

Illinois Department of Transportation

Asbestos Abatement Survey

Work Order No.: 33

Job Order No.: R-91-016-20

Route: I-80

Parcel No.: 1P10155

600 Des Plaines Street

Joliet, Will County, Illinois 60436

August 30, 2024

Asbestos Abatement Survey

Work Order No.: 33
Job Order No.: R-91-016-20
Route: I-80
Parcel No.: 1P10155
600 Des Plaines Street
Joliet, Will County, Illinois 60436

August 30, 2024

Prepared By:

Arcadis U.S., Inc.
225 West Wacker Drive
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Chicago, Illinois 60606
Phone: 312 917 1000

Prepared For:

Illinois Department of Transportation
2300 South Dirksen Parkway
Springfield, IL 62764

Our Ref:

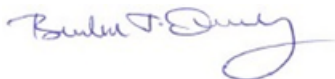
30227204



Anthony Spalla
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Brendan J. Quealy
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Acronyms and Abbreviations

ACM	asbestos-containing material
AHERA	Asbestos Hazard Emergency Response Act
Arcadis	Arcadis U.S., Inc.
ASTM	ASTM International
CFR	Code of Federal Regulations
COC	chain of custody
DS	dispersion staining
HA	homogeneous area
IAC	Illinois Administrative Code
IDPH	Illinois Department of Public Health
IDOT	Illinois Department of Transportation
IEPA	Illinois Environmental Protection Agency
NESHAP	National Emissions Standards for Hazardous Air Pollutant
NIOSH	National Institute for Occupational Safety and Health
NVLAP	National Voluntary Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PLM	polarized light microscopy
PPE	personal protective equipment
QA/QC	quality control/quality assurance
STAT	STAT Analysis Corporation of Chicago, Illinois
USEPA	United States Environmental Protection Agency

1 Introduction

Arcadis U.S., Inc. (Arcadis) conducted an asbestos abatement survey (survey) at Parcel No. 1P10155 located at 600 Des Plaines Street, Joliet, Will County, Illinois (Site) in accordance with Work Order No. 33 under the Prime Agreement for Consulting Services for PTB No. 202-043 between Illinois Department of Transportation (IDOT) and Arcadis. Arcadis' services and report are subject to the Limitations and Service Constraints provided in **Appendix A**.

The Site is improved with a one-and-a-half story, residential building with a partially finished walkout basement, constructed in 1890, and covering approximately 2,040 square feet.

The objective of the survey was to ascertain the general presence, quantity, and location of asbestos-containing materials (ACMs) at the site that may be impacted by the planned demolition and provide preliminary cost estimates for asbestos abatement that may be required prior to demolition activities.

The survey activities were conducted on June 11, 2024, by Anthony Spalla of Arcadis U.S., Inc. (Arcadis) and Patrick Hook of A3 Environmental, LLC (A3E). Copies of their accreditations are provided in **Appendix B**.

2 Survey Methodology

Arcadis conducted the asbestos survey in compliance with the United States Environmental Protection Agency (USEPA) National Emissions Standards for Hazardous Air Pollutants (NESHAPs), applicable State of Illinois and local asbestos regulations. This was accomplished by conducting a visual inspection of the structures to be impacted by the planned demolition and collecting samples of suspect ACM based on these observations. Arcadis conducted the asbestos survey in general accordance with ASTM International (ASTM) E2356 Standard Practice for Comprehensive Building Asbestos Surveys. ASTM E2356 meets the applicable asbestos survey and/or sampling requirements of current USEPA NESHAP Standard [40 Code of Federal Regulations (CFR) 61, Subpart M (Asbestos)], USEPA Asbestos Hazard Emergency Response Act (AHERA) [40 CFR 763, Subpart E], and Occupational Safety and Health Administration (OSHA) Asbestos Construction Standard [29 CFR 1926.1101].

The survey included an inspection of the structures to be impacted by the planned demolition providing a general sense of the overall location, type, quantity, and condition of suspect ACMs present. The asbestos survey included a visual and physical assessment of each accessible space to locate suspect ACMs. Suspect materials were divided into "Homogeneous Areas" (HAs) (i.e., materials that were determined by the inspector to be homogeneous based on their color, texture, and assumed date of installation).

A representative number of samples were collected from each HA. Bulk material samples were collected in 4-milliliter plastic bags, and tightly sealed for transport to STAT Analysis Corporation (STAT) in Chicago, Illinois. Each sample collected by Arcadis was assigned its own unique coded number and sent for laboratory analysis under a chain-of-custody (COC) protocol.

The survey included destructive, intrusive, and/or exploratory testing unless specifically prohibited by IDOT. Destructive sampling is performed in order to identify materials which are hidden or obstructed. Hidden or obstructed areas include but are not limited to wall cavities, pipe chases, spaces above fixed ceilings, materials located under carpeting or subfloors, and ceramic tile grout/adhesive.

3 Analytical Methods

Asbestos bulk samples were analyzed for asbestos (reported in percent of type of asbestos) using polarized light microscopy with dispersion staining (PLM/DS) in accordance with the USEPA Method 600/R-93/116. Percentage estimates of each material's composition are based on the analyst's best visual judgment following PLM/DS analysis, and examination with a stereoscope.

STAT is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP). A copy of their accreditation is provided in **Appendix B**. Laboratory analytical reports are provided in **Appendix C**.

4 Findings

Arcadis identified twenty-two (22) HAs from which sixty-three (63) samples were collected and analyzed. A listing of the identified HAs, including each HA material description, location, sample number, condition, asbestos content, and estimated quantity, are presented in Table 1. Approximate sampling locations are shown on Figures 1-4 and locations of identified assumed ACM is shown on Figure 5.

The USEPA defines ACM as a material containing greater than 1% asbestos. Materials containing less than 1% asbestos are not regulated by the USEPA or the State of Illinois, but their disturbance is regulated by OSHA.

No HAs have been confirmed to be ACM. One HA was identified as assumed ACM:

- HA-17: Black Sealant on the Chimney on the House Roof

The remaining bulk samples collected by Arcadis as part of the survey were reported by the laboratory to be ND = Asbestos Not Detected (Not Present).

Representative photographs are provided in **Appendix D**.

5 Recommendations

ACMs identified at the site that may be disturbed during demolition activities, must be removed by a licensed asbestos abatement contractor utilizing industry standard work procedures in accordance with all federal, state, and local regulations governing asbestos.

If other suspect materials not referenced in this survey report are identified during demolition activities, we recommend these materials be assumed ACM until the materials are inspected by a licensed asbestos inspector, sampled, and submitted for laboratory analysis.

7 Additional Survey Limitations

Arcadis' survey is subject to the following survey limitations.

- The investigation did not include access or inspection of confined spaces, underground piping, conduits, and building footings, if any.
- If other suspect materials, not referenced in this survey report, are identified during renovation or demolition activities, Arcadis recommends that these materials be considered regulated until they are inspected by an appropriately certified inspector and proven otherwise.
- Utilities/services, including electric, water, and heat, were active in most areas surveyed. Materials associated with electrical components and energized equipment were not safely accessible and were not sampled.

Table

Table 1. Asbestos Homogeneous Areas Summary
IDOT - Asbestos Abatement Survey
WO #33
600 Des Plaines Street, Joliet, Illinois

HA No.	Material Description	Material Location	Sample Number	Condition	Friability	Asbestos Content	Estimated Quantity	Unit	Notes
1	White Gypsum Board	Walls and Ceilings Throughout with the exception of the Living Room and Two Stairwells	1A, 1B, 1C	Good	Non-Friable	NAD	3,000	SF	
2	White Joint Compound associated with HA-1	Walls and Ceilings Throughout with the exception of the Living Room and Two Stairwells	2A, 2B, 2C	Good	Friable	NAD	3,000	SF	
3	Beige Drywall Tape associated with HA-1	Walls and Ceilings Throughout with the exception of the Living Room and Two Stairwells	3A, 3B, 3C	Good	Non-Friable	NAD	3,000	SF	
4	Beige 12" x 12" Ceramic Floor Tile	Throughout 1st Floor with the exception of the Kitchen	4A, 4B, 4C	Good	Non-Friable	NAD	570	SF	
5	White Adhesive associated with HA-4	Throughout 1st Floor with the exception of the Kitchen	5A, 5B, 5C	Good	Non-Friable	NAD	570	SF	
6	Dark Gray Grout associated with HA-4	Throughout 1st Floor with the exception of the Kitchen	6A, 6B, 6C	Good	Non-Friable	NAD	570	SF	
7	Tan with Red Tint 12" x 12" Ceramic Tile	1st Floor Kitchen, Basement Laundry, Bathroom, Foyer	7A, 7B, 7C	Good	Non-Friable	NAD	312	SF	Gypsum Board under HA-7 as a floor leveler
8	Gray Adhesive associated with HA-7	1st Floor Kitchen, Basement Laundry, Bathroom, Foyer	8A, 8B, 8C	Good	Non-Friable	NAD	312	SF	
9	Black Grout associated with HA-7	1st Floor Kitchen, Basement Laundry, Bathroom, Foyer	9A, 9B, 9C	Good	Non-Friable	NAD	312	SF	
10	Gray Leveling Compound under HA-5	Throughout 1st Floor	10A, 10B, 10C	Good	Non-Friable	NAD	756	SF	
11	Yellow Glue under Wood Laminate Flooring	Throughout 2nd Floor	11A, 11B, 11C	Good	Non-Friable	NAD	500	SF	
HA-12 was not used During this Asbestos Survey									
13	Gray Plank Flooring	Kitchen	13A, 13B, 13C	Good	Non-Friable	NAD	132	SF	
14	Gray Concrete Foundation	Basement	14A, 14B, 14C	Good	Non-Friable	NAD	750	SF	
15	Black Asphalt Shingles	House Roof and North Bump-Out Addition	15A, 15B, 15C	Good	Non-Friable	NAD	925	SF	
16	Black Felt Layer under HA-15	House Roof and North Bump-Out Addition	16A, 16B, 16C	Good	Non-Friable	NAD	925	SF	
17	Black Sealant	House Roof Chimney	17A, 17B, 17C	Good	Assumed ACM	NAD	8	LF	
HA-18 was not used During this Asbestos Survey									
19	Red/Black Asphalt Shingle under HA-15 (2nd Layer)	House Roof and North Bump-Out Addition	19A, 19B, 19C	Good	Non-Friable	NAD	925	SF	
20	White Skimcoat Plaster	Dining Room, Living Room, Two Stairwells	20A, 20B, 20C	Good	Non-Friable	NAD	650	SF	

Table 1. Asbestos Homogeneous Areas Summary
 IDOT - Asbestos Abatement Survey
 WO #33
 600 Des Plaines Street, Joliet, Illinois



HA No.	Material Description	Material Location	Sample Number	Condition	Friability	Asbestos Content	Estimated Quantity	Unit	Notes
21	Gray Base Coat Plaster	Dining Room, Living Room, Two Stairwells	21A, 21B, 21C	Good	Non-Friable	NAD	650	SF	
22	Gray Mortar associated with Stone	East Side of House	22A, 22B, 22C	Good	Non-Friable	NAD	270	SF	
23	Gray Troweled on Mortar	South Side of House	23A, 23B, 23C	Good	Non-Friable	NAD	225	SF	
24	Beige Joint Compound associated with HA-1	Walls and Ceilings Throughout with the exception of the Living Room and Two Stairwells	24A, 24B, 24C	Good	Friable	NAD	3000	SF	Beige and White Joint Compound attached

Notes:

ACM = Asbestos-Containing Material

Assumed ACM = A material determined by the inspector to be suspect ACM and is considered asbestos-containing until laboratory analysis can prove otherwise.

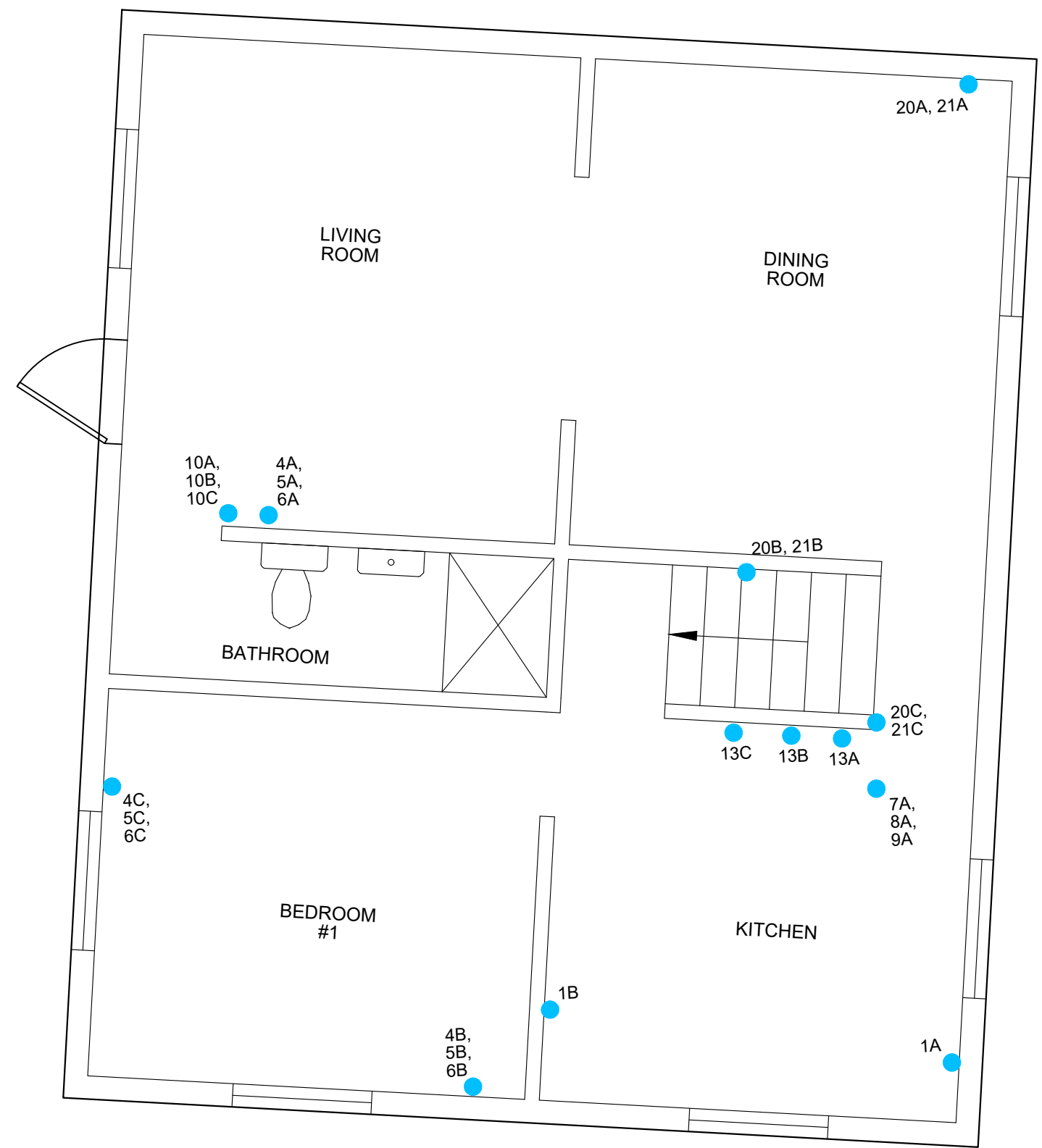
NAD = No Asbestos Detected

EA = Each

LF = Linear Foot

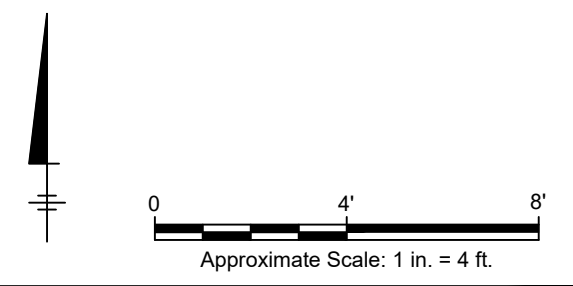
SF = Square Foot

Figures

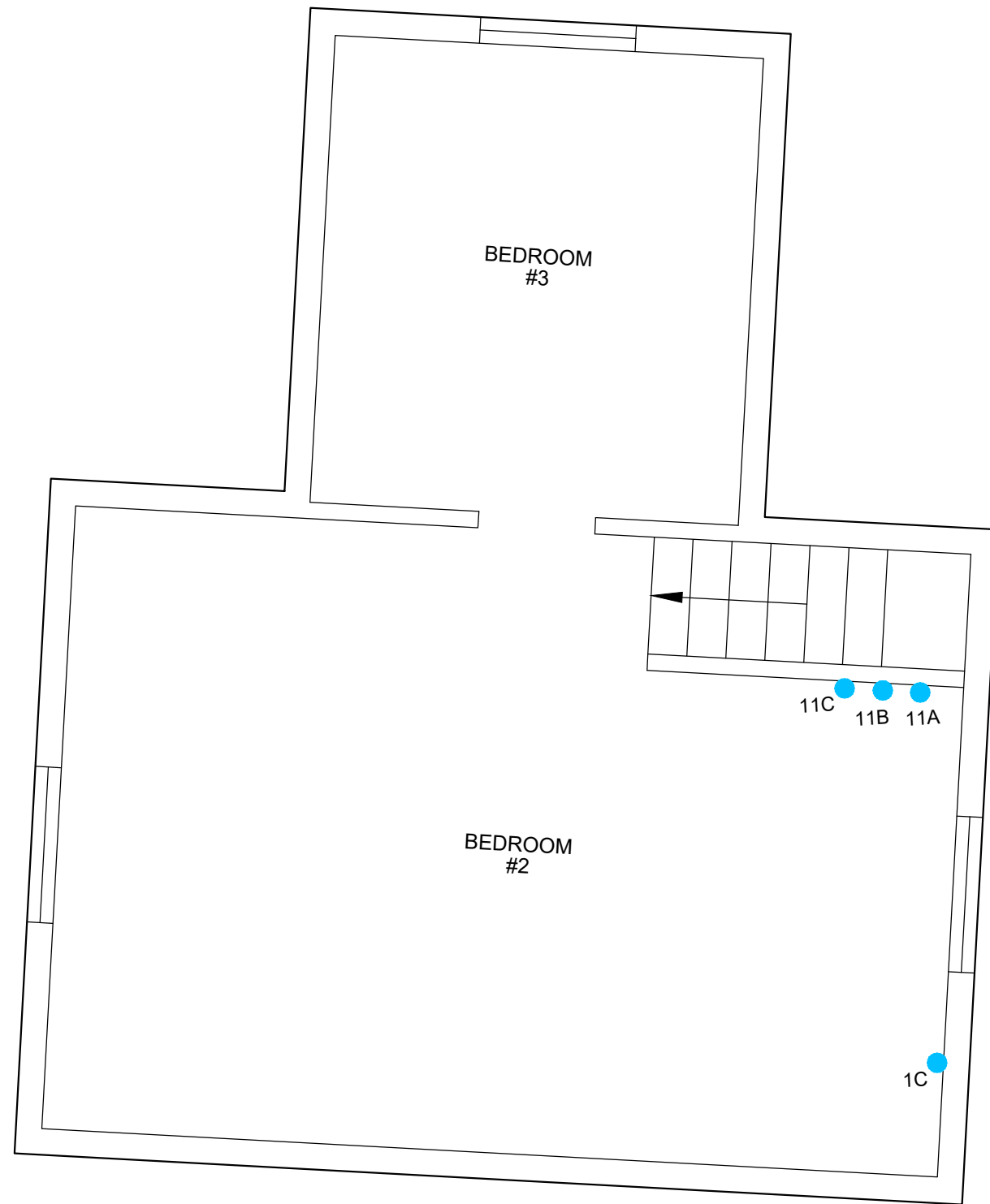


LEGEND
● ASBESTOS SAMPLE

NOTE
BASE MAP DEVELOPED FROM ONSITE INVESTIGATION.



30227204.01 - IDOT / Asbestos Surveys WO #33 Job No. R-91-0016-20 Route I-80 Parcel 1P10155 600 Des Plaines Street Joliet, Will County, Illinois ASBESTOS ABATEMENT SURVEY	
SAMPLING LOCATIONS - FIRST FLOOR	
	FIGURE 1



LEGEND

● ASBESTOS SAMPLE

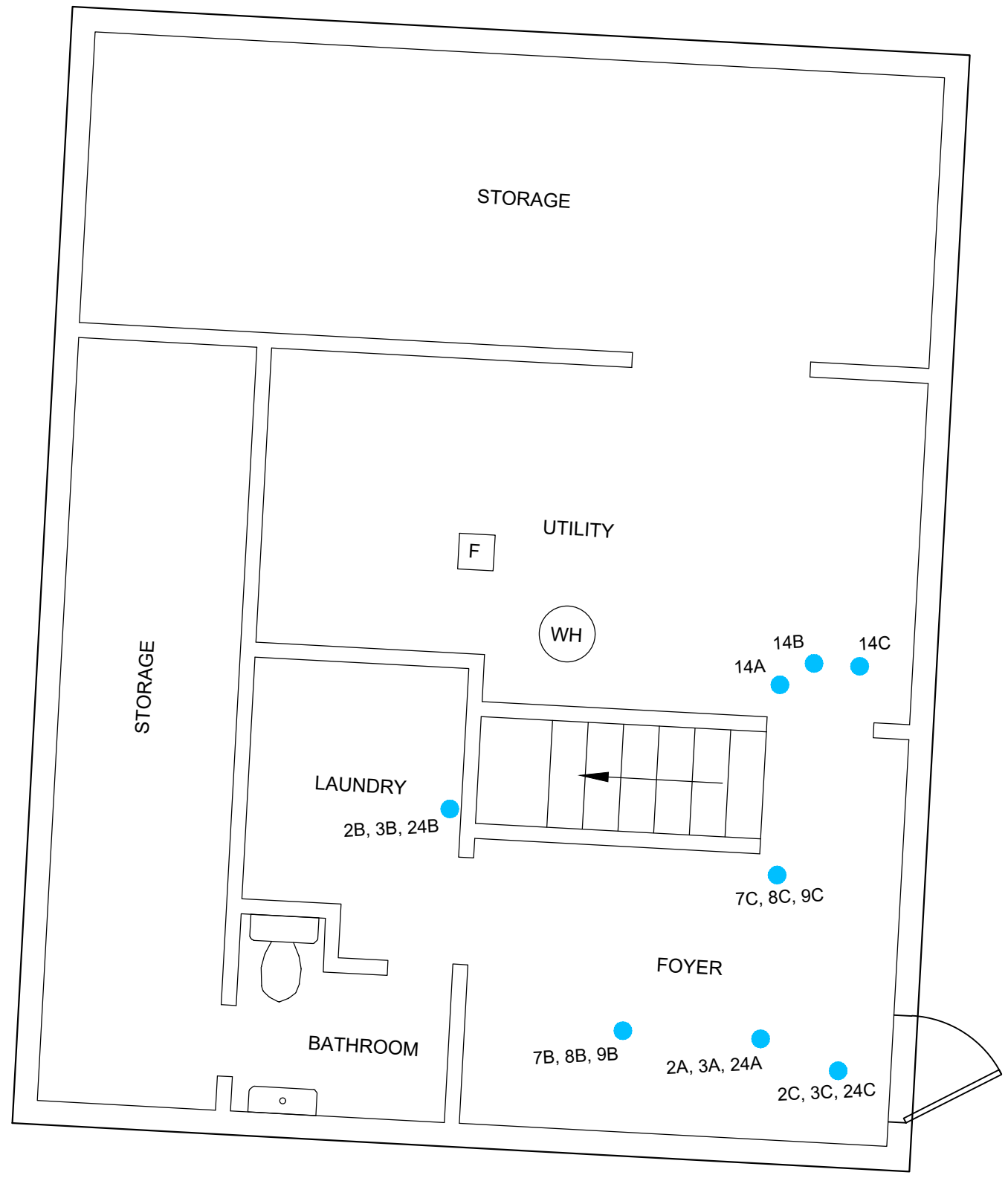
NOTE

BASE MAP DEVELOPED FROM ONSITE INVESTIGATION.



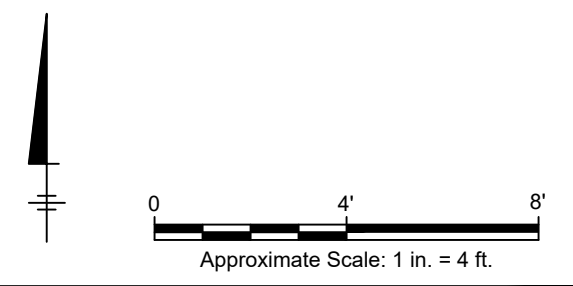
Approximate Scale: 1 in. = 4 ft.

30227204.01 - IDOT / Asbestos Surveys WO #33 Job No. R-91-0016-20 Route I-80 Parcel 1P10155 600 Des Plaines Street Joliet, Will County, Illinois ASBESTOS ABATEMENT SURVEY	
SAMPLING LOCATIONS - SECOND FLOOR	
	FIGURE 2

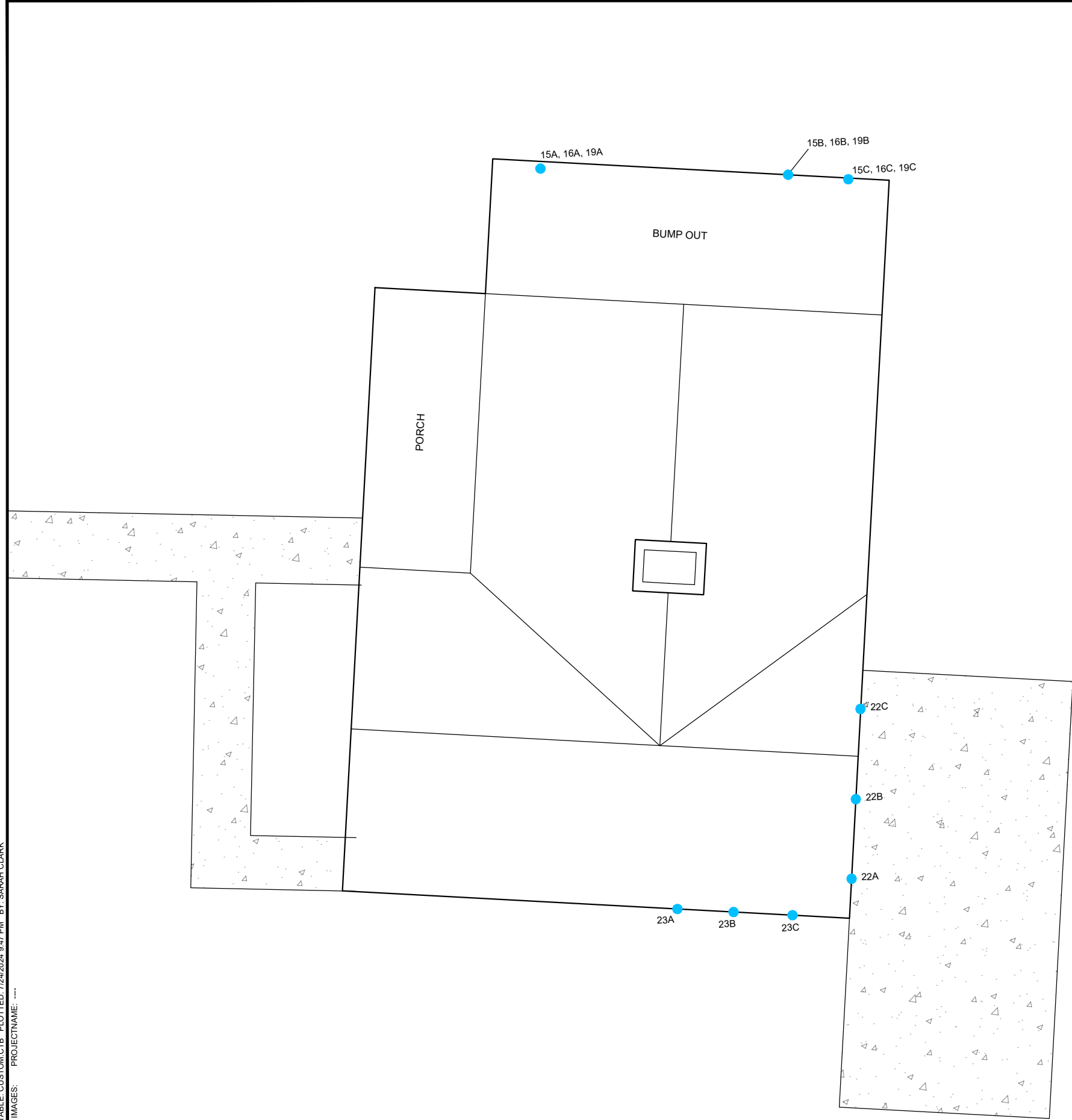


LEGEND
● ASBESTOS SAMPLE

NOTE
BASE MAP DEVELOPED FROM ONSITE INVESTIGATION.



30227204.01 - IDOT / Asbestos Surveys WO #33 Job No. R-91-0016-20 Route I-80 Parcel 1P10155 600 Des Plaines Street Joliet, Will County, Illinois ASBESTOS ABATEMENT SURVEY	
SAMPLING LOCATIONS - BASEMENT	
	FIGURE 3



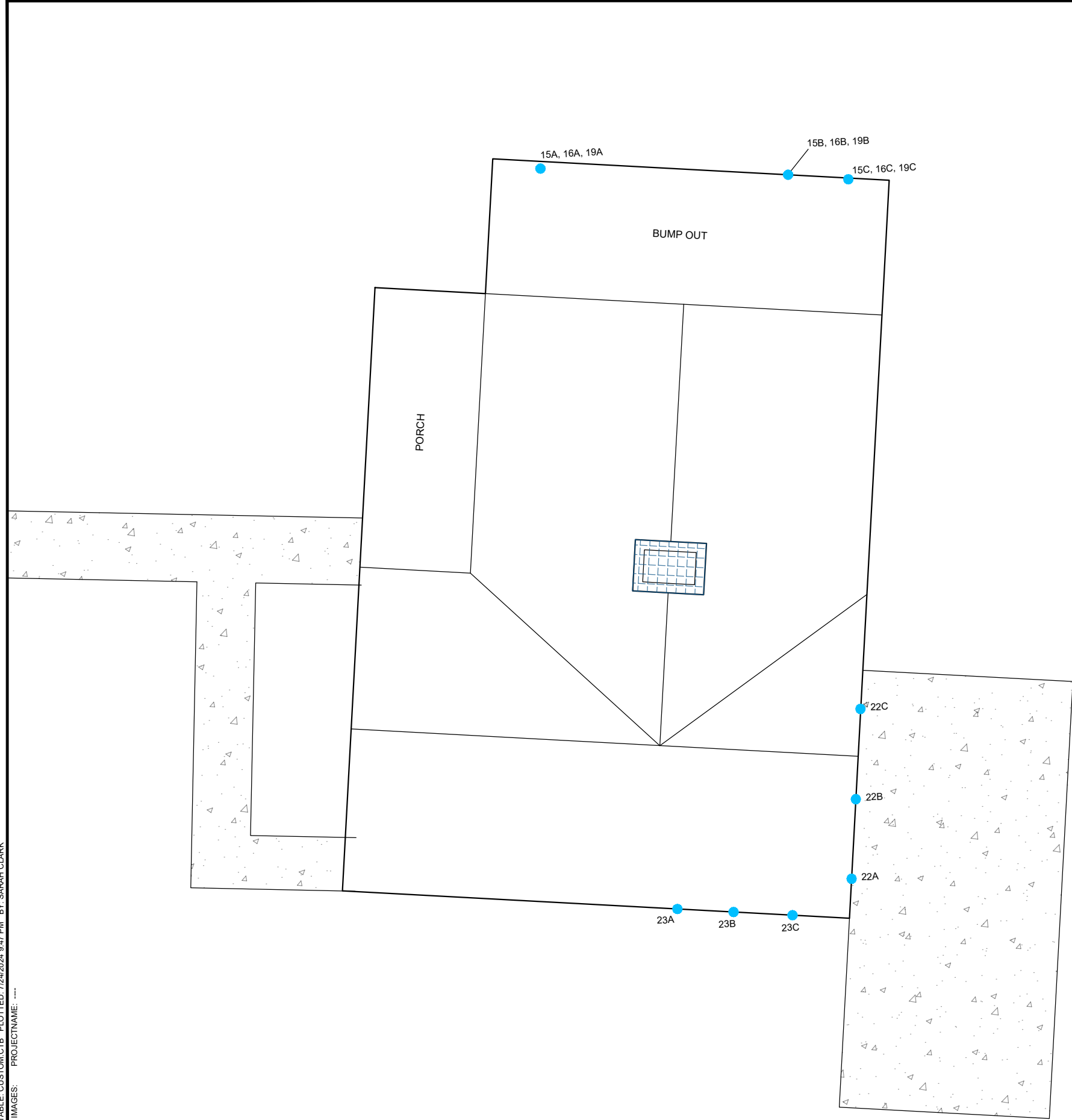
LEGEND

● ASBESTOS SAMPLE

NOTE

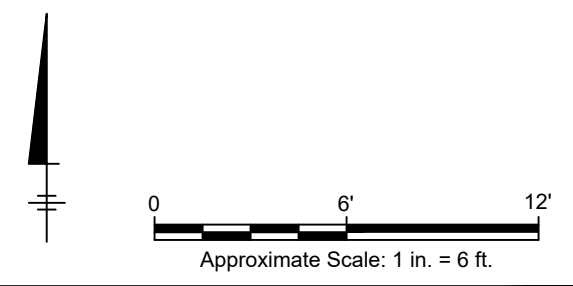
BASE MAP DEVELOPED FROM ONSITE INVESTIGATION.

30227204.01 - IDOT / Asbestos Surveys WO #33 Job No. R-91-016-20 Route I-80 Parcel 1P10155 600 Des Plaines Street Joliet, Will County, Illinois ASBESTOS ABATEMENT SURVEY	
SAMPLING LOCATIONS - EXTERIOR	
	FIGURE 4



- LEGEND**
- ASBESTOS SAMPLE
 - ▤ HA-17: Assumed ACM - Black Chimney Sealant

NOTE
BASE MAP DEVELOPED FROM ONSITE INVESTIGATION.



30227204.01 - IDOT / Asbestos Surveys WO #33
Job No. R-91-016-20
Route I-80 Parcel 1P10155
600 Des Plaines Street
Joliet, Will County, Illinois
ASBESTOS ABATEMENT SURVEY

**ASBESTOS CONTAINING MATERIAL
LOCATIONS - EXTERIOR**

ARCADIS

FIGURE
5

Appendix A

Limitations and Service Constraints

Limitations and Service Constraints

The opinions, conclusions and recommendations presented in this report are limited to the information obtained during the performance of the specific scope of service identified in the report. To the extent that Arcadis relied upon any information prepared by other parties not under direct contract to Arcadis, no representation as to the accuracy or completeness of such information is made. This report is an instrument of professional service and the services described in the report were performed in accordance with generally accepted standards and level of skill and care ordinarily exercised by members of the profession working under similar conditions including comparable budgetary and schedule constraints. No warranty, guarantee or certification express or implied, is intended or given with respect to Arcadis' services, opinions, conclusions, or recommendations. This statement is in lieu of any other statement either expressed or implied.

Arcadis' observations, the results of testing and Arcadis' opinions, conclusions and recommendations apply solely to conditions existing at the specific times when and specific locations where Arcadis' investigative work was performed. Arcadis affirms that data gathered and presented by Arcadis in this report was collected in an appropriate manner in accordance with generally accepted methods and practices. Arcadis cannot be responsible for decisions made by our client solely on the basis of economic factors. Observation and testing activities such as those conducted by Arcadis are inherently limited and do not represent a conclusive or complete characterization. Arcadis analyzed only the substances, conditions and locations described in the report at the time indicated. Conditions in other parts of the project site, building or area may vary from conditions at the specific locations where observations were made and where testing was performed by Arcadis. Additionally, other building material hazards which were not identified by Arcadis, may also be present in inaccessible areas, including within walls and cavities, above ceilings, and below floors. Therefore, the extent of Arcadis' opinions, conclusions and recommendations are limited and 100% confidence in these opinions, conclusions and recommendations cannot reasonably be achieved. Nothing contained in this report shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards nor shall it be considered medical advice or consultation.

This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared and for the particular purpose outlined in the report. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk. This report must be presented in its entirety.

Appendix B

Accreditations

Inspector

Laboratory



ASBESTOS PROFESSIONAL LICENSE

ID NUMBER

100 - 20504

ISSUED

8/1/2023

EXPIRES

05/15/2024

ANTHONY F SPALLA
4622 N RACINE AVE., APT 17
CHICAGO, IL 60640

Environmental Health



ENDORSEMENTS

TC EXPIRES

INSPECTOR

7/14/2024

PROJECT MANAGER

7/15/2024

AIR SAMPLING PROFESSIONAL

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois
Department of Public Health

This license is valid only when accompanied by a valid
training course certificate.



OCCUPATIONAL TRAINING & SUPPLY, INC.

Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that

Anthony Spalla

has successfully completed the Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health and Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 7/14/2023

Exam Date: 7/14/2023

Expiration Date: 7/14/2024

Certificate Number: BIR2307142002

Kathy DeSalvo, Director



525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.dph.illinois.gov

PATRICK W HOOK
2025 WOODLANE DR
LINDENHURST, IL 60046

3/11/2024



ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 10967

Enclosed is your Asbestos Professional License. Please note the expiration date on the card and in the image depicted below.

COPY OF THE ASBESTOS PROFESSIONAL LICENSE

Front of License

Back of License

			ASBESTOS PROFESSIONAL LICENSE	ENDORSEMENTS	TC EXPIRES
ID NUMBER 100 - 10967	ISSUED 3/11/2024	EXPIRES 05/15/2025	INSPECTOR		1/12/2025
PATRICK W HOOK 2025 WOODLANE DR LINDENHURST, IL 60046 Environmental Health			PROJECT MANAGER		1/13/2025
			Alteration of this license shall result in legal action This license issued under authority of the State of Illinois Department of Public Health This license is valid only when accompanied by a valid training course certificate.		

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.

Our WEB address is: dph.illinois.gov/topics-services/environmental-health-protection/asbestos
EMAIL Address: dph.asbestos@illinois.gov

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101202-0

STAT Analysis Corporation
Chicago, IL

*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).*

2023-07-01 through 2024-06-30

Effective Dates



A handwritten signature in blue ink, reading 'Dana S. Laman'.

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

STAT Analysis Corporation

STAT Analysis Corporation
2242 W. Harrison St. Suite 200
Chicago, IL 60612
Carolyn Mazzuca
Phone: 312-733-0551
Email: cmazzuca@statanalysis.com
<http://www.STATAnalysis.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101202-0

Bulk Asbestos Analysis

Code

Description

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

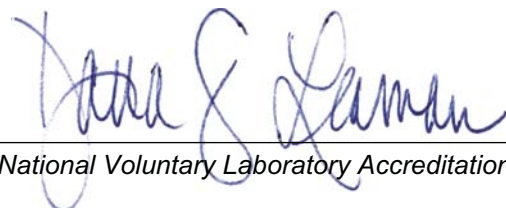
Airborne Asbestos Analysis

Code

Description

18/A02

U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.



For the National Voluntary Laboratory Accreditation Program

Appendix C

Laboratory Reports

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Arcadis US Inc.
 225 W. Wacker Drive, Suite 2015
 Chicago, IL 60606
 Phone: (312) 575-3718

Reference:	30227204	Date Received:	06/14/2024
Location:	IDOT WO#33 600 DesPlaines St	Date Analyzed:	06/21/2024
Batch No.:	371089	Date Reported:	06/21/2024
Customer No.:	2530	Turn Around Time:	5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
371089001	1A	ND	Cellulose 5-10% Binder 90-95%
371089002	1C	ND	Cellulose 5-10% Binder 90-95%
371089003	1C	ND	Cellulose 5-10% Binder 90-95%
371089004	2A	ND	Cellulose 1-5% Binder 95-99%
371089005	2B	ND	Cellulose 1-5% Binder 95-99%
371089006	2C	ND	Cellulose 1-5% Binder 95-99%
371089007	3A	ND	Binder 1-5% Glass 95-99%
371089008	3B	ND	Binder 1-5% Glass 95-99%
371089009	3C	ND	Binder 1-5% Glass 95-99%
371089010	4A	ND	Binder 99-100%
371089011	4B	ND	Binder 99-100%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

Analyzed by Name : 
 Alex Ziauddin / Microscopist

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Arcadis US Inc.
 225 W. Wacker Drive, Suite 2015
 Chicago, IL 60606
 Phone: (312) 575-3718

Reference:	30227204	Date Received:	06/14/2024
Location:	IDOT WO#33 600 DesPlaines St	Date Analyzed:	06/21/2024
Batch No.:	371089	Date Reported:	06/21/2024
Customer No.:	2530	Turn Around Time:	5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
371089012	4C	ND	Binder 99-100%
371089013	5A	ND	Binder 99-100%
371089014	5B	ND	Binder 99-100%
371089015	5C	ND	Binder 99-100%
371089016	6A	ND	Cellulose 1-5% Binder 95-99%
371089017	6B	ND	Cellulose 1-5% Binder 95-99%
371089018	6C	ND	Cellulose 1-5% Binder 95-99%
371089019	7A	ND	Binder 99-100%
371089020	7B	ND	Binder 99-100%
371089021	7C	ND	Binder 99-100%
371089022	8A	ND	Binder 99-100%
371089023	8B	ND	Binder 99-100%
371089024	8C	ND	Binder 99-100%
371089025	9A	ND	Cellulose 1-5% Binder 95-99%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

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Analyzed by Name :





ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Arcadis US Inc.
225 W. Wacker Drive, Suite 2015
Chicago, IL 60606
Phone: (312) 575-3718

Reference:	30227204	Date Received:	06/14/2024
Location:	IDOT WO#33 600 DesPlaines St	Date Analyzed:	06/21/2024
Batch No.:	371089	Date Reported:	06/21/2024
Customer No.:	2530	Turn Around Time:	5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
371089026	9B	ND	Cellulose 1-5% Binder 95-99%
371089027	9C	ND	Cellulose 1-5% Binder 95-99%
371089028	10A	ND	Cellulose 20-25% Binder 75-80%
371089029	10B	ND	Cellulose 20-25% Binder 75-80%
371089030	10C	ND	Cellulose 20-25% Binder 75-80%
371089031	11A	ND	Cellulose 15-20% Binder 80-85%
371089032	11B	ND	Cellulose 15-20% Binder 80-85%
371089033	11C	ND	Cellulose 15-20% Binder 80-85%
371089034	12A	NS	
371089035	12B	NS	
371089036	12C	NS	

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Analyzed by Name :

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Arcadis US Inc.
 225 W. Wacker Drive, Suite 2015
 Chicago, IL 60606
 Phone: (312) 575-3718

Reference:	30227204	Date Received:	06/14/2024
Location:	IDOT WO#33 600 DesPlaines St	Date Analyzed:	06/21/2024
Batch No.:	371089	Date Reported:	06/21/2024
Customer No.:	2530	Turn Around Time:	5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
371089037	13A	ND	Cellulose 1-5% Binder 95-99%
371089038	13B	ND	Cellulose 1-5% Binder 95-99%
371089039	13C	ND	Cellulose 1-5% Binder 95-99%
371089040	14A	ND	Cellulose 1-5% Binder 95-99%
371089041	14B	ND	Cellulose 1-5% Binder 95-99%
371089042	14C	ND	Cellulose 1-5% Binder 95-99%
371089043	15A	ND	Binder 85-90% Glass 10-15%
371089044	15B	ND	Binder 85-90% Glass 10-15%
371089045	15C	ND	Binder 85-90% Glass 10-15%
371089046	16A	ND	Cellulose 20-25% Binder 75-80%

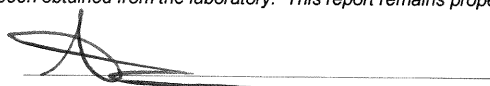
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Analyzed by Name :



Alex Ziauddin / Microscopist

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Method: EPA/600/R-93/116

Arcadis US Inc.
 225 W. Wacker Drive, Suite 2015
 Chicago, IL 60606
 Phone: (312) 575-3718

Reference:	30227204	Date Received:	06/14/2024
Location:	IDOT WO#33 600 DesPlaines St	Date Analyzed:	06/21/2024
Batch No.:	371089	Date Reported:	06/21/2024
Customer No.:	2530	Turn Around Time:	5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
371089047	16B	ND	Cellulose 20-25% Binder 75-80%
371089048	16C	ND	Cellulose 20-25% Binder 75-80%
371089049	17A	NS	
371089050	17B	NS	
371089051	17C	NS	
371089052	18A	NS	
371089053	18B	NS	
371089054	18C	NS	
371089055	19A	ND	Binder 85-90% Glass 10-15%
371089056	19B	ND	Binder 85-90% Glass 10-15%
371089057	19C	ND	Binder 85-90% Glass 10-15%
371089058	20A	ND	Binder 99-100%
371089059	20B	ND	Binder 99-100%
371089060	20C	ND	Binder 99-100%

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Batch No.:	371089	Date Reported:	06/21/2024
Customer No.:	2530	Turn Around Time:	5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
371089061	21A	ND	Cellulose 5-10% Binder 90-95%
371089062	21B	ND	Cellulose 5-10% Binder 90-95%
371089063	21C	ND	Cellulose 5-10% Binder 90-95%
371089064	22A	ND	Cellulose 1-5% Binder 95-99%
371089065	22B	ND	Cellulose 1-5% Binder 95-99%
371089066	22C	ND	Cellulose 1-5% Binder 95-99%
371089067	23A	ND	Cellulose 1-5% Binder 95-99%
371089068	23B	ND	Cellulose 1-5% Binder 95-99%
371089069	23C	ND	Cellulose 1-5% Binder 95-99%
371089070	24A	ND	Cellulose 1-5% Binder 95-99%

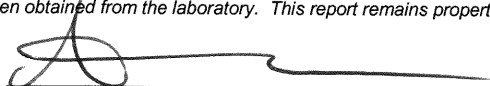
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Location:	IDOT WO#33 600 DesPlaines St	Date Analyzed:	06/21/2024
Batch No.:	371089	Date Reported:	06/21/2024
Customer No.:	2530	Turn Around Time:	5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
371089071	24B	ND	Cellulose 1-5% Binder 95-99%
371089072	24C	ND	Cellulose 1-5% Binder 95-99%

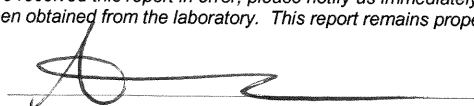
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Analyzed by Name :



Alex Ziauddin / Microscopist



2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: info@thesterlinglab.com

CHAIN OF CUSTODY RECORD

Page: 1 of 1

Client: <u>Arcadis</u>		Turn Around: Immediate: <input type="checkbox"/> 4 Hrs: <input type="checkbox"/> 8 Hrs: <input type="checkbox"/> 24 Hrs: <input type="checkbox"/> 1 Day: <input type="checkbox"/> 2 Days: <input type="checkbox"/> 3 Days: <input type="checkbox"/> 5 Days: <input checked="" type="checkbox"/>			
Street Address: <u>225 W. Wacker Dr. Suite 2015</u>		Date Due:	Time Due: Note: Not all turn around times are available for all analysis.		
City, State, Zip: <u>Chicago, IL, 60640</u>		OFFICE USE ONLY BELOW:		Relinquished by: <u>Anthony Spalla</u> Date/Time: <u>06/14/2024</u>	
Phone: <u>630-803-5905</u>				Received by: <u>[Signature]</u> Date/Time: <u>6/14/24 11:21 96 50</u>	
Fax: <u>[Redacted]</u>		Batch No.: <u>371089</u>		Relinquished by: _____ Date/Time: _____	
e-mail/Alt. Fax: <u>[Redacted]</u>		Samples Acceptable: Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>		Received by: _____ Date/Time: _____	
Project Number: <u>30227204</u>		Checked by (Initial/Date): <u>AE 6/20/24</u>		Relinquished by: _____ Date/Time: _____	
Project Name: <u>IDOT W04#33</u>		Comments: _____		Received by: _____ Date/Time: _____	
Project Location: <u>600 Desplaines St.</u>		_____		_____	
Project Manager: <u>Brendan O'Kealy</u>		_____		_____	
P.O. Number: <u>[Redacted]</u>		_____		_____	

Client Sample Number/Description	Date Taken	Time		Rate (lpm)	Volume (Liters)	Area Wiped (ft ²)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water	Other:
		On	Off														
<u>HA-(1-24)</u>	<u>06/11/24</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>		<input checked="" type="checkbox"/>								

Comments: Please email results to Brendan.O'Kealy@arcadis.com.

State of WA#33
 Address 600 Vespaire St. Solist, IC

Inspector AS, PH
 Company Arcaid

371089

HA # and Sample ID (Ex. 1-1, 1-2, 1-3)	HA Material Description	Color	Texture	Material Location(s) Please Identify Each Floor or Area the Material is Located. (This is Not the Sample Location)	Location (2) (Floor, Wall, Ceiling, etc)	Condition	Approximate Material Quantity	Frictile	Sample Location	Photo #
1A	Gypsum Board	White	R	Throughout except living room and both stairwells	Walls Ceilings Floor	G	3,000SF	N	Kitchen	1
1B	Walls and								Kitchen	
1C	Ceilings								Bedroom 2	
2A	Joint compound	White	R	↓	Walls, Ceilings	G	3,000SF	Y	Foyer	2
2B	assoc. w/								Laundry	
2C	HA-1								Foyer	
3A	Tape assoc.	Beige	S	↓	Walls, Ceiling	G	3,000SF	N	↓	3
3B	w/ HA-1									
3C										
4A	12x12	Beige	S	Throughout 1st Floor except Kitchen	Floor	G	570SF	N	Living Room	4
4B	Ceramic								Bedroom 1	
4C	floor tile								Bedroom 1	
5A	Adhesive	White	R	↓	Floor	G	570SF	N	↓	5
5B	assoc. w/									
5C	HA-4									
6A	Grout assoc.	Dark Gray	R	↓	Floor	G	570SF	N	↓	6
6B	w/ HA-4									
6C										

Gypsum board under HA-7 as a floor leveler in Basement.

*Condition: Good (G), Damaged (D), Significantly Damaged (SD) Add a comment on type and extent of damage.

HA # and Sample ID (Ex. 1-1, 1-2, 1-3)	HA Material Description	Color	Texture	Material Location(s) Please Identify Each Room or Area the Material is Located. (This is Not the Sample Location)	Location (2) (Floor, Wall, Ceiling, etc)	Condition	Approximate Material Quantity	Finish	Sample Location	Photo #
7A	12x12	light	S	1st Floor Kitchen					Kitchen	7
7B	Ceramic	Red		Basement laundry	Floor	G	312sf	N	Foyer	
7C	Floor tile			Bathroom and Foyer					Foyer	
8A	Adhesive	Gray	R	↓					↓	8
8B	assoc. w/				Floor	G	312sf	N		
8C	HA-7									
9A	Grout assoc.	Black	R	↓					↓	9
9B	With HA-7				Floor	G	312sf	N		
9C										
10A	Leveling	Gray	R	Throughout 1st Floor					Living Room	10
10B	Compound under				Floor	G	756sf	N		
10C	HA-5									
11A	Yellow Glue	Yellow	R	Throughout 2nd Floor					Bedroom 2	11
11B	under Wood				Floor	G	500sf	N		
11C	laminate flooring									
12A	Wood laminate	Brown	S	↓					↓	12
12B	flooring				Floor	G	500sf	N		
12C										

Site Notes

NO HA-12. Wood Material

37089

HA # and Sample ID (Ex. 1-1, 1-2, 1-3)	HA Material Description	Color	Texture	Material Location(s) Please Identify Each Room or Area the Material Is Located. (This is Not The Sample Location)	Location (2) (Floor, Wall, Ceiling, etc)	Condition	Approximate Material Quantity	Friable	Sample Location	Photo #
13A 13B 13C	Gray Plank Flooring	Gray	S	Kitchen	Floor	G	132SF	N	Kitchen ↓	13
14A 14B 14C	Concrete Foundation	Gray	R	Basement	Floor	G	750SF	N	Utility Room ↓	14
15A 15B 15C	Asphalt Shingles	Black	R	Roof of House and Bump out on North Side	Roof	G	925SF	N	Bump out of Roof ↓	15
16A 16B 16C	Felt layer under HA-19	Black	R	↓	Roof	G	925SF	N	↓	16
17A 17B 17C	Chimney Sealant	Black	R	Roof	Chimney on Roof	G	8LF	N	Assumed not Sampled	17
18A 18B 18C	Mortar Patch under HA-23	Gray	R	Southside of House	Wall	G	225SF	N		18

Site Notes

NO HA-18.

HA # and Sample ID (Ex. 1-1, 1-2, 1-3)	HA Material Description	Color	Texture	Material Location(s) Please Identify Each Room or Area the Material is Located. (This is Not The Sample Location)	Location (2) (Floor, Wall, Ceiling, etc)	Condition	Approximate Material Quantity	Friable	Sample Location	Photo #
19A 19B 19C	2 nd layer Asphalt shingle under HA-15	Red/Black	R	Roof of House and Bumpout on North	Roof	G	925sf	N	Bump out of roof ↓	19
20A 20B 20C	Skim coat Plaster	White	R	Dining Room Living Both Room, Stairwells	Ceilings Walls	G	650sf	N	Dining Room Dining Room Stair well	20
21A 21B 21C	Base Coat Plaster	Gray	R	Living Both Room, Stairwells Dining Room East West	Ceilings Walls	G	650sf	N	↓	21
22A 22B 22C	Mortar assoc. Stone	Gray	R	North Side of House	Ext. Wall	G	270sf	N	Ext. East Wall of House ↓	22
23A 23B 23C	Trowled on Mortar assoc.	Gray	R	South North Side of House	Ext. Wall	G	225sf	N	Ext. South Wall of House ↓	23
24A 24B 24C	Joint compound assoc. with HA-1	Beige White	R	Throughout except living room and both stairwells	Ceilings Walls	G	3,000sf	Y	Foyer Laundry Foyer	24

Site Notes

HA-24 stuck to HA-2. Could not separate.

Appendix D

Photo Log



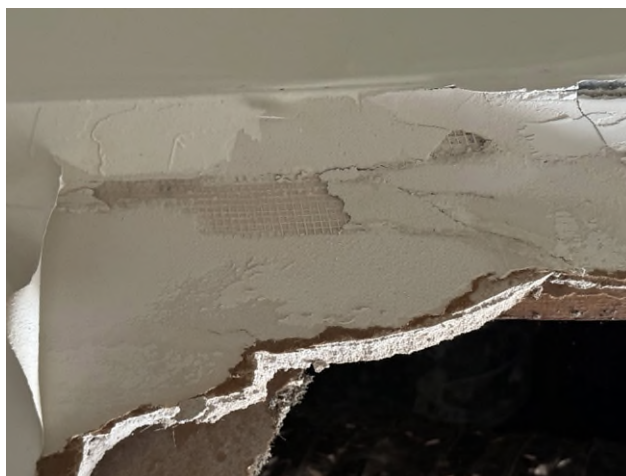
View of the House



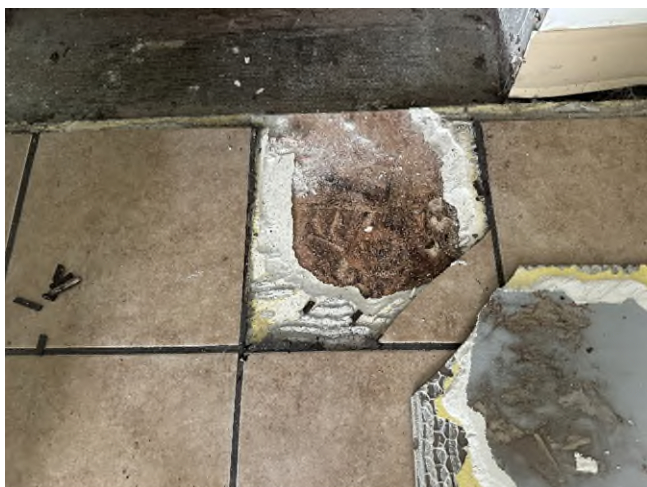
HA-1: White Gypsum Board



HA-2: White Joint Compound associated with HA-1



HA-3: Beige Drywall Tape associated with HA-1



HA-4: Beige 12" x 12" Ceramic Tile
HA-5: White Adhesive associated with HA-4
HA-6: Dark Gray Grout associated with HA-4



HA-7: Tan with Red Tint 12" x 12" Ceramic Tile;
HA-8: Gray Adhesive associated with HA-7
HA-9: Black Grout associated with HA-7



HA-10: Gray Leveling Compound under HA-5



HA-11: Yellow Glue under Wood Laminate Flooring

No photo available



HA-14: Gray Concrete Foundation

HA-13: Gray Plank Flooring



HA-15: Black Asphalt Shingles
HA-16: Black Felt Layer under HA-15



HA-17: Black Sealant



HA-19: Red/Black Asphalt Shingle under HA-15



**HA-20: White Skimcoat Plaster
HA-21: Gray Base Coat Plaster**



HA-22: Gray Mortar associated with Stone



HA-23: Gray Troweled on Mortar



HA-24: Beige Joint Compound associated with HA-1

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