



NESHAP HAZARDOUS BUILDING MATERIALS INSPECTION REPORT

Report Prepared For:
Kent ISD

Project Site:

Howard Christensen Nature Center

Project Dates:

September 1, 2026

MicroAir Project No.: MA-128-25

September 17, 2026
Project No.: MA-134-26

Mr. Russell Bray
Facilities Director
Kent Intermediate School District
2930 Knapp Street, NE
Grand Rapids, MI 49525



13351 Oakcrest Avenue
Gowen, MI 49326
Phone: 616-302-0819

Web: microairconsulting.com
Email: microairconsulting@gmail.com

**RE: NESHAP Hazardous Building Materials Inspection at
Howard Christensen Nature Center**

Dear Mr. Bray:

MicroAir Consulting, LLC (MicroAir) is pleased to submit this NESHAP Hazardous Building Materials Inspection Report for Howard Christensen Nature Center (HCNC). HCNC is located at 16160 Red Pine Drive in Kent City, Michigan. The inspection was conducted on September 1st, 2026.

Please find the enclosed inspection report and supporting documents including our inspection procedures, findings, sample results, and conclusions. This report is for the explicit use of Kent Intermediate School District. This document is not intended to be used as an asbestos project design or abatement specification.

MicroAir is glad to be of service to you and your team. If you have any questions or require additional information, please contact me at 616-302-0819 or microairconsulting@gmail.com.
Thank you.

Sincerely,

MicroAir Consulting, LLC

A handwritten signature in black ink that reads "Christian T. Decker". The signature is written in a cursive, flowing style.

Christian T. Decker, MS
Industrial Hygienist



Kent Intermediate School District

Howard Christensen Nature Center

NESHAP Hazardous Building Materials Inspection



Report prepared by:

Christen T. Decker

Chris Decker, MS

Industrial Hygienist

Michigan Asbestos Building Inspector, A26685

MicroAir Consulting, LLC

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1.0 EXECUTIVE SUMMARY

MicroAir Consulting was retained by Kent Intermediate School District to conduct a NESHAP Hazardous Building Materials Inspection of Howard Christensen Nature Center (HCNC). The NESHAP inspection was conducted at the Red Pine Center (Interpretive Center) and the Welcome Center on September 1, 2026.

Asbestos bulk samples were collected of suspect building materials at the Red Pine and Welcome Centers. The samples collected were from 21 homogeneous area building materials identified within HCNC as part of the NESHAP asbestos inspection. **Two (2) suspect materials at the Red Pine Center (light heat shield and brown 12"x12" vinyl flooring) were found to be asbestos-containing.**

A table of the building materials containing asbestos and assumed asbestos-containing building materials can be found in this report. Appendix A of the report contains the analytical lab results.

The asbestos-containing building materials, identified in this NESHAP inspection report, that may be disturbed during demolition or renovation activities are required to be removed prior to the commencement of such activities. If suspect ACMs not identified within the report are encountered during demolition or renovation activities for which no analytical data exists, we recommend the material(s) remain undisturbed until the asbestos content of the material(s) is determined in accordance with the United States Environment Protection Act (USEPA) and Occupational Safety and Health Administration (OSHA) regulations.

2.0 INTRODUCTION

MicroAir Consulting was retained by Kent Intermediate School District to conduct a NESHAP hazardous building materials inspection of HCNC. The inspections intent was to identify asbestos-containing building materials and identify building materials which may be disturbed in any scheduled upcoming renovation or demolition activities. Prior to any renovation/demolition, an inspection is required by the USEPA under the National Emission Standard for Hazardous Air Pollutants (NESHAP) standard and enforced by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) in the State of Michigan. The inspection was conducted by Mr. Chris Decker, a State of Michigan Accredited Building Inspector (A26683) on September 1st, 2026.

HCNC was constructed in 1976. Renovations have taken place in the past at HCNC.

3.0 ASBESTOS

3.1 Inspection and Sampling Procedures

MicroAir Consulting conducted a visual assessment, identified, and estimated quantities of suspect ACMs associated with HCNC, and assigned a homogenous area number to each suspect ACM observed. A homogenous area, as defined by USEPA's Asbestos Hazard Emergency Response Act (AHERA, 40 CFR Part 763), is an area of thermal system insulation (TSI), surfacing material, or miscellaneous material that appears uniform in color and texture.

The asbestos bulk samples were submitted to Apex Research, Inc., which is an accredited laboratory by the National Voluntary Laboratory Accreditation Program (NVLAP), for asbestos analysis of the bulk samples via Polarized Light Microscopy (PLM). Results of the submitted asbestos bulk samples are presented in Appendix A.

3.2 Findings and Conclusions

The following table identifies the **confirmed positive for asbestos homogeneous building materials** at HCNC. The table provides the building materials' corresponding identification number, location, and estimated quantity of each identified ACM at HCNC:

Asbestos-Containing Materials at Red Pine Center (Confirmed Positive)		
HA #	Materials Description	Location / Est. Qty.
RPC-8	Light heat shield	Entry (1 fixture)
RPC-17	Brown 12"x12" floor tile (mastic non-detect)	Break room and storage closet (850 square feet)

The following table identifies the suspect homogeneous building materials that tested negative (None Detected) for asbestos at HCNC:

Tested Building Materials Resulting in Non-Detect for Asbestos at the Red Pine Center and the Welcome Center		
HA #	Materials Description	Est. Qty.
RPC-1	Cream 12"x12" vinyl flooring and mastic	>1,000 square feet
RPC-2	Vinyl base molding	>1,000 linear feet
RPC-3	Ceramic grout	<500 linear feet
RPC-4	Mudded pipe fittings	<100 linear feet
RPC-5	2'x4' ceiling tile	<1,000 square feet
RPC-6	Hard plaster ceiling	<2,000 square feet
RPC-7	Drywall, tape, and mud	<2,000 square feet
RPC-9	Insulated paper in boiler (removed)	<100 square feet
RPC-10	Wallboard glue pods	<100 square feet
RPC-11	Chimney materials	<100 square feet
RPC-12	Roofing materials	>1,000 square feet
RPC-13	Tagged fire doors	<10 doors
RPC-14	Concrete	>1,000 square feet
RPC-15	Exterior caulk	<100 linear feet
RPC-16	Sink undercoating	<3 sinks
Welcome Center		
WB-1	Roofing materials	>1,000 square feet
WB-2	Concrete	>1,000 square feet
WB-3	Exterior caulk	<100 linear feet
WB-4	Block mortar	<100 linear feet

Quantities in the tables above represent building materials that were accessible at the time of the inspection. Additional quantities and building materials may exist that were not accessible at the time of the inspection based on the project scope. Refer to the tables and appendices of this inspection report for further information and details. Hidden asbestos materials may be present in walls or above ceilings.

4.0 REGULATORY COMPLIANCE AND OBLIGATIONS

The OSHA Asbestos Standard for Construction, (29 CFR 1926.1101), MIOSHA Part 305, and the OSHA Asbestos Standard for General Industry, (29 CFR 1910.1001), requires that all building facilities (excluding owner-occupied residential homes) constructed prior to 1981, where employees may enter, work, or contact building materials must be inspected for asbestos-containing building materials.

Buildings scheduled for renovation or demolition must have an asbestos building inspection completed prior to the start of the renovation or demolition. The inspection must be performed by a Michigan accredited asbestos building inspector. The building inspections must also include the presence, location, and quantity of all suspected building materials.

The Michigan Asbestos Abatement Contractors Licensing Act (i.e., Act 135, P.A. 1986, as amended) requires asbestos abatement contractors to notify the Michigan Labor and Economic Opportunity (MLEO) Asbestos Program of any asbestos abatement project exceeding 10 linear feet or 15 square feet, or both, of friable asbestos building materials. This requires a 10-calendar day notice.

The Notification of Intent to Demolish form required by the USEPA NESHAP regulations must be prepared and submitted to EGLE at least 10 working days prior to demolition of a building, regardless of whether or not ACMs are present in the building. If ACM is present and included for removal and the quantity is greater than 260 linear feet and/or 160 square feet, a 10 working-day notice is required.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The asbestos-containing building materials identified at HCNC during this inspection are as follows:

- **Red Pine Center – Light heat shield**
- **Red Pine Center – Brown 12"x12" floor tile**

If these materials are to be disturbed during renovation/demolition activities, they are required to be removed prior to the commencement of those activities by a State of Michigan accredited asbestos abatement contractor.

MicroAir recommends that the asbestos-containing building materials identified in this inspection that may be disturbed during the demolition activities be handled and removed by a State of Michigan accredited asbestos abatement contractor due to the required training, engineering controls, and best industry practices.

If suspect ACMs not identified within the report are encountered during demolition activities for which no analytical data exists, we recommend the material(s) remain undisturbed until the asbestos content of the material(s) is determined in accordance with USEPA and OSHA regulations. Our estimated quantities and other information in this inspection report should not be used as an exclusive source of information for bid formulation or for notification to regulatory agencies.

Any contractor performing work within the building must have adequate and up-to-date asbestos and lead awareness training. The building owner is obligated to inform any contractors that asbestos was detected at the project site and provide them with a copy of the analytical report.

6.0 LIMITATIONS

Materials may be found inside wall cavities and in ceiling cavities that were inaccessible at the time of the inspection. In conducting the ACM inspection there are a number of obstacles and limitations that can affect the final outcome of the report. These limitations include but are not limited to the following factors: access concerns, materials that cannot be intrusively sampled or damaged, materials that have been replaced by renovation activities, materials with conflicting laboratory results, and materials that are located in inaccessible and/or concealed areas which limits its quantification. Due to these limitations, the results of this investigation cannot be construed as a certification of the presence or absence of ACM, beyond the materials identified, but rather a diligent and prudent review of available data within an established work scope, and time and budgetary constraints.

If you have any questions or require additional information, please contact me at 616-302-0819 or microairconsulting@gmail.com. Thank you.

End of report



APPENDIX A

Analytical Reports

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project: KISD - HCNC



Report To:

Mr. Chris Decker
MicroAir Consulting
13351 Oakcrest Ave.
Gowen, MI 49326

ARI Report # 26-126186
Date Collected: 09/01/26
Date Received: 09/04/26
Date Analyzed: 09/09/26
Date Reported: 09/09/26

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 126186 - 01 Cust. #: WB-1 Material: Welcome Center - Roofing Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 30% Other - 70%
Lab ID #: 126186 - 01a Cust. #: WB-1 Material: Shingle Location: Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 30% Other - 70%
Lab ID #: 126186 - 02 Cust. #: WB-4 Material: Concrete Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 40 CFR - Part 763 and/or EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples as submitted and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Liability limited to cost of analysis.



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Date Received: 09/04/26
Date Analyzed: 09/09/26
Date Reported: 09/09/26

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 126186 - 03 Cust. #: WB-5 Material: Exterior Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 126186 - 04 Cust. #: WB-6 Material: Concrete Block Mortar Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 126186 - 05 Cust. #: RPC-1 Material: 12"x12" Cream Vinyl Floor Tile Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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NVLAP Lab Code 102118-0

APEX Research Inc., 7717 Kensington Ct., Brighton, MI 48116
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project: KISD - HCNC



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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 126186 - 05a Cust. #: RPC-1 Material: Adhesive Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 126186 - 06 Cust. #: RPC-2 Material: Vinyl Base Molding Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 126186 - 07 Cust. #: RPC-3 Material: Ceramic Grout Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 126186 - 08 Cust. #: RPC-12 Material: Roofing Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 30% Other - 70%
Lab ID #: 126186 - 08a Cust. #: RPC-12 Material: Shingle Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 30% Other - 70%
Lab ID #: 126186 - 09 Cust. #: RPC-14 Material: Concrete Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Analyzed: 09/09/26
Date Reported: 09/09/26

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 126186 - 10 Cust. #: RPC-15 Material: Exterior Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 126186 - 11 Cust. #: RPC-16 Material: Sink Undercoating Location: Appearance: pink,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 126186 - 12 Cust. #: RPC-17 Material: 12"x12" Brown Vinyl Floor Tile Location: Appearance: beige,fibrous,homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 2%	Other - 98%

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Date Reported: 09/09/26

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 126186 - 12a Cust. #: RPC-17 Material: Mastic Location: Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : Red Pine Center



Report To:

Mr. Chris Decker
MicroAir Consulting
P.O. Box 908
Greenville, MI 48838

ARI Report # 22-98402
Date Collected: 02/14/22
Date Received: 02/18/22
Date Analyzed: 02/21/22
Date Reported: 02/21/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 98402 - 01 Cust. #: RPC-5 Material: 2'x4' Ceiling Tile Location: Appearance: beige,fibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 5% Fiberglass - 20% Other - 45%
Lab ID #: 98402 - 01a Cust. #: RPC-5 Material: Foam Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 98402 - 02 Cust. #: RPC-6-1 Material: Hard Plaster Ceiling/Textured Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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NVLAP Lab Code 102118-0

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 98402 - 02a Cust. #: RPC-6-1 Material: Plaster Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 98402 - 03 Cust. #: RPC-6-2 Material: Hard Plaster Ceiling Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 98402 - 04 Cust. #: RPC-6-3 Material: Hard Plaster Ceiling/Textured Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 98402 - 04a Cust. #: RPC-6-3 Material: Plaster Finish Coat Location: Appearance: white, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 98402 - 05 Cust. #: RPC-7-1 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 98402 - 06 Cust. #: RPC-7-2 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 98402 - 07
Cust. #: RPC-7-3
Material: Drywall
Location:
Appearance: beige, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 20%
Fiberglass - 5%
Other - 75%

Lab ID #:
Cust. #:
Material:
Location:
Appearance:
Layer: of

Asbestos Present:

Lab ID #:
Cust. #:
Material:
Location:
Appearance:
Layer: of

Asbestos Present:

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