☐	1 Day ☐
	☒ 2 Days	☐ 3 Days	☐ 4 Days	☐ 5 Days

Special Instructions

Sample #	Sample Identification/Location	Volume or Area	Sample Date	Flow Rate*	Start – Stop Time*	
1 - ABCDE	Plaster					
2 - AB	Stick Tile 1					
3 - AB	Stick Tile 2					
4 - AB	Kitchen Mastic					
5 - AB	Window Glazing					
6 - AB	9" Floor Tile A					
7 - AB	9" Floor Tile B					
8 - AB	Pipe Wrap					
9 - AB	Basement Glazing					
10 - AB	Siding					
11 - AB	Shingle					
12 - AB	Chimney Tar					

Relinquished by	Date	Time	Received by	Date	Time
[signature]	4-24-26	1200			

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of $150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

Page 1 of 2

PFCT 26025058

SanAir ID Number
26024658

PLM

Received by KM on 4/27/26 at 9:55 AM

Sample #	Sample Identification/Location	Volume or Area	Sample Date			
13-AB	Paper					
14-AB	Ext. Caulk					

Special Instructions	

Relinquished by	Date	Time	Received by	Date	Time
[signature]	4-24-26	1201			

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ATTACHMENT #5

SanAir Technologies Laboratory

The Identification Specialists

Analysis Report
prepared for
Mackinac Environmental Technology Co-Op, Inc.

Report Date: 5/4/2026

Project Name: 6552 M221

Project #: M26-5246

SanAir ID#: 26024593

10501 Trade Court, North Chesterfield, Virginia 23236
888.895.1177 | 804.897.1177 | fax: 804.897.0070 | LabReports@SanAir.com | SanAir.com

SanAir ID Number
26024593
FINAL REPORT
5/4/2026 1:34:13 PM

Name: Mackinac Environmental Technology Co-Op, Inc.
Address: PO Box 485
St. Ignace, MI 49781
Phone: 906-643-9948

Project Number: M26-5246
P.O. Number:
Project Name: 6552 M221
Collected Date: 4/23/2026
Received Date: 4/27/2026 9:55:00 AM

Dear Monroe,

We at SanAir would like to thank you for the work you recently submitted. The 5 sample(s) were received on Monday, April 27, 2026 via FedEx. The final report(s) is enclosed for the following sample(s): P1, P2, P3, P4, P5.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Abisola Kasali
Metals Laboratory Director
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Chemistry Analysis
- Disclaimers and Additional Information

Sample conditions:
- 5 samples in Good condition.

SanAir Technologies Laboratory
The Identification Specialists

SanAir Technologies Laboratory, Inc.

10501 Trade Court, N. Chesterfield VA 23236
804.897.1177 Toll Free 888.895.1177 Fax: 804.897.0070
www.sanair.com email: labreports@sanair.com

SanAir ID Number
26024593
Final Report

Name: Mackinac Environmental Technology Co-Op, Inc.
Address: PO Box 485
St. Ignace, MI 49781
Phone: 906-643-9948

Project Number: M26-5246
P.O. Number:
Project Name: 6552 M221

Collected Date: 4/23/2026
Received Date: 4/27/2026 9:55 AM
Report Date: 5/4/2026 5:00 PM
Analyst: Kaitlyn Templeton

Analyte Requested: Paint: Cadmium (Cd), Lead (Pb)
Test Method: EPA M3050B /6010C

REPORT OF ANALYSIS

Lab Sample #	Field Sample #	Analyte	Sample Description	Results in ug/g	Calculated RL in ug/g
26024593-01	P1	Cadmium (Cd)	Living Room	< 9.49	9.49
		Lead (Pb)		4170	23.7
26024593-02	P2	Cadmium (Cd)	Bathroom	< 8.76	8.76
		Lead (Pb)		1120	21.9
26024593-03	P3	Cadmium (Cd)	Concrete	< 9.42	9.42
		Lead (Pb)		542	23.5
26024593-04	P4	Cadmium (Cd)	Siding	< 9.12	9.12
		Lead (Pb)		805	22.8
26024593-05	P5	Cadmium (Cd)	Trim	< 8.20	8.20
		Lead (Pb)		3380	20.5

ug/g=ppm MRL: Method Reporting Limit based on 1.0ug for Cd, 2.5ug for other metals aliquot

Signature: Kaitlyn Templeton
Date: 4/30/2026

Reviewed: Maya Rinkle
Date: 4/30/2026

Metals ICP-OES Disclaimer

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SanAir Technologies Laboratory, Inc. participates in the Environmental Lead Accreditation Program (ELAP) administered by AIHA LAP, LLC (Laboratory ID LAP-162952) and has met the EPA's NLLAP program standards; and the Industrial Hygiene Laboratory Accreditation Program. SanAir also participates in the State of New York's DOH-ELAP program (NY Lab Id No. 11983) and the Commonwealth of Virginia DCLS Program (VA Lab ID#460251). This report does not constitute nor shall be used by the client to claim product, process, system, or person certification, approval, or endorsement by AIHA LAP, LLC, NELAC, NIST, and/or any other U.S. governmental agencies. All or some test results contained in this report may not be accredited by every local, state or federal regulatory agency. Refer to the SanAir website at www.sanair.com for copies of current certificates and scopes of various accreditations, certifications, and licenses or contact the laboratory for inquiries regarding the status or scope of an accreditation or certification.

AIHA LAP, LLC Lab ID: LAP-162952
Commonwealth of VA Department of General Services DCLS, VELAP Laboratory ID#460251
New York State Department of Health Laboratory ID No: 11983
State of Connecticut Department of Public Health Environmental Laboratory Registration Number: PH-0105

Revision Date 4/6/2026

SanAir Technologies Laboratory
10501 Trade Ct.
N. Chesterfield, VA 23236-3993
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Metals & Lead Chain of Custody

Form 70, Revision 11, 09/21/21

SanAir ID Number
26024593

Received by EDR on 4/27/26 at 9:55 AM

Company: Mackinac Environmental Technol	Project #: M26-5246	Phone #:
Address: P.O. Box 485	Project Name: 6552 M221	Phone #: 906-643-9948
City, St., Zip: St. Igance, MI, 49781	Date Collected: 4-23-26	Fax #:
Samples Collected By: Monroe	P.O. Number:	Email: inbox@met-coop.com
Account #: 4768	U.S. State Collected in: MI	Email:

Matrix Types

- ☐ **Air** (ug/m³)
- ☐ **Wipe** (ug/ft²)
- ☑ **Paint** ☐**Soil** ☐**Bulk** (ug/g or ppm)
- ☐ **Other:**

Metals Analysis Types

- Total Concentration of Lead ☑
- Total Concentration of RCRA 8 Metals ☐
- TCLP for Lead ☐
- TCLP for RCRA 8 Metals ☐
- ☑ ICP-total concentration of metals (please list metals): Cadmium

Turn Around Time				
	Same Day ☐	1 Day ☐	2 days ☐	3 Days ☐
	☐ 4 Days	☒ Standard (5 day)	☐ Other Test:	

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
P1	4-23-26	Living Room				
P2		Bathroom				
P3		Concrete				
P4		Siding				
P5		Trim				

Special Instructions	

Relinquished by	Date	Time	Received by	Date	Time
[signature]	4-24-26	1200			

If no technician is provided, then the primary contact for your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm EST will be logged in the next business day. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the 3hr TAT or a minimum charge of $150. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Ground and Next Day Air shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

Page 1 of 1

ATTACHMENT #6

MIOSHA Fact Sheet

Construction Safety & Health Division

Asbestos Exposure in Construction

Asbestos refers to a group of naturally occurring minerals that can separate into microscopic needlelike fibers. The most common forms are Chrysotile, Amosite, and Crocidolite. When released into the atmosphere, the size and shape of the fibers permits them to remain airborne for long periods of time and thus contaminate the environment.

If inhaled, the fibers can cause three specific asbestos-related diseases: Asbestosis (a fibrous scarring of the lungs), Lung Cancer, and Mesothelioma (a cancer of the lining of the chest or abdominal cavity). These diseases do not develop immediately after inhalation of asbestos fibers and typically have a latency period ranging from 15 to 40 years.

Asbestos has been used in more than 3,000 different products over the last 100 years primarily because of its chemical and fire resistant properties. Common products in buildings that contain asbestos include pipe insulation, asphalt, vinyl flooring materials, ceiling tile, spray-on fire proofing, boiler wrap insulation, wall/ceiling decorative plasters, fire doors, and old electrical wire insulation.

Building Owner and Employer/Contractor Responsibilities

The MIOSHA Asbestos for General Industry Standard, Part 305, and the Asbestos Standards for Construction, Part 602, both require pre-1981 building owners to conduct a thorough asbestos building survey. This survey must identify the presence, location and quantity of asbestos-containing material (ACM) and/or presumed asbestos-containing material (PACM) within the building. Pre-1981 materials presumed to contain asbestos include thermal system insulation (e.g., applied to pipes, fittings, boilers, breeching, tanks, ducts, or other structural components to prevent heat loss or gain) and surfacing material (e.g., sprayed, troweled-on, or otherwise applied to surfaces for acoustical, fireproofing, or other purposes). It also includes asphalt and vinyl flooring materials. The only way a contractor can rebut the designation of PACM is by having material sampling and laboratory analysis performed in accordance with Part 602, 1926.1101 (k)(5). Once the building has been determined to have ACM/PACM, a contractor working in the facility must assess whether their work may require them to disturb or remove these materials during renovation/demolition activities. If so, they must comply with applicable work practices and procedures in Part 602. Contractors removing or encapsulating friable ACM/PACM may require licensing under the Michigan Asbestos Abatement Contractor Licensing Act (Act 135, P.A. 1986, as amended).

How to Avoid Hazards

Pre-job planning is vital to a safe and healthy workplace. The following concerns must be addressed before work begins:

- Provide asbestos awareness training annually for all employees who may contact ACM/PACM. A key element of this training is to teach employees to recognize materials that may contain asbestos.
- Obtain a copy of the asbestos building survey prior to initiating work in the facility.
- Verify that all suspect ACM that employees will disturb has been tested and confirmed to be non-ACM (i.e., cross check with the asbestos building survey).
- Be aware of other contractors on-site and their work activities that may disturb ACM/PACM.

- Ensure that a Michigan licensed abatement contractor performs asbestos removal work with properly accredited employees.

Asbestos Regulations Summary

MIOSHA Regulations Part 305 and Part 602:

- Requires an asbestos building/facility inspection in pre-1981 buildings.
- Obligates the building/facility owner to notify immediate employees and contractors working in facility of asbestos building/facility survey results.
- If the building survey is not available, obligates contractors/employers to presume suspect materials contain asbestos until a proper rebuttal through material sampling/analysis is performed.
- Specifies required work practices, protective equipment and procedures for employees removing and/or disturbing ACM and/or PACM.
- Requires asbestos awareness training for employees who may contact but not disturb ACM and/or PACM. Training focuses on building materials that may contain asbestos to help assure that the building survey identified these materials and to prevent unintended disturbances.

Michigan Public Act 135 of 1986 (as amended), Asbestos Abatement Contractor Licensing Act:

- Requires contractors removing or encapsulating friable ACM on another person's property to be a licensed Asbestos Abatement Contractor. Contractors that are Michigan licensed as plumbers, electricians, residential builders, residential maintenance and alteration contractors, or mechanical contractors are exempt from the asbestos abatement contractor licensing requirements if the asbestos abatement work they are performing is incidental to their primary licensed trade and does not exceed 260 linear feet or 160 square feet of friable material.
- Requires the contractor to provide a 10-day project notification to the Department of Licensing and Regulatory Affairs' (LARA) Asbestos Program for projects exceeding 10 linear feet or 15 square feet, or both, of friable asbestos materials.
- Requires contractors to perform clearance air monitoring at the completion of asbestos abatement projects involving a negative pressure enclosure.
- Authorizes penalties and fines for violations of the Act.
- Authorizes suspension, revocation, and denial of an asbestos abatement contractor's license.

Michigan Public Act 440 of 1988 (as amended), Asbestos Workers Accreditation Act:

- Requires persons who perform asbestos-related work in schools, school buildings, and public and commercial buildings to be properly trained and accredited through the MIOSHA Asbestos Program, before performing the work (i.e., asbestos abatement workers, contractor/supervisors, building inspectors, management planners, and project designers).
- Requires trainers who train asbestos abatement workers, contractor/supervisors, building inspectors, management planners, and project designers in Michigan to be approved by the MIOSHA Asbestos Program before providing the training.
- Authorizes penalties and fines for violations of the Act.
- Authorizes the suspension, revocation, or denial of accreditation and trainer approval.

For further information concerning asbestos related issues, contractor licensing, or worker accreditation in the State of Michigan, please visit the Asbestos Program website.

LARA is an equal opportunity employer/program.
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.

ATTACHMENT #7

MIOSHA Fact Sheet

Construction Safety & Health Division

Lead Exposure in Construction

Lead is a soft bluish-gray metal in its elemental state that is commonly found as an additive in many construction materials. Such materials include but are not limited to: paint, welding wire, solders used for soldering tinplate and copper pipe joints, tank linings and electrical conduit. The Consumer Product Safety Commission has banned the use of lead-based paint in residences. However, because lead-based paint inhibits the rusting and corrosion of iron and steel, lead continues to be used on bridges, railways, ships, lighthouses and other steel structures. Employee exposures to lead can occur during the demolition, or salvage of structures, during the removal or encapsulation of lead-containing materials, and during new construction, alteration, repair, or renovation of structures that contain lead or lead-containing materials.

Overexposures to lead are commonly found in the construction industry and are a significant cause of illness in the workplace. Exposure to lead can occur through inhalation (breathing), ingestion (eating), and in the case of certain organic lead compounds not covered by the construction standard, absorption through the skin. Employee exposure to lead can result in both acute (short term) and chronic (long term) health effects. Such health effects include insomnia, constipation, nausea, encephalopathy or damage to the central nervous system, anemia, and kidney disease. Exposure can also result in damage to both the male and female reproductive systems (e.g., decreased fertility, sterility, impotence, miscarriage, and still birth). If an employee does not receive proper medical treatment for these conditions, and the exposures to lead continue unchecked, these health effects can become permanent, and may even result in death.

Employer Responsibilities

The MIOSHA Part 603 Lead Exposure in Construction Standard applies to all construction work operations where an employee may be occupationally exposed to lead. Any employer who has a workplace or operation that is covered by the standard is required to initially determine if employees are exposed to lead at or in excess of the eight-hour Action Level of 30 ug/m^3 (micrograms per cubic meter of air). If the work operations include tasks such as spray painting with lead paint, or manual demolition of structures, manual sanding, heat gun applications, power tool cleaning, lead burning, rivet busting, abrasive blasting, welding, cutting, torch burning, cleanup activities where dry expendable abrasives are used or abrasive blasting enclosure movement and removal, where lead coatings or paint are present, the employer is required to provide the affected employees with appropriate interim protection (i.e., respiratory protection, personal protective clothing, change areas, hand washing facilities, biological monitoring, and training) until such time that employee exposures have been determined.

Many of the standard's provisions are triggered by the level of employee exposure to lead. Employee exposures that are at or in excess of the action level, but less than the eight-hour Permissible Exposure Limit (PEL) of 50 ug/m^3, require that the employer implement routine air monitoring, medical surveillance, housekeeping, and training. Employee exposures in excess of the PEL require additional actions by the employer including, routine air monitoring, methods of complying with the PEL, the use of respiratory protection, the use of protective work clothing and equipment, housekeeping practices, hygiene facilities (i.e. change areas, shower and hand washing facilities, and eating facilities), medical surveillance and medical removal protection, employee information and training, warning signs, and record keeping.

Medical surveillance and medical removal protection is based on the blood lead level (BLL) measured in micrograms of lead per deciliter of blood (µg/dL). New MIOSHA rules (effective December 11, 2018) require that employees be removed from lead exposure when their BLL reaches 30 µg/dL and may not return to work involving lead exposure until their BLL is below 15 µg/dL. Former MIOSHA rules allowed workers to have BLLs of 50 µg/dL before they had to be removed from lead exposure. Under the former rules, workers could return to work when their BLL was below 40 µg/dL. The average BLL in the general population is 1.12 µg/dL.

How to Avoid Hazards

When employees are exposed above the PEL, the employer must develop a compliance program that includes engineering and work practice controls. The best way to prevent over-exposure to lead is to install and maintain engineering controls to eliminate or reduce the hazard. Examples of engineering and other controls include:

- Conduct bulk material analysis to determine if lead is present.
- Provide interim protection until air monitoring determines exposure levels.
- Use exhaust ventilation and dust collection systems. For example, power tools used for grinding surfaces coated with lead containing paint can be equipped with dust collection systems. Use local exhaust ventilation where feasible.
- Do not dry sweep or use compressed air to clean work areas contaminated with lead materials; use wet methods or a vacuum equipped with a high efficiency particulate (HEPA) filter.
- Comply with all requirements of Part 603 with regard to air monitoring, compliance program, use of protective work clothing and equipment, housekeeping, hygiene facilities, medical surveillance and medical removal protection, employee information and training, warning signs, and record keeping.
- If engineering and work practice controls cannot be used or do not reduce exposure to an acceptable level, then the employer must provide respiratory protection. The type of respiratory protection required is based on the level of exposure determined by air monitoring. The minimum recommended respirator required is a half mask, air-purifying respirator with HEPA filters. Remember, the employer must then implement a respiratory protection program as required by MIOSHA Part 451, Respiratory Protection.
- If respirators are used to protect employees, then a regulated area should be established to prevent unprotected employees from entering the exposure area.

For additional information regarding the hazards of lead and the measures that can be implemented to protect employees from exposure, you can visit the following web sites at:

OSHA, Safety and Health Topics, Construction - Lead
NIOSH, Preventing Lead Poisoning in Construction Workers
NIOSH, Protecting Workers Exposed to Lead-Based Paint Hazards

LARA is an equal opportunity employer/program.
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.

MIOSHA Fact Sheet

Construction Safety & Health Division

Cadmium Exposure in Construction, General Industry, & Agriculture

MIOSHA, Part 309, Cadmium applies to construction, and general industry/ agricultural operations. Some of the rules and sub rules apply only to one area or the other. ***Therefore, a careful review of the standard is necessary.*** The following requirements apply to both areas unless otherwise designated.

Cadmium is a toxic metal commonly found in both manufacturing and construction workplaces. In its elemental form, cadmium is either a blue-white metal or a grayish-white powder found in lead, copper, and zinc sulfide ores. Due to its low permissible exposure limit (PEL), overexposures may occur even in situations where only trace quantities of cadmium are found.

Cadmium is found in some industrial paints and may represent a hazard when sprayed. Operations involving removal of cadmium paints by scraping or abrasive blasting may also pose a significant hazard. Cadmium emits a characteristic brown fume (CdO) upon heating, which is relatively non-irritating, and thus does not alarm the exposed individual.

A primary use of cadmium is as an anti-corrosive. It may be found in anti-fouling or anti-rust paints and is sometimes electroplated onto steel, nuts, bolts and rivets. Cadmium may also serve as an electrode component in alkaline batteries and may be used in alloys, silver solders and welding. Welding on cadmium-containing alloys or working with silver solders containing cadmium can unsuspectingly cause acute illness.

When paint chip samples are submitted to the MIOSHA laboratory for lead analysis, a multiple metal-scan that includes analysis for cadmium is performed. If cadmium is detectable, the applicable rules of Part 309, Cadmium must be addressed.

Health Effects:

Acute (short term)— Metal fume fever may result from acute exposure with flu-like symptoms of weakness, fever, headache, chills, sweating and muscular pain. Acute pulmonary edema usually develops within 24 hours and reaches a maximum by three days. If death from asphyxia does not occur, symptoms may resolve within a week.

Chronic (long term) — the most serious consequence of chronic cadmium poisoning is cancer (lung and prostate). The first observed chronic effect is generally kidney damage, manifested by excretion of excessive (low molecular weight) protein in the urine. Cadmium also is believed to cause pulmonary emphysema and bone disease (osteomalacia and osteoporosis). Cadmium exposure may also cause anemia, teeth discoloration and loss of smell (anosmia).

Employer Responsibilities:

Manufacturing operations that use or produce materials or products containing cadmium must assess exposure to cadmium. Construction or maintenance activities that may result in exposure to cadmium include, but are not

limited to, demolition, renovation and salvaging structures where cadmium or cadmium-containing materials are present; cutting, brazing, grinding, or welding on surfaces that are painted or coated with cadmium-containing compounds; and transporting, storing, and disposing of cadmium or cadmium-containing materials on site or location at which construction activities are performed.

Following are requirements of Part 309; many are triggered by the level of employee exposure to cadmium:

- An employer whose workplace or work operation involves cadmium in any way must determine if any employee may be exposed to cadmium at or above the Action Level (AL) of 2.5 micrograms per cubic meter of air (µg/m3). An employer must identify which employees potentially are exposed to cadmium at or above the AL and must conduct exposure monitoring to determine what the exposure levels are.
- *In construction*, before performing work where employees may be exposed to cadmium, an employer must establish the applicability of the rules by determining whether cadmium is present in the workplace. The employer must designate a competent person to make this determination. A "competent person" means a person who is designated by an employer to act on the employer's behalf, who is capable of identifying existing and potential cadmium hazards in the workplace and the proper methods to control the hazards to protect workers, and who has the authority necessary to take prompt corrective measures to eliminate or control such hazards.
- All employees who may be exposed to cadmium must be provided training in accordance with the standard.
- When employee exposures are determined to be at or in excess of the AL, the employer must implement periodic air monitoring [see Part 309, Rule 5 (5) & (6)].
- Employee exposures in excess of the PEL of 5 µg/m3 require additional actions including, the establishment of regulated areas with warning signs, the application of engineering and work practice controls, the implementation of a written compliance program, the use of respiratory protection, the use of protective work clothing and equipment, and the use of hygiene facilities (i.e., change areas, shower and hand washing facilities, and eating facilities).
- Medical surveillance is required for employees exposed above the AL for 30 or more days per year.
- *In construction*, Part 309, Rule 18 delineates additional requirements for medical monitoring for employees who perform any of the tasks specified in Rule 18(2)(b)(i-ix) for 30 or more days during a 12 consecutive month period.

How to Avoid Hazards

When employees are exposed above the PEL, the employer must develop a compliance program that includes engineering and work practice controls. The best way to prevent over-exposure to cadmium is to install and maintain engineering controls to eliminate or reduce the hazard. Examples of engineering and other controls include:

- Conduct bulk material analysis to determine if cadmium is present.
- Provide interim protection (i.e., respirator and protective equipment, gloves, coveralls, etc.) until air monitoring determines exposure levels.
- Use exhaust ventilation and dust collection systems. For example, power tools used for grinding surfaces coated with cadmium containing paint can be equipped with localized exhaust ventilation dust collection systems.
- Do not dry sweep or use compressed air to clean work areas contaminated with cadmium materials; use wet methods or a vacuum equipped with a high efficiency particulate (HEPA) filter.

- Comply with all requirements of Part 309 with regard to air monitoring, regulated areas, compliance program, use of protective work clothing and equipment, housekeeping, hygiene facilities, medical surveillance and medical removal protection, employee information and training, warning signs, and record keeping.
- If engineering and work practice controls are not effective in reducing exposure to an acceptable level, then the employer must provide respiratory protection. The type of respiratory protection required is based on the level of exposure determined by air monitoring. The minimum respirator required is a half mask, air-purifying respirator with HEPA filters. When respirators are used, the employer must then implement a respiratory protection program as required by **MIOSHA Part 451, Respiratory Protection.**

For additional information regarding the hazards of Cadmium, please contact the Construction Safety and Health Division at 517-322-1856, the General Industry Safety & Health Division at 517-322-1831, or the Consultation Education and Training Division at 517-322-1809. MIOSHA Standards can be viewed on the MIOSHA website at www.michigan.gov/mioshastandards.

Additional information regarding the hazards of cadmium and measures that can be implemented to protect employees is available on the following web sites:

http://www.osha.gov/doc/outreachtraining/htmlfiles/cadmium.html
http://www.cdc.gov/niosh/topics/cadmium

LARA is an equal opportunity employer/program.
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.