



February 22, 2023

Mr. Garrett Foley
Regional Construction Manager
The Kroger Co.
40393 Grand River Avenue
Novi, Michigan 48375

**RE: Asbestos Survey Report
Kroger Store D-365 Renovation
3615 Washtenaw Avenue
Ann Arbor, Michigan
Project No. 328-205.0001**

Dear Mr. Foley:

Civil & Environmental Consultants, Inc. (CEC) was retained by The Kroger Co. (Kroger) to conduct an asbestos-containing material (ACM) survey at the Kroger Store D-365 Renovation in Ann Arbor, Michigan (subject property). The survey was conducted in accordance with CEC Proposal No. 328-205, and authorized via Kroger Purchase Order No. 786305, dated January 26, 2023. CEC understands that this asbestos survey was requested due to planned renovation of the subject property structure.

CEC's subcontractor, Micro Air Inc. (Micro Air), conducted the survey on February 9, 2023. The survey was conducted in general accordance with The Kroger Co., Asbestos-Containing Materials Scope of Work and Report Requirements (dated January 2022), the USEPA Asbestos National Emissions Standard for Hazardous Air Pollutants (NESHAP; 40 CFR Part 61, Subpart M) and the sample collection protocols established in EPA regulation 40 CFR 763, the Asbestos Hazard Emergency Response Act (AHERA). The Micro Air report is attached and must be read in its entirety for a comprehensive understanding of the findings of the survey and recommendations.

PROJECT INFORMATION

The building was constructed in 2000 and encompasses approximately 58,475 square-feet under roof. The building was constructed on a concrete slab foundation supporting concrete block and brick exterior walls, with metal roof joists and a corrugated metal roof deck. Interior finishes consists of wallboard and concrete block walls. Ceilings were suspended acoustical ceiling tiles or exposed roof joists. Floors were carpet, vinyl or ceramic tile, or concrete. The roofing system consisted of a rubber membrane over isocyanate panels and associated sealants.

The subject property consisted of Kroger Store D-365 and asphalt parking lot. The Kroger Store consisted of a grocery sales area, department preparation areas, pharmacy, office area, and a warehouse. Mezzanine areas consist of a mechanical area. Additional tenants within the Kroger Store included Citizens Bank.

Per Kroger's request, the roofing system was not included in the survey. In addition, the Citizens Banks tenant space was not sampled, as it was closed at the time of site survey).

FIELD ACTIVITIES

CEC's subcontractor, Micro Air Inc. (Micro Air), utilizing a Michigan-licensed asbestos inspector, conducted the survey. The survey was limited to accessible areas and destructive sampling (e.g., breaking into wall voids) was not conducted. Survey activities began with a visual inspection of interior and exterior (excluding roofs) areas of the subject property to identify homogeneous areas of suspect asbestos-containing materials (ACM). A homogeneous area (HA) consists of building materials that appear similar throughout in terms of color, texture and consideration of date of installation or application.

Based on the findings of the visual inspection, bulk samples of suspect ACM were collected in general accordance with AHERA sample collection protocols. Bulk samples were collected of the following suspect materials: brick mortar, brick expansion joint, concrete block mortar, concrete block expansion joint, window/door frame caulk, window glazing, exterior wall foundation caulk, exterior finishing system, bare concrete slab, ceramic floor tile grout, clay tile grout, ceramic tile grout, plastic wall adhesive, gasket material on cooler/freezer walls, drywall and joint compound, 2' x 4' ceiling tile (two patterns), vinyl base molding and adhesive, woodgrain pattern linoleum flooring and adhesive, and 12" x 12" vinyl floor tile and mastic (eight patterns).

Bulk samples were submitted under chain of custody to a laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for analysis by polarized light microscopy (PLM) with dispersion staining techniques per EPA's Method for the Determination of Asbestos in Bulk Building Materials (600/R-93-116).

REGULATORY OVERVIEW

The State of Michigan Department of Environmental Quality (MDEQ), Air Division enforces the USEPA Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP, 40 CFR Part 61, Subpart M). The Asbestos NESHAP regulates asbestos fiber emissions, asbestos waste disposal practices, and requires the identification and classification according to friability of existing ACM prior to demolition or renovation activity.

Asbestos abatement notifications for all demolition and renovation activities involving the removal or disturbance of RACM and non-friable ACMs should be submitted to the Michigan Department of Environmental Quality (MDEQ) and LARA at least 10-working days prior to the commencement of project activities. If remodeling/renovation efforts include repair, removal or replacement of “load bearing” structural members, this is considered demolition and a 10-day notification to the local municipal agency may be required.

FINDINGS

One hundred twenty-two bulk samples of suspect ACMs were collected during the inspection and submitted to an accredited laboratory for analysis by PLM. Asbestos was not identified in the samples collected and analyzed.

RECOMMENDATIONS

Based on the results of this asbestos survey, CEC does not recommend additional inspection or assessment activities for the subject property building. However, suspect materials, other than those identified during this asbestos survey may exist within the building. Should suspect materials other than those which were identified during this survey be uncovered during demolition/renovation, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny asbestos content.

GENERAL COMMENTS

This report has been prepared for the exclusive use and reliance of The Kroger Co. and its subsidiaries and affiliates and its authorized representatives (Users), who may solely rely upon the conclusions presented herein. Reliance on this Asbestos Survey by the Users and all authorized parties will be subject to the terms, conditions and limitations stated in the Professional Services and Consulting Agreement (PSCA) signed by Civil & Environmental Consultants, Inc. and the Kroger Co. General Offices (G.O.) on June 20, 2019. The use or reliance by a third party is not permitted without the specific written permission of both the CEC and Kroger. ***This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary.*** CEC does not

Asbestos Hazard Survey
Kroger Store D-365 Renovation
Ann Arbor, MI
February 22, 2023

warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

CEC appreciates the opportunity to serve The Kroger Co. on this project. Please call us if we can be of any further assistance.

Sincerely,
Civil & Environmental Consultants, Inc.



Bryan N. Gatlin
Senior Environmental Scientist



Deborah J. Blankenship, RG, PG, CPG
Principal

Attachment

Micro Air Renovation Asbestos Survey Report

cc: Cliff Brown, The Kroger Co.
Marty Cristo, The Kroger Co.
Peg Chandler, The Kroger Co.
Brett Smollen, The Kroger Co.
Stephanie Barlow, The Kroger Co.

ATTACHMENT

2023

NESHAP Renovation Asbestos Survey Report

For

**Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104**

Prepared For:

Civil & Environmental Consultants, Inc.

3000 Little Hills Expressway, Suite 102

St. Charles, MO 63301

Attn: Ms. Deborah J. Blankenship, P.G., R.G., Principal

Prepared By:



Micro Air, Inc.

6320 La Pas Trail

Indianapolis, Indiana 46268

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- 3) Asbestos Bulk Sample Location Drawing
- 4) Asbestos Bulk Sample Report/Chain of Custody
- 5) Certifications

TAB 1

ASBESTOS SURVEY REPORT



6320 LA PAS TRAIL, INDIANAPOLIS, INDIANA 46268
TELEPHONE: (317) 293-1533 FAX: (317) 290-3566

E-MAIL: microair@microair.com
WEB SITE: <http://www.microair.com>

Indoor Air Quality
Catastrophe Services
Microbiology
Asbestos Surveys
Air Monitoring
Industrial Hygiene
Epidemiology
Radon Testing
Water Testing
Lead Testing

February 22nd, 2023

Ms. Deborah J. Blankenship, P.G
Principal
Civil & Environmental Consultants, Inc.
3000 Little Hills Expressway; Suite 102
Saint Charles, MO 63301

**RE: Renovation Asbestos Inspection
Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Micro Air, Inc. Job #20-18981-D**

Dear Ms. Blankenship:

Micro Air, Inc. was contracted by Civil & Environmental Consultants, Inc. to conduct an asbestos inspection of the Kroger Store D-365 located at 3615 Washtenaw Avenue in Ann Arbor, Michigan. Mr. Donald G. French of Micro Air, Inc. (State of Michigan asbestos inspector accreditation number A11834, Exp. Date: 03/07/2023) conducted the inspection on February 9th, 2023. The survey was conducted in order to accommodate renovation of the existing Kroger Store at the site.

All survey work was conducted following guidelines established under the EPA National Emission Standard for Asbestos (40 CFR 61 Subpart M) and the EPA "Asbestos Hazard Emergency Response Act (AHERA)" (40 CFR 763 subpart E). **Sampling of the roofing system was not conducted during the course of the survey per the request of Civil & Environmental Consultants, Inc. No access to the Citizens Bank space was made available during the course of the survey.**

All bulk samples collected during the inspection were submitted to Micro Air, Inc.'s laboratory for analysis. All bulk samples were analyzed utilizing the EPA approved Polarized Light Microscopy method (EPA Method/600/R-93/116). Following is a synopsis of the findings of the survey:

**Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104**

The building was purchased in 2002 and converted into a Kroger store from the original retail space. The building contains approximately 58,475 square feet of floor space. Multiple interior renovations have apparently been conducted prior to this inspection. The retail space is constructed of concrete block and brick with exterior finishing system fascia, aluminum soffits, aluminum door and window system, concrete block walls and structural steel supporting a corrugated metal roof deck. A non-suspect, rubber membrane roofing system was identified at the site.

Interior finishes consist of drywall interior walls, drop acoustical tile ceilings and carpet, sheet flooring, vinyl floor tile and ceramic tile applied over poured concrete floors. A compressor room was identified on the mezzanine level of the store. Administrative offices, a Citizens Bank, a break room and an ECR room were identified on the ground level of the store.

Domestic water and refrigerant lines throughout the building are insulated with either non-suspect armaflex or fiberglass insulation. Non-suspect wood was identified at interior cooler walls throughout the building. The building is heated by rooftop gas units with supplemental electric cooling.

The following potential, asbestos-containing materials were identified at the retail space and sampled for asbestos content during the inspection:

1. Brick mortar
2. Brick expansion joint
3. Concrete block mortar
4. Concrete block expansion joint
5. Window/door frame caulk
6. Window glazing
7. Exterior wall foundation caulk
8. Exterior finishing system
9. Bare concrete slab
10. Ceramic floor tile grout
11. Clay tile grout
12. Ceramic wall tile grout
13. Plastic wall adhesive
14. Gasket material on cooler/freezer walls
15. Perimeter drywall and associated joint compound
16. Interior drywall and associated joint compound
17. 2' x 4' Ceiling tile (two patterns)
18. Vinyl base molding and adhesive
19. Woodgrain pattern linoleum flooring and adhesive
20. 12" x 12" Vinyl floor tile and mastic (eight patterns)

Ms. Deborah Blankenship, P.G, principal
Civil & Environmental Consultants, Inc.
Renovation Asbestos Inspection– Existing Kroger Store D-365
3615 Washtenaw Avenue, Ann Arbor, Michigan 48104
Micro Air, Inc. Job #20-18981-D
February 22nd, 2023
Page 3

The results of laboratory analysis indicated no asbestos-containing materials present within the Kroger Store D-365 located at 3615 Washtenaw Avenue in Ann Arbor, Michigan.

Enclosed is a copy of the laboratory bulk sample reports/chain of custody logs, bulk sample location drawings, photographs of materials sampled and inspector/laboratory certifications.

Thank you for the opportunity to provide our asbestos related services. If you have any questions concerning this report or need additional information, please do not hesitate to contact me.

Respectfully submitted,

A handwritten signature in black ink that reads "Donald G. French". The signature is written in a cursive, flowing style.

Donald G. French
Asbestos Inspector
Micro Air, Inc.

TAB 2

PHOTOGRAPHS



Existing Kroger Store D-365

3615 Washtenaw Avenue

Ann Arbor, Michigan 48104

Exterior Photo



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Exterior Fascia
Brick Mortar and Expansion Joint
No Asbestos Detected



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Loading Dock and Warehouse Areas
Concrete Block Mortar and Expansion Joint
No Asbestos Detected



Existing Kroger Store D-365

3615 Washtenaw Avenue

Ann Arbor, Michigan 48104

Exterior – South Side

Window/Door Frame Caulk

No Asbestos Detected



Existing Kroger Store D-365

3615 Washtenaw Avenue

Ann Arbor, Michigan 48104

Exterior – South Side

Window Glazing

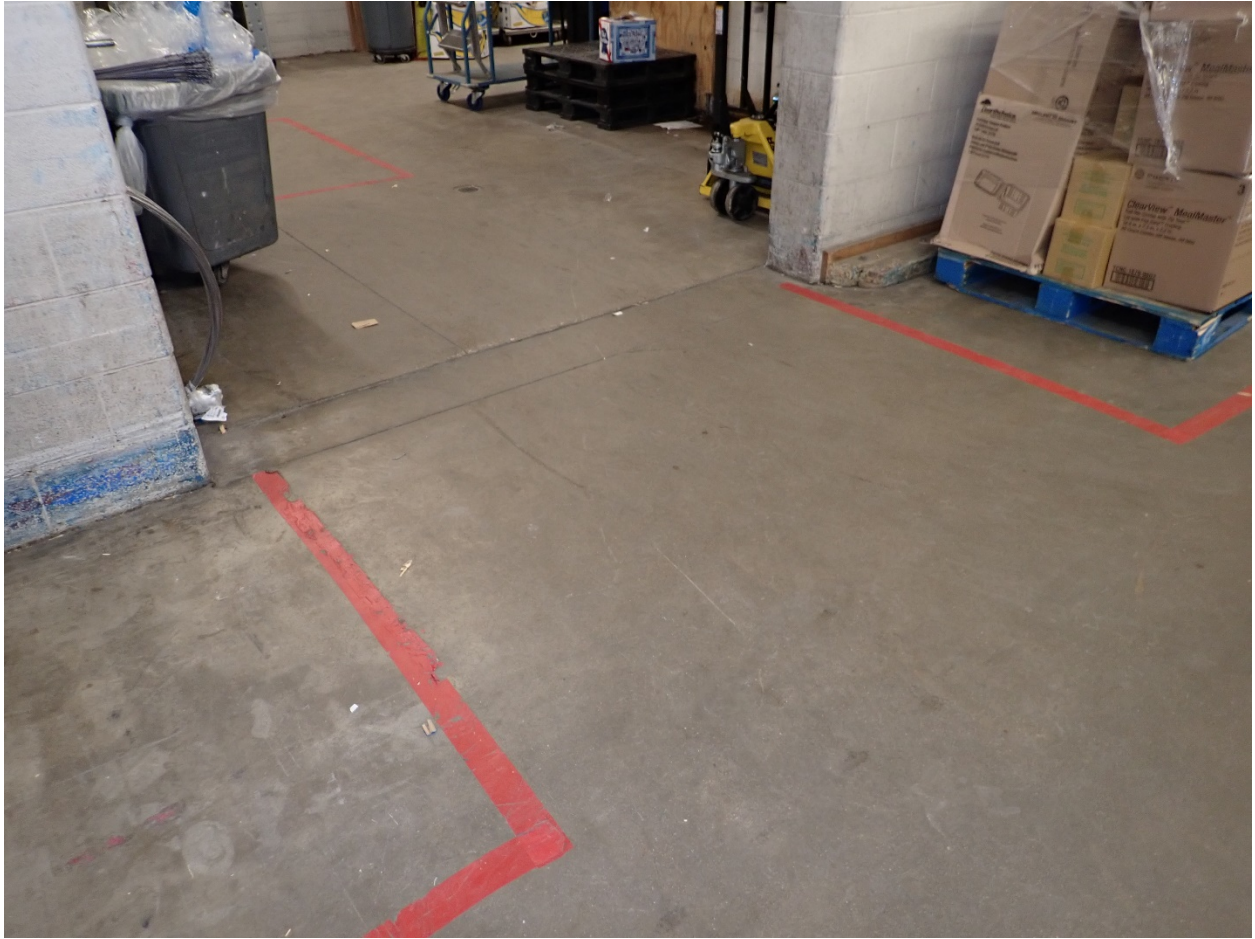
No Asbestos Detected



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Exterior Perimeter at Base of Walls
Foundation Wall Caulk
No Asbestos Detected



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Exterior South Side Upper Wall
EFS
No Asbestos Detected



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Loading Dock and Warehouse Areas
Bare Concrete Slab Flooring
No Asbestos Detected



Existing Kroger Store D-365

3615 Washtenaw Avenue

Ann Arbor, Michigan 48104

Foyers

Ceramic Floor Tile Grout

No Asbestos Detected



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Floral Cooler and Food Preparation Areas
Clay Tile Grout
No Asbestos Detected



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Restrooms and Food Prep Areas
Ceramic Wall Tile Grout
No Asbestos Detected



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Lower Walls of Foyer and Store Floor
Adhesive on Plastic Wall Covering
No Asbestos Detected



Existing Kroger Store D-365

3615 Washtenaw Avenue

Ann Arbor, Michigan 48104

Metal Coolers / Freezers

Gasket at Cooler Walls

No Asbestos Detected



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Exterior Soffit and Perimeter Walls
Perimeter Drywall and Associated Joint Compound
No Asbestos Detected



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Interior Walls
Interior Drywall and Associated Joint Compound
No Asbestos Detected



Existing Kroger Store D-365

3615 Washtenaw Avenue

Ann Arbor, Michigan 48104

East Foyer, Store Floor, Lunch Room, Employee Restrooms

2' x 4' Fissure Pattern Ceiling Tile

No Asbestos Detected



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Food Prep Areas
2' x 4' Drywall Pattern Ceiling Tile
No Asbestos Detected



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Store Floor
Brown Vinyl Base Molding and Adhesive
No Asbestos Detected



Existing Kroger Store D-365

3615 Washtenaw Avenue

Ann Arbor, Michigan 48104

Bakery, Produce Department, and Middle Aisle of Store Floor

Woodgrain Linoleum Flooring and Adhesive

No Asbestos Detected



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Western Side of Store Floor
12" x 12" Swirl Pattern Floor Tiles and Mastics
No Asbestos Detected



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Store Floor
12" x 12" Swirl Pattern Floor Tiles and Mastics
No Asbestos Detected



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Southern Side of Store Floor
12" x 12" Swirl Pattern Floor Tiles and Mastics
No Asbestos Detected



Existing Kroger Store D-365

3615 Washtenaw Avenue

Ann Arbor, Michigan 48104

Bakery, Meat & Seafood Prep

12" x 12" White with Black Speck and Dot Pattern Floor Tiles and Mastics

No Asbestos Detected



Existing Kroger Store D-365

3615 Washtenaw Avenue

Ann Arbor, Michigan 48104

Citizens Bank

2' x 4' Ceiling Tile (2' x 2' Pattern), Drywall Walls, and Carpet Tile Flooring

No Access - No Employees On-Site, No Samples Collected

The Bank Occupies Approximately a 6' x 8' Space on the Store Floor



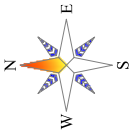
Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Roof
Rubber Membrane Roofing System



Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Warehouse Areas
Non-Suspect Rubber Pipe Insulation

TAB 3

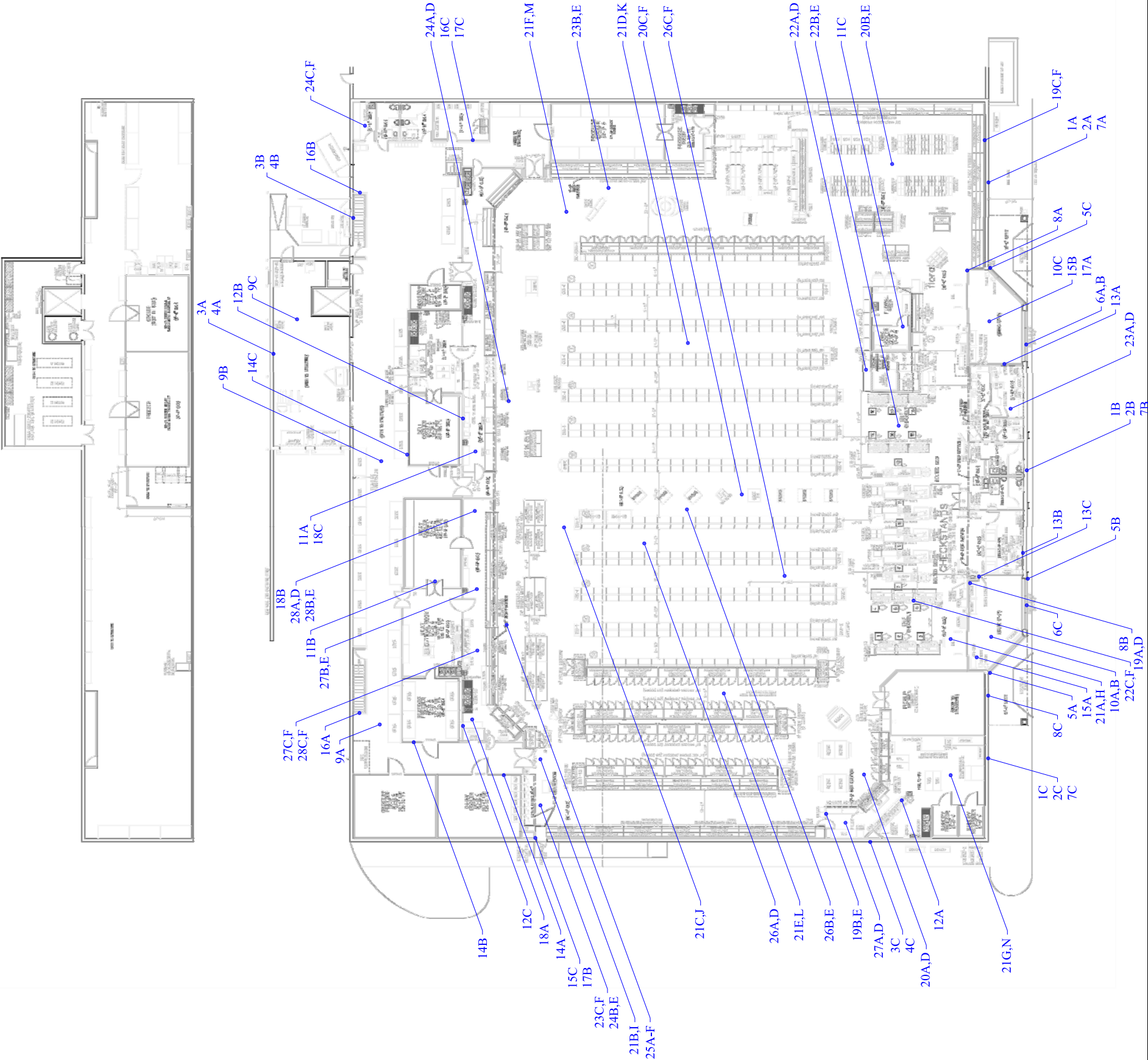
ASBESTOS BULK SAMPLE LOCATION DRAWING



Date:	February 2023
Scale:	None
Project Mgr.:	A.E.B.
Drawn By:	D.G.F.
Checked By:	A.E.B.

Micro Air, Inc.
6320 La Pas Trail
Indianapolis, Indiana 46268
(317) 293-1533

Existing Kroger Store D-365
3615 Washtenaw Avenue
Ann Arbor, Michigan 48104
Asbestos Bulk Sample Location Drawing
Drawing #: 20-18981-D SLD



TAB 4

ASBESTOS BULK SAMPLE REPORT/CHAIN OF CUSTODY



micro air inc.

6320 La Pas Trail, Indianapolis, IN 46268 * Phone: (317) 293-1533 * lab@microair.com * www.microair.com

February 20, 2023

Civil & Environmental Consultants
Deborah Blankenship
3000 Little Hills Expressway
Suite 102
St. Charles, MO 63301

Polarized Light Microscopy (PLM) Bulk Sample Results

Project Name: Kroger Store D-365
Project Number: 20-18981-D

Location: 3615 Washtenaw - Ann Arbor, MI
Date Received: February 15, 2023

Enclosed please find the results of samples analyzed by the Micro Air, Inc. laboratory.

Samples were analyzed by 40 CFR Part 763 Appendix E to Subpart E - Interim Method for the Determination of Asbestos in Bulk Insulation Samples using Polarized Light Microscopy (PLM) with Dispersion Staining. Where appropriate, analytical procedures outlined in the EPA Method/600/R-93/116, Method for the Determination of Asbestos in Bulk Building Materials (July 1993) may also be used during analysis. All samples may be heated to release fibrous material.

Samples are considered asbestos-containing material (ACM), as defined by the EPA, when asbestos is found in greater than 1% of the sample. Sample percentages are calculated using comparative visual estimation (CVES). Asbestos regulations and EPA methods state that distinct layers must be analyzed and reported separately. If composite analysis is requested and performed on multi-layered samples, the sample is considered ACM if any quantity of asbestos is found. This report should not be used to imply product or service endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Disclaimer: PLM results of non-friable organic bound (NOB) materials, such as floor tiles and roofing materials, can be inconclusive due to analytical difficulties in standard bulk sample analysis techniques. If desired, results can be confirmed with transmission electron microscopy (TEM) to ensure that asbestos has not been missed during PLM analysis.

This report may not be reproduced, except in full, without written approval from Micro Air, Inc. These results only relate to the items tested and are only as accurate as the sampling information submitted by the customer (e.g. air volumes). Samples are received in good condition unless otherwise noted.

Please consult your Project Manager, Donald French, with any questions regarding these results.

Analyzed By:

Makayla Ohrberg

Authorized By:

Betsie L. McAfee
Technical Manager

Client: Civil & Environmental Consultants
Report Date: 2/20/2023
Lab Number: 165855

Project Number: 20-18981-D
Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
001	1A	2/9/2023	2/15/2023	Brick Mortar; Exterior - S. Side, E. End	NO	G	YES	N/A	Binder 100%
002	1B	2/9/2023	2/15/2023	Brick Mortar; Exterior - S. Side, Middle	NO	G	YES	N/A	Binder 100%
003	1C	2/9/2023	2/15/2023	Brick Mortar; Exterior - S. Side, W. End	NO	G	YES	N/A	Binder 100%
004	2A	2/9/2023	2/15/2023	Brick Expansion Joint; Exterior - S. Side, E. End	NO	W	YES	N/A	Cellulose <1% Binder 100%
005	2B	2/9/2023	2/15/2023	Brick Expansion Joint; Exterior - S. Side, Middle	NO	W	YES	N/A	Cellulose <1% Binder 100%
006	2C	2/9/2023	2/15/2023	Brick Expansion Joint; Exterior - S. Side, W. End	NO	W	YES	N/A	Binder 100%
007	3A	2/9/2023	2/15/2023	Concrete Block Mortar; Warehouse - Loading Dock	NO	G	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
Report Date: 2/20/2023
Lab Number: 165855

Project Number: 20-18981-D
Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
008	3B	2/9/2023	2/15/2023	Concrete Block Mortar; Warehouse - E. Stairwell	NO	G	YES	N/A	Cellulose <1% Binder 100%
009	3C	2/9/2023	2/15/2023	Concrete Block Mortar; Exterior - W. Side	NO	G	YES	N/A	Cellulose <1% Binder 100%
010	4A	2/9/2023	2/15/2023	Concrete Block Expansion Joint; Warehouse - Loading Dock	NO	T	YES	N/A	Cellulose <1% Binder 100%
011	4B	2/9/2023	2/15/2023	Concrete Block Expansion Joint; Warehouse - E. Stairwell	NO	T	YES	N/A	Binder 100%
012	4C	2/9/2023	2/15/2023	Concrete Block Expansion Joint; Exterior - W. Side	NO	T	YES	N/A	Binder 100%
013	5A	2/9/2023	2/15/2023	Window/Door Frame Caulk; NW Foyer Door	NO	GR	YES	N/A	Cellulose <1% Binder 100%
014	5B	2/9/2023	2/15/2023	Window/Door Frame Caulk; NW Foyer Window	NO	GR	YES	N/A	Binder 100%

Client: Civil & Environmental Consultants
Report Date: 2/20/2023
Lab Number: 165855

Project Number: 20-18981-D
Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
015	5C	2/9/2023	2/15/2023	Window/Door Frame Caulk; SW Foyer Door	NO	GR	YES	N/A	Cellulose <1% Binder 100%
016	6A	2/9/2023	2/15/2023	Window Glazing; E. Foyer Window	NO	B	YES	N/A	Binder 100%
017	6B	2/9/2023	2/15/2023	Window Glazing; E. Foyer Window	NO	B	YES	N/A	Binder 100%
018	6C	2/9/2023	2/15/2023	Window Glazing; E. Foyer Window	NO	B	YES	N/A	Binder 100%
019	7A	2/9/2023	2/15/2023	Foundation Caulk; Exterior - S. Side, E. End	NO	BR	YES	N/A	Cellulose 80% Binder 20%
020	7B	2/9/2023	2/15/2023	Foundation Caulk; Exterior - S. Side, Middle	NO	B	YES	N/A	Cellulose 80% Binder 20%
021	7C	2/9/2023	2/15/2023	Foundation Caulk; Exterior - S. Side, W. End	NO	B	YES	N/A	Cellulose 80% Binder 20%

Client: Civil & Environmental Consultants
Report Date: 2/20/2023
Lab Number: 165855

Project Number: 20-18981-D
Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
022	8A	2/9/2023	2/15/2023	EFS; Exterior - S. Side, E. End	NO	BL - T	YES	N/A	Fiberglass 40% Binder 60%
023	8B	2/9/2023	2/15/2023	EFS; Exterior - S. Side, Middle	NO	BL - T	YES	N/A	Fiberglass 40% Binder 60%
024	8C	2/9/2023	2/15/2023	EFS; Exterior - S. Side, W. End	NO	BL - T	YES	N/A	Fiberglass 40% Binder 60%
025	9A	2/9/2023	2/15/2023	Bare Concrete Floor; Warehouse Area - W. End	NO	G - B	YES	N/A	Binder 100%
026	9B	2/9/2023	2/15/2023	Bare Concrete Floor; Warehouse Area - Middle	NO	G - B	YES	N/A	Binder 100%
027	9C	2/9/2023	2/15/2023	Bare Concrete Floor; Warehouse Area - Delivery	NO	G - B	YES	N/A	Binder 100%
028	10A	2/9/2023	2/15/2023	Ceramic Floor Tile Grout; W. Foyer	NO	G	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
Report Date: 2/20/2023
Lab Number: 165855

Project Number: 20-18981-D
Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
029	10B	2/9/2023	2/15/2023	Ceramic Floor Tile Grout; W. Foyer	NO	G	YES	N/A	Cellulose <1% Binder 100%
030	10C	2/9/2023	2/15/2023	Ceramic Floor Tile Grout; E. Foyer	NO	G	YES	N/A	Cellulose <1% Binder 100%
031	11A	2/9/2023	2/15/2023	Clay Tile Grout; Deli	NO	G	YES	N/A	Binder 100%
032	11B	2/9/2023	2/15/2023	Clay Tile Grout; Meat Cooler	NO	G	YES	N/A	Binder 100%
033	11C	2/9/2023	2/15/2023	Clay Tile Grout; Floral Cooler	NO	G	YES	N/A	Binder 100%
034	12A	2/9/2023	2/15/2023	Ceramic Wall Tile Grout; Bakery	NO	W	YES	N/A	Cellulose <1% Binder 100%
035	12B	2/9/2023	2/15/2023	Ceramic Wall Tile Grout; Deli	NO	W	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 2/20/2023
 Lab Number: 165855

Project Number: 20-18981-D
 Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
036	12C	2/9/2023	2/15/2023	Ceramic Wall Tile Grout; Meat Prep	NO	W	YES	N/A	Cellulose <1% Binder 100%
037	13A	2/9/2023	2/15/2023	Plastic Wall Adhesive; E. Foyer	NO	T	YES	N/A	Cellulose <1% Binder 100%
038	13B	2/9/2023	2/15/2023	Plastic Wall Adhesive; Store Floor - S. Wall	NO	T	YES	N/A	Cellulose <1% Binder 100%
039	13C	2/9/2023	2/15/2023	Plastic Wall Adhesive; W. Foyer	NO	T	YES	N/A	Cellulose <1% Binder 100%
040	14A	2/9/2023	2/15/2023	Cooler Wall Panel Gasket; Dairy Cooler	NO	G	YES	N/A	Binder 100%
041	14B	2/9/2023	2/15/2023	Cooler Wall Panel Gasket; Seafood Freezer	NO	G	YES	N/A	Binder 100%
042	14C	2/9/2023	2/15/2023	Cooler Wall Panel Gasket; Deli Cooler	NO	G	YES	N/A	Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 2/20/2023
 Lab Number: 165855

Project Number: 20-18981-D
 Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
043	15A	2/9/2023	2/15/2023	Perimeter Drywall; Exterior Soffit - W. Side	NO	W	YES	N/A	Cellulose 3% Binder 97%
044	15B	2/9/2023	2/15/2023	Perimeter Drywall; Exterior Soffit - E. Side	NO	W	YES	N/A	Cellulose 4% Binder 96%
045	15C	2/9/2023	2/15/2023	Perimeter Drywall; Store Floor - W. Side	NO	W	YES	N/A	Cellulose 3% Fiberglass <1% Binder 97%
046	16A	2/9/2023	2/15/2023	Interior Drywall; Warehouse - W. Stairwell	NO	W	YES	N/A	Cellulose 3% Fiberglass <1% Binder 97%
047	16B	2/9/2023	2/15/2023	Interior Drywall; Warehouse - E. Stairwell	NO	W	YES	N/A	Cellulose 3% Fiberglass 2% Binder 95%
048	16C	2/9/2023	2/15/2023	Interior Drywall; Break Room	NO	W	YES	N/A	Cellulose 4% Fiberglass 2% Binder 94%
049	17A	2/9/2023	2/15/2023	2' x 4' Fissure Pattern Ceiling Tile; E. Foyer	NO	T - W	YES	N/A	Cellulose 85% Fiberglass 10% Binder 5%

Client: Civil & Environmental Consultants
 Report Date: 2/20/2023
 Lab Number: 165855

Project Number: 20-18981-D
 Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
050	17B	2/9/2023	2/15/2023	2' x 4' Fissure Pattern Ceiling Tile; Store Floor - NW Corner Exit	NO	T - W	YES	N/A	Cellulose 85% Fiberglass 10% Binder 5%
051	17C	2/9/2023	2/15/2023	2' x 4' Fissure Pattern Ceiling Tile; Lunch Room	NO	T - W	YES	N/A	Cellulose 85% Fiberglass 8% Binder 7%
052	18A	2/9/2023	2/15/2023	2' x 4' Drywall Pattern Ceiling Tile; Seafood	NO	W	YES	N/A	Cellulose 3% Fiberglass 2% Binder 95%
053	18B	2/9/2023	2/15/2023	2' x 4' Drywall Pattern Ceiling Tile; Meat	NO	W	YES	N/A	Cellulose 4% Fiberglass 2% Binder 94%
054	18C	2/9/2023	2/15/2023	2' x 4' Drywall Pattern Ceiling Tile; Deli	NO	W	YES	N/A	Cellulose 3% Fiberglass 2% Binder 95%
055	19A	2/9/2023	2/15/2023	Vinyl Base Molding; W. Foyer	NO	BR	YES	N/A	Binder 100%
056	19B	2/9/2023	2/15/2023	Vinyl Base Molding; Store Floor - Bakery	NO	B	YES	N/A	Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 2/20/2023
 Lab Number: 165855

Project Number: 20-18981-D
 Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
057	19C	2/9/2023	2/15/2023	Vinyl Base Molding; Store Floor - NE Corner	NO	B	YES	N/A	Binder 100%
058	19D	2/9/2023	2/15/2023	Vinyl Base Molding Mastic; W. Foyer	NO	T	YES	N/A	Cellulose <1% Binder 100%
059	19E	2/9/2023	2/15/2023	Vinyl Base Molding Mastic; Store Floor - Bakery	NO	T	YES	N/A	Cellulose <1% Binder 100%
060	19F	2/9/2023	2/15/2023	Vinyl Base Molding Mastic; Store Floor - NE Corner	NO	T	YES	N/A	Cellulose <1% Binder 100%
061	20A	2/9/2023	2/15/2023	Woodgrain Linoleum Flooring; Store Floor - Bakery	NO	BR	YES	N/A	Binder 100%
062	20B	2/9/2023	2/15/2023	Woodgrain Linoleum Flooring; Store Floor - Produce	NO	BR	YES	N/A	Binder 100%
063	20C	2/9/2023	2/15/2023	Woodgrain Linoleum Flooring; Store Floor - Middle of Aisle 8	NO	BR	YES	N/A	Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 2/20/2023
 Lab Number: 165855

Project Number: 20-18981-D
 Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
064	20D	2/9/2023	2/15/2023	Woodgrain Linoleum Flooring Mastic; Store Floor - Bakery	NO	BR	YES	N/A	Cellulose <1% Binder 100%
065	20E	2/9/2023	2/15/2023	Woodgrain Linoleum Flooring Mastic; Store Floor - Produce	N/A	N/A	N/A	NOT ANALYZED	QUANTITY NON SUFFICIENT
066	20F	2/9/2023	2/15/2023	Woodgrain Linoleum Flooring Mastic; Store Floor - Middle of Aisle 8	NO	T	YES	N/A	Cellulose <1% Binder 100%
067	21A	2/9/2023	2/15/2023	12" x 12" Cream Swirl Pattern Floor Tile; Store Floor - Pickup	NO	T	YES	N/A	Binder 100%
068	21B	2/9/2023	2/15/2023	12" x 12" Cream Swirl Pattern Floor Tile; Store Floor - W. Warehouse Entry	NO	T	YES	N/A	Cellulose <1% Binder 100%
069	21C	2/9/2023	2/15/2023	12" x 12" Cream Swirl Pattern Floor Tile; Store Floor - N. End of Aisle 13	NO	T	YES	N/A	Cellulose <1% Binder 100%
070	21D	2/9/2023	2/15/2023	12" x 12" Cream Swirl Pattern Floor Tile; Store Floor - Middle of Aisle 9	NO	T	YES	N/A	Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 2/20/2023
 Lab Number: 165855

Project Number: 20-18981-D
 Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
071	21E	2/9/2023	2/15/2023	12" x 12" Cream Swirl Pattern Floor Tile; Store Floor - Middle of Aisle 4	NO	T	YES	N/A	Binder 100%
072	21F	2/9/2023	2/15/2023	12" x 12" Cream Swirl Pattern Floor Tile; Store Floor - NE Corner	NO	T	YES	N/A	Cellulose <1% Binder 100%
073	21G	2/9/2023	2/15/2023	12" x 12" Cream Swirl Pattern Floor Tile; Bakery Prep	NO	T	YES	N/A	Binder 100%
074	21H	2/9/2023	2/15/2023	12" x 12" Cream Swirl Pattern Floor Tile Mastic; Store Floor - Pickup	NO	B	YES	N/A	Cellulose <1% Binder 100%
075	21I	2/9/2023	2/15/2023	12" x 12" Cream Swirl Pattern Floor Tile Mastic; Store Floor - W. Warehouse Entry	NO	B	YES	N/A	Cellulose <1% Binder 100%
076	21J	2/9/2023	2/15/2023	12" x 12" Cream Swirl Pattern Floor Tile Mastic; Store Floor - N. End of Aisle 13	NO	B	YES	N/A	Cellulose <1% Binder 100%
077	21K	2/9/2023	2/15/2023	12" x 12" Cream Swirl Pattern Floor Tile Mastic; Store Floor - Middle of Aisle 9	NO	B	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 2/20/2023
 Lab Number: 165855

Project Number: 20-18981-D
 Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
078	21L	2/9/2023	2/15/2023	12" x 12" Cream Swirl Pattern Floor Tile Mastic; Store Floor - Middle of Aisle 4	NO	B	YES	N/A	Cellulose <1% Binder 100%
079	21M	2/9/2023	2/15/2023	12" x 12" Cream Swirl Pattern Floor Tile Mastic; Store Floor - NE Corner	NO	B	YES	N/A	Cellulose <1% Binder 100%
080	21N	2/9/2023	2/15/2023	12" x 12" Cream Swirl Pattern Floor Tile Mastic; Bakery Prep	NO	B	YES	N/A	Cellulose <1% Binder 100%
081	22A	2/9/2023	2/15/2023	12" x 12" Green Swirl Pattern Floor Tile; Store Floor - Bank	NO	GR	YES	N/A	Cellulose <1% Binder 100%
082	22B	2/9/2023	2/15/2023	12" x 12" Green Swirl Pattern Floor Tile; Check Out Lanes - E. Side	NO	GR	YES	N/A	Cellulose <1% Binder 100%
083	22C	2/9/2023	2/15/2023	12" x 12" Green Swirl Pattern Floor Tile; Check Out Lanes - W. Side	NO	GR	YES	N/A	Cellulose <1% Binder 100%
084	22D	2/9/2023	2/15/2023	12" x 12" Green Swirl Pattern Floor Tile Mastic; Store Floor - Bank	NO	BR	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 2/20/2023
 Lab Number: 165855

Project Number: 20-18981-D
 Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
085	22E	2/9/2023	2/15/2023	12" x 12" Green Swirl Pattern Floor Tile Mastic; Check Out Lanes - E. Side	NO	B - BR	YES	N/A	Cellulose 2% Binder 98%
086	22F	2/9/2023	2/15/2023	12" x 12" Green Swirl Pattern Floor Tile Mastic; Check Out Lanes - W. Side	NO	B	YES	N/A	Cellulose <1% Binder 100%
087	23A	2/9/2023	2/15/2023	12" x 12" Tan Swirl Pattern Floor Tile; Acct. Office	NO	T	YES	N/A	Cellulose <1% Binder 100%
088	23B	2/9/2023	2/15/2023	12" x 12" Tan Swirl Pattern Floor Tile; Store Floor - E. Edge	NO	T	YES	N/A	Cellulose <1% Binder 100%
089	23C	2/9/2023	2/15/2023	12" x 12" Tan Swirl Pattern Floor Tile; Store Floor - NW Corner	NO	T	YES	N/A	Cellulose <1% Binder 100%
090	23D	2/9/2023	2/15/2023	12" x 12" Tan Swirl Pattern Floor Tile Mastic; Acct. Office	NO	B	YES	N/A	Cellulose <1% Binder 100%
091	23E	2/9/2023	2/15/2023	12" x 12" Tan Swirl Pattern Floor Tile Mastic; Store Floor - E. Edge	NO	B	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 2/20/2023
 Lab Number: 165855

Project Number: 20-18981-D
 Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
092	23F	2/9/2023	2/15/2023	12" x 12" Tan Swirl Pattern Floor Tile Mastic; Store Floor - NW Corner	NO	B	YES	N/A	Cellulose <1% Binder 100%
093	24A	2/9/2023	2/15/2023	12" x 12" Grey Swirl Pattern Floor Tile; Store Floor - Deli	NO	G	YES	N/A	Cellulose <1% Binder 100%
094	24B	2/9/2023	2/15/2023	12" x 12" Grey Swirl Pattern Floor Tile; Store Floor - NW Corner, Dairy	NO	G	YES	N/A	Cellulose <1% Binder 100%
095	24C	2/9/2023	2/15/2023	12" x 12" Grey Swirl Pattern Floor Tile; Warehouse - E. End, Janitor Closet	NO	GR	YES	N/A	Cellulose <1% Binder 100%
096	24D	2/9/2023	2/15/2023	12" x 12" Grey Swirl Pattern Floor Tile Mastic; Store Floor - Deli	NO	B	YES	N/A	Cellulose <1% Binder 100%
097	24E	2/9/2023	2/15/2023	12" x 12" Grey Swirl Pattern Floor Tile Mastic; Store Floor - NW Corner, Dairy	NO	T	YES	N/A	Cellulose <1% Binder 100%
098	24F	2/9/2023	2/15/2023	12" x 12" Grey Swirl Pattern Floor Tile Mastic; Warehouse - E. End, Janitor Closet	NO	B	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 2/20/2023
 Lab Number: 165855

Project Number: 20-18981-D
 Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
099	25A	2/9/2023	2/20/2023	12" x 12" Red Swirl Pattern Floor Tile; Store Floor - Meat and Seafood	NO	R	YES	N/A	Cellulose <1% Binder 100%
100	25B	2/9/2023	2/20/2023	12" x 12" Red Swirl Pattern Floor Tile; Store Floor - Meat and Seafood	NO	R	YES	N/A	Cellulose <1% Binder 100%
101	25C	2/9/2023	2/20/2023	12" x 12" Red Swirl Pattern Floor Tile; Store Floor - Meat and Seafood	NO	R	YES	N/A	Cellulose <1% Binder 100%
102	25D	2/9/2023	2/20/2023	12" x 12" Red Swirl Pattern Floor Tile Mastic; Store Floor - Meat and Seafood	NO	B	YES	N/A	Cellulose 5% Binder 95%
103	25E	2/9/2023	2/20/2023	12" x 12" Red Swirl Pattern Floor Tile Mastic; Store Floor - Meat and Seafood	NO	B	YES	N/A	Cellulose 6% Binder 94%
104	25F	2/9/2023	2/20/2023	12" x 12" Red Swirl Pattern Floor Tile Mastic; Store Floor - Meat and Seafood	NO	B	YES	N/A	Cellulose 6% Binder 94%
105	26A	2/9/2023	2/20/2023	12" x 12" Brown Swirl Pattern Floor Tile; Store Floor - Aisle 14	NO	BR	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
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Project Number: 20-18981-D
 Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
106	26B	2/9/2023	2/20/2023	12" x 12" Brown Swirl Pattern Floor Tile; Store Floor - Aisle 13	NO	BR	YES	N/A	Cellulose <1% Binder 100%
107	26C	2/9/2023	2/20/2023	12" x 12" Brown Swirl Pattern Floor Tile; Store Floor - Aisle 15	NO	BR	YES	N/A	Cellulose <1% Binder 100%
108	26D	2/9/2023	2/20/2023	12" x 12" Brown Swirl Pattern Floor Tile Mastic; Store Floor - Aisle 14	NO	B	YES	N/A	Cellulose <1% Binder 100%
109	26E	2/9/2023	2/20/2023	12" x 12" Brown Swirl Pattern Floor Tile Mastic; Store Floor - Aisle 13	NO	B	YES	N/A	Cellulose <1% Binder 100%
110	26F	2/9/2023	2/20/2023	12" x 12" Brown Swirl Pattern Floor Tile Mastic; Store Floor - Aisle 15	NO	B	YES	N/A	Cellulose <1% Binder 100%
111	27A	2/9/2023	2/20/2023	12" x 12" White with Black Specks Floor Tile; Bakery Prep	NO	W - B	YES	N/A	Cellulose <1% Binder 100%
112	27B	2/9/2023	2/20/2023	12" x 12" White with Black Specks Floor Tile; Meat Prep	NO	W - B	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 2/20/2023
 Lab Number: 165855

Project Number: 20-18981-D
 Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
113	27C	2/9/2023	2/20/2023	12" x 12" White with Black Specks Floor Tile; Seafood Prep	NO	W - B	YES	N/A	Cellulose <1% Binder 100%
114	27D	2/9/2023	2/20/2023	12" x 12" White with Black Specks Floor Tile Mastic; Bakery Prep	NO	B	YES	N/A	Cellulose <1% Binder 100%
115	27E	2/9/2023	2/20/2023	12" x 12" White with Black Specks Floor Tile Mastic; Meat Prep	NO	B	YES	N/A	Cellulose <1% Binder 100%
116	27F	2/9/2023	2/20/2023	12" x 12" White with Black Specks Floor Tile Mastic; Seafood Prep	NO	B	YES	N/A	Cellulose <1% Binder 100%
117	28A	2/9/2023	2/20/2023	12" x 12" White with Black Dots Floor Tile; Meat Prep	NO	W - B	YES	N/A	Cellulose <1% Binder 100%
118	28B	2/9/2023	2/20/2023	12" x 12" White with Black Dots Floor Tile; Meat Prep	NO	W - B	YES	N/A	Cellulose <1% Binder 100%
119	28C	2/9/2023	2/20/2023	12" x 12" White with Black Dots Floor Tile; Seafood Prep	NO	W - B	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
Report Date: 2/20/2023
Lab Number: 165855

Project Number: 20-18981-D
Project Name: Kroger Store D-365

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 3615 Washtenaw - Ann Arbor, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
120	28D	2/9/2023	2/20/2023	12" x 12" White with Black Dots Floor Tile Mastic; Meat Prep	NO	T	YES	N/A	Cellulose 4% Binder 96%
121	28E	2/9/2023	2/20/2023	12" x 12" White with Black Dots Floor Tile Mastic; Meat Prep	NO	T	YES	N/A	Cellulose 3% Binder 97%
122	28F	2/9/2023	2/20/2023	12" x 12" White with Black Dots Floor Tile Mastic; Seafood Prep	N/A	N/A	N/A	NOT ANALYZED	QUANTITY NON SUFFICIENT

Color: B-Black, BL-Blue, BR-Brown, CL-Clear, GL-Gold, G-Gray, GR-Green, O-Orange, P-Pink, PR-Purple, R-Red, S-Silver, T-Tan, W-White, Y-Yellow

Betsie L. McAfee has reviewed this final report and has taken overall technical responsibility for the data.

micro air inc.

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165855

DAILY BULK SAMPLE LOG

TECHNICIAN Donald G French DATE 2/9/23 JOB # 20-18981-D

LOCATION Kroger Store D-365 PAGE 1 OF 6

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL CONDITION	PHOTO NUMBER	SAMPLE DESCRIPTION
-001 1A	Exterior - South side - E end			Brick Mortar
-002 B	" " " - middle			↓
-003 C	" " " - W end			
-004 2A	Exterior South side - E end			Brick Expansion Joint
-005 B	" " " - middle			↓
-006 C	" " " - W end			
-007 3A	Warehouse Loading Dock			Concrete Block Mortar
-008 B	" - E Skirwell			↓
-009 C	Exterior - W side			
-010 4A	Warehouse Loading Dock			Concrete Block Expansion Joint
-011 B	" - E Skirwell			↓
-012 C	Exterior - W side			
-013 5A	NW Foyer Door			Window/Door Frame Caulk
-014 B	NW Foyer NW Foyer Window			↓
-015 C	SW Foyer Door			
-016 6A	E Foyer Window			Window Glazing
-017 B	" " "			↓
-018 C	" " "			

White - Office

Yellow - Laboratory

CHAIN OF CUSTODY CHRONICLE:

COLLECTED BY:

CUSTODY TRANSFERRED TO:

RECEIVED IN LABORATORY BY:

NAME

DATE

NAME

DATE

NAME

DATE

**micro air inc.**6320 LA PAS TRAIL, INDIANAPOLIS, INDIANA 46268
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165855

DAILY BULK SAMPLE LOGTECHNICIAN Donald G French DATE 2/9/23 JOB # 20-18981-DLOCATION Kroger Store D-365 PAGE 2 OF 6

	SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL CONDITION	PHOTO NUMBER	SAMPLE DESCRIPTION
-019	7A	Exterior S side - E end			Foundation
-020	B	↓ - middle			Caulk
-021	C	↓ - W end			↓
-022	8A	Exterior S side - E end			EFS
-023	B	↓ - middle			
-024	C	↓ - W end			↓
-025	9A	Warehouse Area - West End			Bare Concrete
-026	B	" " - Middle			Floor
-027	C	" " @ Delivery			↓
-028	10A	W Foyer			Ceramic Tile Floor
-029	B	W Foyer			Tile Grout
-030	C	E Foyer			↓
-031	11A	Deli			Clay Tile
-032	B	Meat Cooler			Grout
-033	C	Floral Cooler			↓
-034	12A	Bakery			Ceramic Wall Tile
-035	B	Deli			Grout
-036	C	Meat Prep			↓

White - Office

Yellow - Laboratory

CHAIN OF CUSTODY CHRONICLE:

COLLECTED BY:

CUSTODY TRANSFERRED TO:

RECEIVED IN LABORATORY BY:

NAME

DATE

NAME

DATE

NAME

DATE

micro air inc.6320 LA PAS TRAIL, INDIANAPOLIS, INDIANA 46268
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165855

DAILY BULK SAMPLE LOG

TECHNICIAN Donald G French DATE 2/9/23 JOB # 20-18981-DLOCATION Kroger Store D-365 PAGE 3 OF 4

	SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL CONDITION	PHOTO NUMBER	SAMPLE DESCRIPTION
-037	13A	E Foyer			Plastic Wall
-038	B	Store Floor - S Wall			Adhesive
-039	C	W Foyer			↓
-040	14A	Dairy Cooler			Cooler Wall Panel
-041	B	Sea Food Freezer			Gasket
-042	C	Deli Cooler			↓
-043	15A	Exterior Soffit - W side			Perimeter
-044	B	" " - E side			Drywall
-045	C	Store Floor - W side			↓
-046	16A	Warehouse - W Stairwell			Interior
-047	B	" " - E Stairwell			Drywall
-048	C	Break Room			↓
-049	17A	E Foyer			2'x4' Ceiling Tile
-050	B	Store Floor - NW Corner Exit			(Fissure Pattern)
-051	C	Lunch Room			↓
-052	18A	Seafood			2'x4' Ceiling Tile
-053	B	Meat			(Drywall Pattern)
-054	C	Deli			↓

White - Office

Yellow - Laboratory

CHAIN OF CUSTODY CHRONICLE:

COLLECTED BY:

CUSTODY TRANSFERRED TO:

RECEIVED IN LABORATORY BY:

NAME

DATE

NAME

DATE

NAME

DATE

micro air inc.

8320 LA PAS TRAIL, INDIANAPOLIS, INDIANA 46268
TELEPHONE: (317) 283-1533 FAX: (317) 290-3566

E-MAIL: microair@microair.com
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DAILY BULK SAMPLE LOG

TECHNICIAN Donald G French DATE 2/9/23 JOB # 20-18981-D

LOCATION Kroger Store D-365 PAGE 4 OF 6

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL CONDITION	PHOTO NUMBER	SAMPLE DESCRIPTION
-055 19 A	W Foyer			Vinyl Base Molding
-056 B	Store Floor By Bakery			
-057 C	" " @ NE Corner			↓
-058 19 D				Mastic on Above
-059 E				↓
-060 F				↓
-061 20 A	Store Floor @ Bakery			Woodgrain
-062 B	" " @ Produce			hingeless Flooring
-063 C	" " @ middle of Aisle B			↓
-064 20 D				Mastic on Above
-065 E				↓
-066 F				↓
-067 21 A	Store Floor by Pick Up			12"x12" Floor Tile
-068 B	" " @ W Warehouse entry			(cream Swirl Pattern)
-069 C	" " @ End of Aisle 13			↓
-070 D	" " @ middle of Aisle 9			↓
-071 E	" " @ middle of Aisle 4			↓
-072 F	" " @ NE Corner			↓
-073 G	Bakery Prep			↓
-074 21 H				Mastic on Above
-075 I				↓
-076 J				↓
-077 K				↓
-078 L				↓

White - Office

Yellow - Laboratory

CHAIN OF CUSTODY CHRONICLE:

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6320 LA PAS TRAIL, INDIANAPOLIS, INDIANA 46268
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DAILY BULK SAMPLE LOG

TECHNICIAN Donald G French DATE 2/9/23 JOB # 20-18981-D

LOCATION Kroger Store D-365 PAGE 5 OF 6

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL CONDITION	PHOTO NUMBER	SAMPLE DESCRIPTION
-079 21 M	↓			Mastic on Above
-080 N	↓			
-081 22 A	Store Floor by Bank			12"x12" Floor Tile
-082 B	Check Out Lanes E side			(Green Swirl Pattern)
-083 C	" " " W side			↓
-084 D	↓			Mastic on Above
-085 E	↓			↓
-086 F	↓			↓
-087 23 A	Aisle Office			12"x12" Floor Tile
-088 B	Store Floor - E Edge			(Tan Swirl Pattern)
-089 C	" " - NW Corner			↓
-090 D	↓			Mastic on Above
-091 E	↓			↓
-092 F	↓			↓
-093 24 A	Store Floor by Deli			12"x12" Floor Tile
-094 B	" " - NW Corner by Dairy			(Grey Swirl Pattern)
-095 C	Warehouse - E end Jan Closet			↓
-096 D	↓			Mastic on Above
-097 E	↓			↓
-098 F	↓			↓

White - Office

Yellow - Laboratory

CHAIN OF CUSTODY CHRONICLE:

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DAILY BULK SAMPLE LOGTECHNICIAN Donald G. French DATE 2/9/23 JOB # 20-18981-DLOCATION Kroger Store D-365 PAGE 6 OF 6

	SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL CONDITION	PHOTO NUMBER	SAMPLE DESCRIPTION
-099	25A	Store Floor @ Meat - Sea Food			12"x12" Floor Tile
-100	B				(Red Swirl Pattern)
-101	C				↓
-102	D				Mastic on Above
-103	E				↓
-104	F				↓
-105	26A	Store Floor - Aisle 14			12"x12" Floor Tile
-106	B	" " - Aisle 13			(Brown Swirl Pattern)
-107	C	" " - Aisle 15			↓
-108	D				Mastic on Above
-109	E				↓
-110	F				↓
-111	27A	Bakery Prep			12"x12" Floor Tile
-112	B	Meat Prep			White w. Black Specks
-113	C	Seafood Prep			↓
-114	D				Mastic on Above
-115	E				↓
-116	F				↓
-117	28A	Meat Prep			12"x12" Floor Tile
-118	B	" "			White w. Black Dots
-119	C	Seafood Prep			↓
-120	D				Mastic on Above
-121	E				↓
-122	F				↓

White - Office

Yellow - Laboratory

CHAIN OF CUSTODY CHRONICLE:

COLLECTED BY:

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RECEIVED IN LABORATORY BY:

Donald G. French 2/9/23
NAME DATE

NAME

DATE

NAME

DATE

TAB 5
CERTIFICATIONS

Donald G. French
6320 LaPas Trail
Indianapolis, IN 46268

Donald G. French

Inspector

A11834

03/07/2023

157478



**United States Department of Commerce
National Institute of Standards and Technology**



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101221-0

Micro Air, Inc.
Indianapolis, IN

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2022-04-01 through 2023-03-31

Effective Dates



[Signature]
For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101221-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials



For the National Voluntary Laboratory Accreditation Program