Asbestos-Containing Materials Inspection 528 Virginia Avenue Ann Arbor, Michigan 48103

Ann Arbor Housing Development Corporation

April 4, 2023

ASTI ENVIRONMENTAL





Asbestos-Containing Materials Inspection 528 Virginia Avenue Ann Arbor, Michigan 48103

April 4, 2023

Report Prepared For:

Ann Arbor Housing Development Corporation c/o Jennifer Hall 2000 S. Industrial Highway Ann Arbor, Michigan 48104

Report Prepared By:

ASTI Environmental 10448 Citation Drive, Suite 100 Brighton, Michigan 48116 1-800-395-ASTI

ASTI Project No. 12703`

Report Prepared by:

nole

Jelaine D. Tinsley Asbestos Inspector (A16395)

Report Reviewed by:

David A. Amir, EP Director-Site Redevelopment Services



TABLE OF CONTENTS

<u>Secti</u>	<u>on</u>		Page
Execu	utive S	Summary	ii
1.0	Intro	duction	1
2.0 3.0	Limit	ation and Exceptions	
4.0	Asbe	estos-Containing Materials Inspection	4
	4.1 4.2 4.3 4.4	Previous Asbestos-Containing Materials Inspections Asbestos Inspection Methodology Sample Collection Laboratory Analytical Results	
5.0	4.5 Cond	Presumed Asbestos-Containing Materials	

Figures

Site Location Map

<u>Tables</u>

Asbestos Sample Results 1

Appendices

- А
- Resumes and Accreditations of Inspectors Results of Asbestos Sample Analysis and Chain of Custody В

i

С Photo Log



Executive Summary

ASTI Environmental (ASTI) was retained by Ann Arbor Housing Development Corporation to conduct an asbestos-containing materials (ACMs) inspection of the buildings located at 528 Virginia Avenue, Ann Arbor, Washtenaw County, Michigan (Subject Property). ASTI's scope of work included sampling of suspect ACMs in general conformance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 Subpart M. The building's attached garage was locked and was not inspected. The services provided by ASTI in completing this assessment have been provided in a manner consistent with the normal standards of the profession. No other warranties, expressed or implied, are made.

The structure inspected consists of an approximately 2,800 square feet, 2-story building with a gabled roof and attached garage. Based on the inspection conducted by ASTI on March 7, 2023, the following ACMs were identified on the Subject Property:

Asbestos-Containing Materials Quantities

MATERIAL	LOCATION	ESTIMATED QUANTITY
9" x 9" vinyl floor tile / Beige	Beneath carpet in bedroom 3 and likely throughout 528 - unit 1	1,200 ft ²

Presumed Asbestos-Containing Materials

During completion of the inspection, roofing materials were identified as potential ACMs, however, due to inaccessibility, and /or the destructive nature of sampling required; these materials were not sampled at this time and should be considered as presumed asbestos-containing materials (PACMs) until it can be sampled. The following PACMs were identified during the site inspection.

Presumed Asbestos-Containing Materials Summary

MATERIAL	LOCATION	ESTIMATED QUANTITY
Roofing Materials	Throughout the building	2,100 ft ²



1.0 INTRODUCTION

ASTI Environmental (ASTI) was retained by Ann Arbor Housing Development Corporation to conduct an asbestos-containing materials (ACM) inspection at 528 Virginia Avenue, Ann Arbor, Washtenaw County, Michigan (Subject Property). Refer to the attached Site Location Map for the approximate location of the Subject Property. The information and opinions rendered in this report are prepared for the benefit of Ann Arbor Housing Development Corporation; ASTI acknowledges that said parties may rely upon the contents and conclusions presented in this report. The services provided by ASTI in completing this assessment have been provided in a manner consistent with the normal standards of the profession. No other warranties, expressed or implied are made.



1

2.0 LIMITATION AND EXCEPTIONS

ASTI's scope of work included sampling of suspect homogeneous ACMs in general conformance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 Subpart M and ASTM E2356-10 Standard Practice for Comprehensive Building Asbestos Surveys. Suspect materials not identified within this report may be encountered in inaccessible wall cavities, chases, floor cavities, etc. during demolition activities. These materials must be presumed to be ACM until they can be sampled and analyzed for asbestos content.

- The building's attached garage was locked and was not inspected.
- Hollow concrete block was used in the construction of the building. The possibility
 exists for suspect ACM insulation to be present inside the concrete block. If during
 demolition/renovation material is found within the concrete block it should be
 assumed to be ACM until it can be sampled and analyzed for asbestos content.
- Carpeted areas were identified throughout the building in the living rooms, dining rooms, and bedrooms. ASTI pulled back carpet in the corners of several locations and observed that the carpeting overlaid hardwood in unit 2, Beige floor tile was found in unit 1. Should additional flooring materials be encountered during carpet removal, the flooring and any associated mastics should be presumed to contain asbestos until tested and proven otherwise.
- Due to the age of the building and the use of a boiler, straight pipe insulation and elbows/fittings may be located in hidden cavities not accessible during the inspection. If any future work, such as renovation or demolition, which would uncover and disturb these materials, the straight pipe insulation and elbows/fittings are considered regulated ACMs and must be removed by a licensed abatement contractor.



3.0 SUBJECT PROPERTY DESCRIPTION

The Subject Property is currently developed with an apartment building containing two (2) units in one (1) building. The building was constructed in 1963. The building is approximately 2,800 square feet and contains two (2) apartment units on two (2) levels. The building is of masonry construction with gable roof. Exterior materials include asphalt shingles, siding, and brick. Interior finish materials include plaster, resilient floor tiles, linoleum, ceramic tile, carpeting, brick, concrete, paint, and glass.



4.0 ASBESTOS-CONTAINING MATERIALS INSPECTION

Ms. Jelaine D. Tinsley (A16395), and Mr. John Schuitema (A51781) of ASTI's Site Redevelopment Services Group conducted the ACMs inspection of the Subject Property located at 528 Virginia Avenue, Ann Arbor, Michigan on March 7, 2023. Copies of the inspectors' resumes and asbestos accreditations are provided in Appendix A.

4.1 Previous Asbestos-Containing Materials Inspections

ASTI is not aware of any previous ACM inspections of the Subject Property.

4.2 Asbestos Inspection Methodology

ASTI's scope of work included sampling of suspect ACMs in accordance with the AHERA and NESHAP protocols. The inspection included a visual inspection of the building in order to identify homogeneous areas of suspect surfacing materials, thermal system insulation, and miscellaneous materials, as well as the sampling of suspect friable and non-friable materials. The following definitions from 40 CFR Part 763 are provided below.

<u>Asbestos-Containing Material (ACM):</u> any material or product which contains more than one percent asbestos.

<u>Surfacing Materials (SM)</u>: material that is troweled-on, sprayed-on or otherwise applied to surfaces for acoustical, fireproofing or other purposes.

<u>Thermal System Insulation (TSI)</u>: material applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior components to prevent heat loss or gain, or water condensation or for other purposes.

<u>Miscellaneous Materials (MM):</u> interior building material on structural components, structural members or fixtures such as floors and ceilings and does not include surfacing material or thermal system insulation.

<u>Friable:</u> material that when dry, may be crumbled pulverized or reduced to powder by hand pressure, and includes previously non-friable material after such previously non-friable material becomes damaged to the extent that when dry it may be crumbled, pulverized or reduced to powder by hand pressure.

Non-friable: material which when dry may not be crumbled, pulverized or reduced to

4

<u>Homogeneous areas (HAs)</u>: an area of surfacing material, thermal system insulation, or miscellaneous material that is uniform in color and texture.

4.3 <u>Sample Collection</u>

Samples were collected by physically removing a small piece of suspect material and placing it in a marked plastic bag. Samples were collected using wet methods, as appropriate. The sample collection tool was cleaned prior to each use to avoid cross-contamination of samples. ASTI sampled a variety of materials for asbestos testing. The material types sampled are listed below.

- Linoleum and associated mastic (various types)
- Plaster
- Plank flooring
- Tile grout (various types)
- Caulk (various types)
- Sink undercoating
- 9" x 9" Floor tile and associated mastic
- Brick Mortar

ASTI collected 27 bulk samples from the suspect ACMs. A total of 33 sample layers were analyzed. One sample layer was point counted. The bulk samples were transmitted under chain-of-custody protocol to Apex Laboratory in Whitmore Lake, Michigan or asbestos analysis using polarized light microscopy with dispersion staining (PLM/DS) in accordance with the US Environmental Protection Agency's (US EPA's) "Interim Method for the Determination of Asbestos in Bulk Building Materials" (EPA 600/R-93/116, June 1993). Sample results are presented in the attached Table 1.



4.4 Laboratory Analytical Results

Building materials identified to contain greater than 1% asbestos are defined as ACMs. Review of the asbestos test results revealed that the following ACMs were identified on the Subject Property:

НА	Material/Description	Location	Asbestos Result
10	9" x 9" vinyl floor tile / Beige	Beneath carpet in bedroom 3 and likely throughout 528 - unit 1	1.75% Chrysotile (PC)
PC = Point	Counting		

A comprehensive list of sampled materials with analytical results is provided as Table 1. A copy of the laboratory data sheets, along with the chain-of-custodies are included in Appendix B.

Assestos-containing materials adantities			
MATERIAL	LOCATION	ESTIMATED QUANTITY	
9" x 9" vinyl floor tile / Beige	Beneath carpet in bedroom 3 and likely throughout 528 - unit 1	1,200 ft ²	

Asbestos-Containing Materials Quantities



4.5 <u>Presumed Asbestos-Containing Materials</u>

During completion of the inspection, roofing materials were identified as potential ACMs, however, due to inaccessibility, and /or the destructive nature of sampling required; these materials were not sampled at this time and should be considered as presumed asbestos-containing materials (PACMs) until it can be sampled. The following PACMs were identified during the site inspection.

MATERIAL	LOCATION	ESTIMATED QUANTITY
Roofing Materials	Throughout the building	2,100 ft ²

Presumed Asbestos-Containing Materials Summar	y
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5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the inspection completed at the Subject Property by ASTI on March 7, 2023, ACMs were identified in the buildings. A summary of the ACMs identified, along with ASTI's recommendations are as follows:

MATERIAL	LOCATION	ESTIMATED QUANTITY
9" x 9" vinyl floor tile / Beige	Beneath carpet in bedroom 3 and likely throughout 528 - unit 1	1,200 ft ²

According to classification guidelines set forth in NESHAP, the 9" x 9" vinyl floor tile is classified as a Category I non-friable ACM. This material in it's current condition represents minimal risk of fiber release. If renovation or demolition would disturb this material, ASTI recommends the ACM be removed by a licensed abatement contractor prior to disturbance.

Presumed Asbestos-Containing Materials

During completion of the inspection, roofing materials were identified as potential ACMs, however, due to inaccessibility, and /or the destructive nature of sampling required; these materials were not sampled at this time and should be considered as presumed asbestos-containing materials (PACMs) until it can be sampled. The following PACMs were identified during the site inspection.

Presumed	Asbestos-Containing	Materials S	ummary

MATERIAL	LOCATION	ESTIMATED QUANTITY
Roofing Materials	Throughout the building	2,100 ft ²

According to classification guidelines set forth in NESHAP, the roofing materials are assumed to contain asbestos and are classified as Category II non-friable ACMs. Until testing of these materials is completed, they should be treated as Category II non-friable ACMs.



Figures

Site Location Map





Created for: Ann Arbor Housing Development Corporation Created by: RMH, April 13, 2023, ASTI Project 12703

Tables

1 Asbestos Sample Results



Table 1 Asbestos Sample Results 528 Virginia Avenue Ann Arbor, MI ASTI Project No: 12703

ASTI Sample ID	Material/Description	Sample Location	Asbestos Result
1A	Linoleum / Brown w/Brown Lines	528-2 Laundry Room	NAD
1B	Linoleum / Brown w/Brown Lines	528-2 Laundry Room	NAD
24	Plaster Finish Coat / White	528-2 Loundry Boom	NAD
28	Plaster Base Coat / Grey	526-2 Eauliary Room	NAD
28	Plaster Finish Coat / White	528-2 Bod 1	NAD
20	Plaster Base Coat / Grey	520-2 Bed 1	NAD
20	Plaster Finish Coat / White	528-2 Bod 2	NAD
20	Plaster Base Coat / Grey	526-2 Bed 2	NAD
20	Plaster Finish Coat / White	528.1 Loundry	NAD
20	Plaster Base Coat / Grey	526-1 Lauriury	NAD
25	Plaster Finish Coat / White	528 2 Holl	NAD
20	Plaster Base Coat / Grey	526-2 Hall	NAD
24	Vinyl Plank Floor Tile / Tan/Brown Faux Wood	528 2 Holl	NAD
SA	Mastic & Backing	526-2 Hall	NAD
3B	Vinyl Plank Floor Tile / Tan/Brown Faux Wood	528-2 Kitchen	NAD
4A	Tile Grout / Grey	528-2 1/2 Bath	NAD
4B	Tile Grout / Grey	528-2 1/2 Bath	NAD
5A	Tile Grout / White	528-2 Full Bath Walls	NAD
5B	Tile Grout / White	528-2 Full Bath	NAD
6A	Caulk / White	528-2 Bathroom	NAD
6B	Caulk / White	528-2 Bathroom	NAD
7A	Linoleum / Beige/Brown & Rust Spots	528-1 Kitchen	NAD
7B	Linoleum / Beige/Brown & Rust Spots	528-1 Kitchen	NAD
8A	Sink Undercoat / Black	528-1 Kitchen	NAD
8B	Sink Undercoat / Black	528-1 Kitchen	NAD
9A	Linoleum / Beigew/White Lines & Mastic	528-1 Laundry Room	NAD
9B	Linoleum / Beigew/White Lines & Mastic	528-1 Laundry Room	NAD
104	9"x9" Floor Tile / Beige	528-1 Rodroom 3	1.75% Chrysotile (PC)
TUA	Mastic	520-1 Bedroom 5	NAD
10B	9"x9" Floor Tile / Beige	528-1 Rodroom 3	NA
	Mastic	520-1 Bedroom 5	NAD
11A	Brick Mortar / Grey	Exterior wall south side	NAD
11B	Brick Mortar / Grey	Exterior wall east side	NAD
12A	Exterior Caulk / White	Exterior window south side	NAD
12B	Exterior Caulk / White	Exterior window north side	NAD

Appendix A

Resumes and Accreditations of the Inspectors







JELAINE D. TINSLEY Environmental Professional

PROFILE

Certifications/Licenses NIOSH 582-Equivalent Course Sampling and Analysis of Airborne Asbestos Fibers OSHA 29 CFR 1910.120 HAZWOPER 40-Hour and 8-Hour Refresher Asbestos Inspector-Michigan (License No. A16395) Asbestos Inspector-Illinois (License No. 100-19756) Asbestos Inspector-Indiana (License No. 19A007625) Asbestos Hazard Evaluation Specialist-Ohio (License No.ES36108) Asbestos Inspector / Management Planner-Kentucky (License No. 66369) Asbestos Inspector-West Virginia (License No. AlO10697) Asbestos Project Designer-Michigan (License No. A16395) Certified Confined Space Entrant and Attendant American Red Cross First Aide and Adult CPR Certified ASTM Certification in RBCA Applied at Petroleum Release Sites Michigan Provisional Teaching Certificate

Education

Western Michigan University, B.S., Earth Science and Education

Experience History Environmental Professional, ASTI ENVIRONMENTAL Project Manager, Yeoman Group Project Manager, A&F Environmental Environmental Consultant, DLZ Corporation Environmental Consultant, AKT Peerless Geologist, ATC Associates Geologist, NUS Corporation Teacher, Detroit Public Schools Staff Scientist, CTI and Associates, Inc.

<u>Professional Memberships and Service</u> Michigan Association of Environmental Professionals (MAEP) Commercial Real Estate Women Detroit (CREW)

Professional Background

Ms. Tinsley has more than 33years' experience in the environmental industry in a variety of areas including Phase I environmental site assessments (ESAs), Phase II ESAs, baseline environmental assessments (BEAs), subsurface investigations (soil and groundwater testing), soil and groundwater evaluations, asbestos and mold inspections, abatement oversight, and specification development. Ms. Tinsley has also coordinated numerous hazardous material and pre-demolition surveys which included evaluations of asbestos, mold, radon and universal wastes for municipal, commercial, and industrial facilities.

Years' Experience:

8—ASTI ENVIRONMENTAL 25—other firms

ENVIRONMENTAL DUE DILIGENCE AND SITE INVESTIGATION PROJECTS

Environmental Site Assessments

Completed numerous site assessments for a variety of projects (vacant land, agricultural, residential, commercial, and industrial) to determine the environmental condition of sites for real estate transactions. Projects involved both surface and subsurface evaluations of sites for a variety of hazardous substances. Responsibilities included the preparation and/or review of ASTM Phase I and Phase Ш ESAs, Baseline Environmental Assessments (BEAs), and Due Care Plans. Ms. Tinsley has experience working in Michigan, Illinois, Indiana, Ohio, Kentucky, Tennessee, Georgia, Alabama, Mississippi, and Florida. Ms. Tinsley also has performed listing site evaluations for a dedicated contactor to the US EPA. Ms. Tinsley is also knowledgeable with All Appropriate Inquiries (AAI) per 40 CFR Part 312 and meets the requirements of an Environmental Professional per AAI.

Customer Training

Provided training for financial institutions on the types of properties that should have environmental evaluations.

Vapor Intrusion Evaluation, Jackson, Michigan

Conducted vapor intrusion studies at commercial properties to assess potential vapor migration. Scope of work included coordination of vapor intrusion points, vapor sample collection, and coordination of chemical testing.

CONSTRUCTION TESTING

Conducted construction material analysis which included soil proctors, soil sieve analysis, asphalt extractions, and concrete stress testing.

ASBESTOS INSPECTIONS AND ABATEMENT COORDINATION/OVERSIGHT

Responsible for asbestos program management including coordination and technical lead for hazardous material surveys and asbestos and mold related testing activities.

Asbestos Inspections, City of Detroit Neighborhood Redevelopment Project

Inspector of asbestos hazards at over 300 residential and commercial properties. Collected samples of suspect ACM for laboratory analysis. Provided report to the City of Detroit with findings and compliance requirements.

Asbestos Inspections, City of Inkster Neighborhood Redevelopment Project

Conducted asbestos inspections at over 100 residential and commercial properties. Collected samples of suspect ACM for laboratory analysis. Provided report to the City of Inkster with findings and compliance requirements.

Large Hotel Detroit, Michigan

Inspected the hotel property as part of a team. Collected samples, reviewed laboratory analysis, and provided client a report of methods and findings. Performed oversight of ACM abatement.

Medical Complex Kalamazoo, Michigan

Responsible for coordination of field activities for the ACM abatement of the complex. Conducted schedule and strategy meetings.

Hotel, Detroit, Michigan

Inspected the hotel property. Collected samples, reviewed laboratory analysis, and provided client a report of methods and findings.

Former Coal Power Plant

Conducted a thorough asbestos inspection of an inactive multi-building coal power plant in Detroit, Michigan. Collected samples, and performed thorough photo documentation and quantification of all ACMs in the power plant and supporting buildings.

UNDERGROUND STORAGE TANKS AND PETROLEUM REMEDIATION PROJECT

Commercial Development Royal Oak, Michigan

Coordinated the remediation of a former gasoline service station, during site development for a commercial company. Work included Phase I ESA and Phase II site investigation to evaluate USTs and hoists onsite, as well as coordinating a GPR survey for additional USTs on site, a BEA, and a Due Care Plan. Assisted with the development bid specifications for site remediation activities including UST and hoist removal, soil remediation, and asbestos abatement. Coordinated the removal of five (5) USTs, one in-ground hoist, and 300,000 cubic yards of petroleum-impacted soils.

State of Michigan

Department of Labor and Economic Opportunity higan Occupational Safety & Health Administration - Asbestos Program

Asbestos Inspector

Jelaine D. Tinslev

Accreditation Number A16395

Expiration Date 09/26/2023

This individual has satisfactorily met or exceeded the requirements of Michigan Public Act 440 of 1988, as amended, to be accredited as an Asbestos Inspector.

Accreditation card is not valid if altered.

159722





JOHN F. SCHUITEMA Associate II

PROFILE

<u>Certifications</u> Asbestos Inspector (A51781) Michigan Lead Inspector/Risk Assessor (P-07409) ICC Property Maintenance Inspector ICC Zoning Inspector 40-Hour OSHA HAZWOPER Training 8-Hour OSHA HAZWOPER Refresher

Education Lead Inspector/Risk Assessor Training Asbestos Awareness Training Lead Awareness Training Asbestos Inspector Training

Experience History Associate I, ASTI Environmental Field Technician, ASTI Environmental Government

Professional Background

Mr. Schuitema has experience in the field with soil sampling, lead dust sampling, asbestos surveys, air monitoring, hazardous materials surveys, and lead inspections. Mr. Schuitema has assisted with Phase II investigations, property condition assessments, mold sampling, indoor air quality assessments, moisture operation and maintenance plans, and performed health and safety related building inspections.

Years' Experience:

5—ASTI ENVIRONMENTAL 3—Government

ENVIRONMENTAL DUE DILIGENCE AND SITE INVESTIGATION PROJECTS

Environmental Site Assessments

Completed numerous site assessments for a variety of projects (vacant land, agricultural, residential, commercial, and industrial), to determine the environmental condition of sites for real estate transactions. Projects involved both surface and subsurface evaluations of sites for a variety of hazardous substances.

ASBESTOS AND LEAD INSPECTION AND RISK ASSESSMENTS

Responsible for asbestos inspections and lead inspections and risk assessments on commercial, multi-family, and single-family properties.

Lead Based Paint Inspections and Risk Assessments, Flint Housing Commission

Inspection of lead hazards throughout Flint's public housing complexes, dust wipe sample collection for laboratory analysis, XRF sampling, and writing the report to the Flint Housing Commission with findings and compliance requirements.

Large Apartment Complex in Flint, Michigan

Conducted asbestos inspections of over 100 residential units. Collected samples of suspect ACM for laboratory analysis. Provided report to the City of Flint with findings and compliance requirements.

INDOOR AIR QUALITY AND MOLD

Conducted mold assessments and verification sampling on municipal buildings, schools, and private facilities in the State of Michigan. Assessment scopes included mold identification and moisture infiltration, abatement scope design, and post abatement visual inspection and clearance sampling.

Conducted visual and indoor air quality clearance samples for multiple residential homes following ACM removal, prior to demolition, throughout the State of Michigan.

Highrise Apartment Building Detroit, Michigan

Monitored indoor air quality during removal of asbestos containing materials. Provided clearance air sampling upon completion.

Multiple School Buildings Detroit, Michigan

Performed visual inspection, tape lift samples, air sampling, and moisture readings to evaluate potential mold growth. Completed clearance inspection and sampling after remediation and provided the client with a report of methods and findings.

PROPERTY CONDTION ASSESSMENTS

Completed inspections of commercial, industrial, and residential properties in the State of Michigan. Identified physical deficiencies, material defects, and deferred maintenance. Reported findings, including cost estimates for repairs and replacements deemed necessary.

STORM WATER INSPECTIONS

Performed inspections of construction sites to determine compliance with state storm water regulations. Reported deficiencies and recommend remedies.

Large Apartment Complex Howell, Michigan

Conducted weekly inspections during construction to ensure compliance with construction storm water regulations. Provided weekly report with findings, deficiencies, and remedy options to the client and County.

WASTEWATER OPERATIONS

Super Fund Site, St. Joseph, Michigan

Performed monthly maintenance and sampling to insure proper operation and compliance with applicable regulations. Maintained air striper and CatOx system for removal of VOCs from contaminated groundwater.

AIR MONITORING

Former McLouth Steel Site, Trenton, Michigan

Operated outdoor air monitoring and sampling stations to ensure chemicals of concern and fugitive dust did not leave the property. Performed real time air monitoring during demolition activities.



Appendix B

Results of Asbestos Sample Analysis and Chain of Custody



Test Method, Polarized Light Microscopy (PLM)

Project: 528 Virginia Project #: 12703



Report To: Mr. David Amir ASTI Environmental 10448 Citation Dr., Suite 100 Brighton, MI 48116		ARI Report #23-103616Date Collected:03/07/23Date Received:03/09/23Date Analyzed:03/13/23Date Reported:03/14/23
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103616 - 01 Cust. #: 1A Material: Linoleum-Brown w/Brown Lines Location: 528-2 Laundry Room Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 25% Fiberglass - 5% Other - 70%
Lab ID #: 103616 - 02 Cust. #: 1B Material: Linoleum-Brown w/Brown Lines Location: 528-2 Laundry Room Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 25% Fiberglass - 5% Other - 70%
Lab ID #: 103616 - 03 Cust. #: 2A Material: Plaster Finish Coat-White Location: 528-2 Laundry Room Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

Test Method, Polarized Light Microscopy (PLM)

Project: 528 Virginia Project #: 12703



Report To: Mr. David Amir ASTI Environmental 10448 Citation Dr., Suite 100 Brighton, MI 48116		ARI Report #23-103616Date Collected:03/07/23Date Received:03/09/23Date Analyzed:03/13/23Date Reported:03/14/23
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103616 - 03a Cust. #: 2A Material: Plaster Base Coat-Grey Location: 528-2 Laundry Room Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 04 Cust. #: 2B Material: Plaster Finish Coat-White Location: 528-2 Bed 1 Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 04a Cust. #: 2B Material: Plaster Base Coat-Grey Location: 528-2 Bed 1 Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

Test Method, Polarized Light Microscopy (PLM)

Project: 528 Virginia Project #: 12703



Report To: Mr. David Amir ASTI Environmental 10448 Citation Dr., Suite 100 Brighton, MI 48116	Ashastas Tupa/Paraant	ARI Report # 23-103616 Date Collected: 03/07/23 Date Received: 03/09/23 Date Analyzed: 03/13/23 Date Reported: 03/14/23
Lab ID #: 103616 - 05 Cust. #: 2C Material: Plaster Finish Coat-White Location: 528-2 Bed 2 Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Type/Tercent Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 05a Cust. #: 2C Material: Plaster Base Coat-Grey Location: 528-2 Bed 2 Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 06 Cust. #: 2D Material: Plaster Base Coat-Grey Location: 528-1 Laundry 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.

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. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

Test Method, Polarized Light Microscopy (PLM)

Project: 528 Virginia Project #: 12703



Report To: Mr. David Amir ASTI Environmental 10448 Citation Dr., Suite 100 Brighton, MI 48116		ARI Report #23-103616Date Collected:03/07/23Date Received:03/09/23Date Analyzed:03/13/23Date Reported:03/14/23
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103616 - 07 Cust. #: 2E Material: Plaster Finish Coat-White Location: 528-1 Laundry Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 07a Cust. #: 2E Material: Plaster Base Coat-Grey Location: 528-1 Laundry Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 08 Cust. #: 3A Material: Vinyl Plank FlTan/Brown Faux Wood/I Location: 528-2 Hall Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed FT	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

Test Method, Polarized Light Microscopy (PLM)

Project: 528 Virginia Project #: 12703



Report To: Mr. David Amir ASTI Environmental 10448 Citation Dr., Suite 100 Brighton, MI 48116		ARI Report #23-103616Date Collected:03/07/23Date Received:03/09/23Date Analyzed:03/13/23Date Reported:03/14/23
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103616 - 08a Cust. #: 3A Material: Mastic & Backing Location: 528-2 Hall Appearance: clear,nonfibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 09 Cust. #: 3B Material: Vinyl Plank FlTan/Brown Faux Wood/H Location: 528-2 Kitchen Appearance: brown,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed FT	Other - 100%
Lab ID #: 103616 - 10 Cust. #: 4A Material: Tile Grout-Grey Location: 528-2 1/2 Bath 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 #: 103616 - 11 Cust. #: 4B Material: Tile Grout-Grey Location: 528-2 1/2 Bath Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 12 Cust. #: 5A Material: Tile Grout-White Location: 528-2 Full Bath Walls Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 13 Cust. #: 5B Material: Tile Grout-White Location: 528-2 Full Bath Appearance: white,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 #: 103616 - 14 Cust. #: 6A Material: Caulk-White Location: 528-2 Bathroom Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 15 Cust. #: 6B Material: Caulk-White Location: 528-2 Bathroom Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 16 Cust. #: 7A Material: Linoleum-Beige, Brown & Rust Spots Location: Kitchen Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Synthetic - 5% Wollastonite - 2% Other - 68%

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Test Method, Polarized Light Microscopy (PLM)

Project: 528 Virginia Project #: 12703



23-103616

ARI Report #

Mr. David Amir ASTI Environmental 10448 Citation Dr., Suite 100 Brighton, MI 48116		Date Collected:03/07/23Date Received:03/09/23Date Analyzed:03/13/23Date Reported:03/14/23
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103616 - 17 Cust. #: 7B Material: Linoleum-Beige, Brown & Rust Spots Location: Kitchen Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Synthetic - 5% Wollastonite - 2% Other - 68%
Lab ID #: 103616 - 18 Cust. #: 8A Material: Sink Undercoat-Black Location: Kitchen Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 19 Cust. #: 8B Material: Sink Undercoat-Black Location: Kitchen Appearance: black,nonfibrous,homogenous	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Report To:

NVLAP Lab Code 102118-0

Test Method, Polarized Light Microscopy (PLM)

Project: 528 Virginia Project #: 12703



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Lab ID #: 103616_20	A shestos Present: NO	Other 100%
Lab ID #: 103616 - 20 Cust. #: 9A Material: Linoleum-Beige w/White Lines/ & Mastic Location: Laundry Room Appearance: beige,nonfibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Otner - 100%
Lab ID #: 103616 - 21 Cust. #: 9B Material: Linoleum-Beige w/White Lines/ & Mastic Location: Laundry Room Appearance: black,nonfibrous,nonhomogenous 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 #: 103616 - 22a Cust. #: 10A Material: Mastic Location: Bedroom 3 Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 23 Cust. #: 10B Material: 9x9 Floor Tile-Beige Location: Bedroom 3 Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 103616 - 23a Cust. #: 10B Material: Mastic Location: Bedroom 3 Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 103616 - 24 Cust. #: 11A Material: Brick Mortar-Grey Location: Exterior Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 25 Cust. #: 11B Material: Brick Mortar-Grey Location: Exterior Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 26 Cust. #: 12A Material: Ext. Caulk-White Location: Exterior Appearance: white,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 #: 103616 - 27 Cust. #: 12B Material: Ext. Caulk-White Location: Exterior Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 103616 - 22pc Cust. #: 10A Material: 9x9 Floor Tile-Beige	Asbestos Present: YES Chrysotile - 1.75%	Other - 98.25%
Appearance: grey,fibrous,homogenous Layer: of	POINT COUNT RESULT	
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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NVLAP Lab Code 102118-0

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	$ \begin{array}{c} 1B \\ 24 \\ 2B \\ 2C \\ 2D \\ 2E \\ \begin{array}{c} 2B \\ 2C \\ 2D \\ 2E \\ \begin{array}{c} 3B \\ 44 \\ 4B \\ 5A \\ \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \frac{18}{24} \qquad \frac{1}{1002004} \qquad \frac{1}{10000} \qquad \frac{1}{10000} \qquad \frac{1}{100000} \qquad \frac{1}{100000} \qquad \frac{1}{100000} \qquad \frac{1}{100000} \\ \frac{24}{24} \qquad \frac{1}{10000000} \qquad \frac{1}{10000000000000000000000000000000000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \frac{18}{24} = \frac{1}{1000000} = \frac{1}{1000000} = \frac{1}{10000000000000000000000000000000000$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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	11054 Hi Te	ch Drive, Whitmore Lake, MI 48189.	Phone: (734) 449 - 9990, F	ax (734) 449 - 9	991 www.ApexN	1I.com	
			Date of Survey:				Lab
Customer Name: <u>ASTI</u>			Project: 528 Virginin				Log-
Address: 10448 Citation Dr.			Project # <u>/2703</u>				
City, St., Zip	$\frac{\text{Brighton, WI, 481}}{225,2800}$		Contact Person: <u>I</u>	Jave Amir			Fax:
Phone: 810-225-2800 Fax:			Email: <u>damir@asti-env.com</u> jschuitema@asti-env.com				Verb
Turn Arouna	Time: (CITCIE OTIE)***Tern	ns and conditions on the other side.	Circle analyses requ	lirea, indicate	type and qua	antity	Ema
Rush	24 hour	Asbestos:	Bulk <u>A</u> Wip	e	Point Count _	PCM	
48 hour	72 hour	Lead / Cad / Chrome:	Wipe ASTM E1792? circle	YES or NO	Air	Paint	Bulk
Other:	TTP y ks	/ no Mold:	Bulk Air/2	Zefon/Alergend	coD	BioSIS	Tape
Samples received after logged in next mornir	r 3pm (Test Till Posit Ig	TEM:	Bulk/NOB	NIOSH 7402	EPA Le	evel II	Othe
Lab ID	Customer ID #	Material/Lo	ocation	Volume	Area	Res	ults
	5B	Tile Grout - White -	SZT-Z Full Bas	46			
	64	Caulk - White -	528-2 Billrow				
	6 B	i.	C1	-			
	74	Linoleum - Beige, Bro	und Rust Spots-	Ktchn			
	Пß		<i>u</i>				
	8A	Sink under coat -	Black - Kitch	h			
	8B	h	<i>l</i> *				
	9A	Lindeom - Baige u	of white lims -	Launday	Room		
	9 B	h	́и	/		RECE	EIVED
	104	Floor tile - 9×9-	Big - Red.	oom 3		MAD A	<u>11</u> 202
	10B	10	0	4		WIN V	0 202
	114	Brick Moster - G.	ay - Exterior			APEX RE	SEAR
	A						

	• 3	APEX	Research, Inc	•			(
	11054 Hi Te	ch Drive, Whitmore Lake, MI 48189.	Phone: (734) 449 - 9990, F	ax (734) 449 - 99	91 www.ApexM	II.com	- -
Customor			Date of Survey: $3/7/2023$				Lab U
Address: 10448 Citation Dr. City, St., Zip: Brighton, MI, 48169 Phone: 810-225-2800 Fax:			Project # 12 7.7				Log-I
			Contact Person: Dave Amir				
			Email: damir@asti-env.com jschuitema@asti-env.com				⊦ax: Verba
48 hour	72 bour	Lead / Cad / Chrome:	Wipe ASTM E1792? circle	YES or NO	Air	Paint	Bulk
Other:	TTP vks	/ no Mold:	Bulk Air/	Zefon/Alergenc	D	BioSIS	Tana
Samples received aff	er 3pm (Test Till Posit	ive) TEM.		NIOSI 7402			
logged in next morn	ng I	, L .,,,		NIOSH /402_	EFA Le	I	Othe
Lab ID	Customer ID #	Material/Lo	cation	Volume	Area	Res	ults
	118	Brick Morter -	Gray - Exterior				
	1214	Ert Caulk - W	hite - Exterior	-			
	12B	11	11				
					• / • • •		
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		MAN V 9 2023					
		APEX RESEARCH					
		APEX RESEARCH					

Appendix C

Photo Log



PHOTO LOG 528 Virginia Avenue, Ann Arbor, Michigan



ASTI Project No. 12703 March 7, 2023 Photographed By Jelaine D. Tinsley



ASTI ENVIRONMENTAL

Environmental Investigation, Remediation, Compliance and Restoration Projects Throughout The Great Lakes Since 1985.

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- ENVIRONMENTAL ASSESSMENTS AND IMPACT STATEMENTS
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- GIS MAPPING
- HAZARD MITIGATION PLANNING
- MINING AND RECLAMATION ASSISTANCE
- **REMEDIATION IMPLEMENTATION, OPERATION AND MAINTENANCE**
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- REGULATORY COMPLIANCE AND PERMITTING
- SOIL AND GROUNDWATER ASSESSMENTS
- SOIL AND GROUNDWATER REMEDIATION
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- THREATENED AND ENDANGERED SPECIES SURVEYS
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