

April 4, 2017

SUBJECT: Flora Airport Flora, Illinois Clay County Illinois Project Number: FOA-4526 SBG Project Number: 3-17-SBGP-99/105 Contract No. FL032 Item No. 11A, April 28, 2017 Letting Addendum A

NOTICE TO PROSPECTIVE BIDDERS

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

Reason for Addendum:

Addition of "Appendix A – Asbestos Inspection Report" of buildings to be removed to Special Provisions.

To All Plan Holders:

Plan Revisions:

- None

Special Provisions Revisions

- Add "Appendix A – Asbestos Inspection Report"

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Questions on this addendum may be directed to Robert Waller of Hanson Professional Services Inc. at 217.747.9237.

Asbestos Inspection Report

For

Farmhouse, Garage & 3 Outbuildings 11539 Old Highway 50 Flora, IL 62839



Prepared By



KAM Services, Inc. 601 Broadway Ave., Suite 2 P.O. Box 1515 Mattoon, Illinois 61938 (217) 235-9537

Prepared For

Mr. Kyle Schweizer, P.E. Hanson Professional Services, Inc. 1515 S. Sixth Street Springfield, IL 62703

January 20, 2017

TABLE OF CONTENTS

Introduction 1
Narrative Description
General Comments
Scope of Work
Identification of Suspect Materials
Results of Laboratory Analysis 5-6
Recommendations
Appendix A - Laboratory Analysis
Appendix B - Inspector's & Management Planner's Licenses
Appendix C - Laboratory Accreditation

ASBESTOS INSPECTION REPORT FARMHOUSE, GARAGE & 3 OUTBUILDINGS 11539 OLD HIGHWAY 50 FLORA, IL 62839

Introduction

KAM Services, Inc. (KAM) was retained by Kyle Schweizer, P.E. with Hanson Professional Services, Inc. to conduct an asbestos inspection of the Farmhouse, Garage and 3 Outbuildings located at 11539 Old Highway 50 in Flora, Illinois. On January 20, 2017, KAM performed an asbestos inspection and sampling the Farmhouse, Garage and 3 Outbuildings. The primary purpose of the asbestos inspection was to identify asbestos containing materials (ACM) prior to the planned demolition of the structures. The asbestos inspection was performed by Mark E. Mitchell, IDPH License #100-00360 (See Appendix B for credentials).

An asbestos survey is required by the United States Environmental Protection Agency (USEPA) to maintain compliance with the National Emission Standards for Hazardous Air Pollutants (NESHAP). As of November 20, 1990, the building owner/operator is required to have completed an asbestos survey prior to renovation or demolition. Renovation means altering a facility or one or more facility components in any way or including the stripping or removal of a regulated asbestos containing material (RACM) from a facility component. Demolition means the wrecking or taking out of any load-supporting structural member of a facility together with any related handling with operations or the intentional burning of any facility. An asbestos-containing material (ACM), is defined by the Asbestos NESHAP, as any material containing greater than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM).

Narrative Description

It is estimated that the farmhouse was constructed around 1930 and is approximately 1,280 square feet. The building consists of a single floor. The predominate construction type of the house being wood frame construction. The exterior of the buildings is vinyl siding installed over wood siding and it has a pitched asphalt shingle roof. The building was previously heated by gas stoves but most recently a gas forced air furnace located in the attic. The house was cooled by central air system. The domestic hot water is provided by a gas hot water located in a utility closet. The hot and cold water piping was insulated with fiberglass or foam insulation.

It is estimated that the garage was constructed around 1970 and is approximately 960 square feet. The building consists of a single floor. The predominate construction type of the garage being wood frame construction. The exterior of the buildings is metal siding and it has a pitched metal roof. The outbuildings was never heated or cooled.

The three outbuildings include a shed (bldg. 1), shed (bldg. 2) and shed (bldg. 3). It is estimated that the east shed 1 was constructed around 1930 and is approximately 915 square feet, the north shed 2 around 1930 and is 430 square feet, and the west shed around 1940 and is 720 square feet. All building consists of a single floor and for all the predominate construction type being wood frame construction. The exterior of the all the sheds are wood siding, however the shed 3 has asphalt shingle siding. Shed 1 has a pitched asphalt shingle, asphalt roll roofing and tin roofs. Shed 2 has a pitched tin roof while shed 3 has a pitched asphalt shingle roof. None of the outbuildings were ever heated or cooled with the exception of shed 3 which had a wood stove.

General Comments

The asbestos survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by experienced and knowledgeable professionals who are appropriately licensed and trained to perform asbestos building inspections. KAM used due diligence in inspecting the building and sampling suspect ACM's. The inspection did not include the demolition or dismantling of walls in order to inspect these types of inaccessible areas. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the building. The information contained in this report is relevant to the date on which this survey was performed, and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by the Owner for specific application to their project. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or if remediation is deemed necessary. KAM Services, Inc. does not 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.

Scope of Work

Inspection and sampling procedures were performed in general accordance with the guidelines published by the USEPA in Title 40, Code of Federal Regulations (CFR), Part 61, Subpart M, November 20, 1990, as amended, the Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763 Subpart E, as well as guidelines published by OSHA Standard 29 CFR 1910.1001 and 29 CFR 1926.1101.

The inspection consisted of three major activities: visual inspection, sampling, and reporting. An inspector accredited by the USEPA and licensed by the IDPH performed the asbestos building inspection. An initial building walkthrough was conducted to determine the presence of suspect materials that were accessible or could be exposed through minimal hand demolition. The inspector determined areas of the suspect materials that were visually similar in color, texture, general appearance, and which appeared to have been installed at the same time. Such materials are termed "homogeneous areas" by the USEPA.

Following the USEPA inspection protocol, each identified suspect homogeneous area was given one of the following USEPA designations:

Surfacing Materials - materials sprayed or troweled to building members. Thermal System Insulation - materials generally applied to various mechanical systems. Miscellaneous Materials - any materials which do not fit either of the above designations.

Following the preliminary walkthrough, the inspector collected the appropriate number of samples from each homogeneous area in accordance with approved regulatory guidelines based on the type and quantity of each material. Samples were collected using a homogeneous area designation and a sequential numbering scheme (i.e., the second sample taken from the ceiling tile was identified as MCA-2). The SACM's were misted with amended water to prevent a fiber release, carefully cut with a utility knife or coring tool and placed in a sealed "whirl-pak" plastic bag.

The forty-two (42) bulk samples that were collected on 01/20/2017, were shipped under strict chain of custody protocol to EMSL Analytical, Inc. in Indianapolis, Indiana for Polarized Light Microscopy (PLM) analysis with dispersion staining methods. PLM analysis is described by the interim method of the determination of asbestos in bulk insulation, Federal Register, Volume 47, No. 103, May 27, 1982. This is a standard method of analysis in optical mineralogy and the currently specified method for the determination of asbestos in bulk samples in Appendix A, Subpart F, 40 CFR Part 763, Section 1. A suspect material is immersed in a solution of a known refractive index and subjected to illumination by polarized light. The characteristic color is displayed which enables mineral identification.

It should be noted that some ACM's might not be accurately identified and/or quantified by PLM. As an example, the original fabrication of vinyl floor tiles routinely involved milling of asbestos fibers to extremely small sizes. Consequently, these fibers may go undetected under the standard polarized light microscopy method. Transmission Electron Microscopy (TEM) would be required for a more definitive analysis of these types of materials.

Identification of Suspect Materials

The following suspect ACM's were identified during the inspection.

Homogeneous Area	Material Description	Samples Collected	Lab Results
House			
H-SPA/A	Hard Plaster (Finish Coat)	3	None Detected

Farmhouse, Garage & 3 Outbuildings

Homogeneous Area	Material Description	Samples Collected	Lab Results		
H-SPA/B	Hard Plaster (Base Coat)	3	None Detected		
H-MCA	1'x1' Ceiling Tile	2	None Detected		
H-MFA/A	9"x9" Floor Tile	2	2-3% Chrysotile		
H-MFA/B	9"x9" Floor Tile Mastic	2	2% Chrysotile		
H-MFB/A	Linoleum	2	2% Chrysotile		
H-MFB/B	Linoleum Backing	2	None Detected		
H-MFC/A	Sheet Vinyl	2	None Detected		
H0-MFC/B	Sheet Vinyl Mastic	2	None Detected		
H-MMA	Attic Insulation	2	None Detected		
H-MMB	Window Caulking	2	None Detected		
H-MMC	Asphalt Shingle Roofing	2	None Detected		
H-MMD	Roof Cement	1	2% Chrysotile		
Garage					
No Suspect Asbesto identified during the	os Containing Materials (ACBM's) were				
Shed (Bldg. 1)					
B1-MMA	Asphalt Shingle Roofing	2	None Detected		
B1-MMB	Asphalt Roll Roofing	2	None Detected		
Shed (Bldg. 2)					
No Suspect Asbesto identified during the	os Containing Materials (ACBM's) were				
Shed (Bldg. 3)					
B3-MMA/A	Asphalt Shingle Roofing	2	None Detected		
B3-MMA/B	Asphalt Shingle Mastic	1	None Detected		
B3-MMA/C	Asphalt Shingle Felt	1	None Detected		

Homogeneous Area	Material Description	Samples Collected	Lab Results
B3-MMB	Asphalt Shingle Siding	2	None Detected
B3-MMC	Window Glazing Compound	2	None Detected
B3-MMD	Window/Door Caulking	2	<1% Chrysotile
B3-MME	Roof Cement	1	2% Chrysotile
	Total Samples Collected	42	

- 1) Composite samples were taken of the plaster, floor tile and mastic, sheet vinyl and mastic, and roofing.
- 2) Sample appearance in the field may vary from laboratory appearance.

Results of Laboratory Analysis

Sampling results from the House indicate that four (4) sampled materials are considered ACM's by the USEPA, while the Shed (Bldg. 3) has one (1) material that is ACM. Please refer to (Appendix A - Laboratory Analysis) for further detail. When sampling results indicate or assume that a material is an ACM, the material is categorized as follows:

Asbestos-Containing Material (ACM) - is any material containing more than one percent asbestos as determined by USEPA-approved methods.

Regulated Asbestos-Containing Material (RACM) - any of the following:

- 1. Friable asbestos material is any material containing more than one percent asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.
- 2. Category I non-friable ACM that has become friable or that will be or has been subjected to sanding, grinding, cutting or abrading.
- 3. Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or demolition operations.

Category I Non-friable Asbestos-Containing Material - asbestos-containing packings, gaskets, resilient floor coverings and asphalt roofing.

Category II Non-friable Asbestos-Containing Material - any material, excluding Category I non-friable ACM's, that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

The following table identifies the ACM's by homogeneous area, material description, USEPA Category, location and estimated quantity.

Farmhouse, Garage & 3 Outbuildings

Homo. Area	Material Description	USEPA Category	Location	Estimated Quantity
House				
H-MFA/A H-MFA/B	9"x9" Floor Tile & Mastic	Category I Non-Friable	Kitchen & Bathroom.	195 s.f.
H-MFB	Linoleum	RACM	Family Room, NW Bedroom, SW Bedroom, Hallway	535 s.f.
H-MMD	Roof Cement	Category I Non-Friable	Roof at (2) Chimneys	4 s.f.
Shed (Bldg. 3)				
H-MME	Roof Cement	Category I Non-Friable	Roof at Chimney	2 s.f.

- 1) Quantities are approximate and should be field verified.
- 2) Laboratory differentiated layers within the plaster, floor tile and mastic, sheet vinyl and mastic, and roofing.
- 3) Floor tile has been installed on a wood underlayment.
- 4) Carpet has been installed over the linoleum at all locations.

Recommendations

 Notification - In accordance with 40 CFR 61.145(b), building owners are required to submit a 10-day notification prior to renovation and/or demolition projects, regardless of the presence of RACM's, to the Illinois Environmental Protection Agency (IEPA). Notification must be made on forms approved by IEPA. The Illinois Commercial & Public Building Act requires building owners to submit a 2-day notification prior to friable asbestos abatement projects ranging in size from 3 square feet/3 linear feet to 160 square feet/260 linear feet.

It should be noted that some municipalities have permit fees or other regulations regarding asbestos abatement and/or demolition activities. A person should check with local authorities prior to demolition/renovation activities.

• **RACMs** - A total of one (1) RACM's in the House were identified during the asbestos survey. RACM's must be properly removed by a licensed asbestos abatement contractor prior to demolition and prior to renovation if the materials are to be disturbed. In the event any additional RACM's are discovered in the demolition debris, they must be properly removed and disposed of by a licensed asbestos abatement contractor in accordance with applicable regulations.

According to USEPA Title 40 CFR Part 61.145(c)(iii): An RACM need not be removed before demolition if it was not accessible for testing and was, therefore, not discovered until after demolition began and, as a result of the demolition, the

material cannot be safely removed. If not removed for safety reasons, the exposed RACM and any asbestos contaminated debris must be treated as asbestos containing waste and adequately wet at all times until properly disposed at a landfill approved to accept asbestos containing waste.

Category I Non-friable ACM's - A total of one (1) Category I Non-Friable ACM's in the House and one (1) in the Shed (bldg. 3) were identified during the asbestos survey. Generally, these materials do not have to be removed prior to building renovation and/or demolition, unless the materials are made friable by those operations. In addition, materials which are adhered to substrates not intended for recycling (e.g., wood) need not be removed prior to building demolition and can be taken to an approved landfill as general construction debris. Operations such as power chipping, grinding, abrading, cutting or drilling could make the materials friable. If these operations are likely to occur, the materials must be properly removed. If the materials are attached to a subbase such as concrete/masonry and/or metal products that are scheduled to be recycled, the materials must be properly removed prior to recycling. At the present time, the EPA does not allow either Category I or II non-friable demolition debris to go to any recycling facility that will sand, grind, cut or abrade it or otherwise turn it into RACM waste. Recycling facilities which cause non-RACM waste to become RACM waste are subject to the provisions of the asbestos NESHAP regulation.

Intact removal may be performed by non-licensed personnel if the employer of these personnel is prepared to meet applicable OSHA requirements. Gross removal must be performed by an Illinois Department of Public Health (IDPH) licensed contractor using licensed supervisors and workers.

The IEPA prefers the use of rubber-tread track-hoes for demolition procedures which involve driving on or parking over any Category I non-friable materials. Adequate water must also be utilized at the site to minimize fugitive emissions during demolition.

Category II Non-friable ACM's - No Category II Non-Friable ACM's were identified during the asbestos survey. These materials must be properly removed prior to demolition since it likely to render the material friable RACM. The materials are required to be removed prior to renovation if the materials are to be disturbed.

Intact removal may be performed by non-licensed personnel if the employer of these personnel is prepared to meet applicable OSHA requirements. Gross removal must be performed by an Illinois Department of Public Health (IDPH) licensed contractor using licensed supervisors and workers in accordance with applicable regulations as administered in the State of Illinois.

In the event additional Category II Non-Friable ACM's are discovered in the demolition debris, they must be properly removed and disposed of by a licensed asbestos abatement contractor in accordance with applicable regulations as administered in the State of Illinois.

- Work Procedures (In the event ACM's are identified in the demolition and/or renovation debris). Removal of ACM's shall be conducted in accordance with NESHAP regulations 40 CFR 61, Subpart M; OSHA regulations 29 CFR 1926.1101 and Illinois Commercial & Public Building Act, Subpart D. Asbestos containing building materials (ACBM's) may be temporarily stored at the work area until completion of the abatement project. Temporarily stored ACBM's shall meet the waste storage requirements of NESHAP regulations 40 CFR 61, Subpart M. At the conclusion of the abatement project, all temporarily stored ACBM's shall be removed from the work area and transported to a regulated landfill location approved for disposal of asbestos-containing waste.
- Intentional Burning As stated in the November 1990 asbestos NESHAP revision CFR (see 61.145(c)(10)): If a facility is demolished by intentional burning, all RACM, including Category I and Category II non-friable ACM, must be removed in accordance with the NESHAP before burning. Abandoned buildings utilized by fire departments for practice exercises involving burning are subject to this requirement. A permit must be obtained from all applicable federal, state and local agencies prior to commencing with the open burning.
- Clearance Air Monitoring (projects greater than 3 square feet/3 linear feet) -After the completion of the final clean and when all surfaces in the work area are dry, the contractor, the building owner or the building owner's designee shall inspect the work for visible residue. If the area is clear of residue, the contractor, the building owner or the building owner's designee shall notify an air sampling professional that the work area is ready for clearance air monitoring. Air sampling shall be conducted by an air sampling professional. The air sampling professional is allowed to use Phase Contrast Microscopy (PCM) for clearance air monitoring in public and commercial buildings in lieu of Transmission Electron Microscopy (TEM).

Required Samples:

A minimum of two samples shall be collected for areas up to 1,000 sq. ft.

A minimum of five samples shall be collected for areas larger than 1,000 sq. ft. but not exceeding 50,000 sq. ft.

One additional sample shall be collected for every 10,000 sq. ft. exceeding 50,000 sq. ft.

Each sample result shall be less than or equal to 0.01 f/cc. If the air sampling results indicate a concentration of airborne asbestos fibers in excess of the clearance criteria, the contractor shall not be released until the contained area meets clearance criteria.

The building owner shall give a copy of the test results to the contractor and retain a copy for its records for three years.

• Asbestos Competent Person - In Section 17 of the IEPA notification form, the owner/operator must certify that at least one representative, trained in the provisions of 40 CFR 61 Subpart M (i.e., NESHAP-Asbestos), is on-site during demolition. The representative must carry on his/her person evidence that such training has been completed.

APPENDIX A

LABORATORY ANALYSIS

EMSL Analytical, Inc. Customer ID: KAM62 2001 East 52nd St. Indianapolis, IN 46205 MSI **Customer PO:** Tel/Fax: (317) 803-2997 / (317) 803-3047 Project ID: http://www.EMSL.com / indianapolislab@emsl.com Attention: Mark Mitchell Phone: (217) 235-0298 KAM Services, Inc. Fax: (217) 235-0299 601 Broadway Ave, Suite 2 Received Date: 01/24/2017 10:15 AM PO Box 1515 Analysis Date: 01/26/2017 Mattoon, IL 61938 **Collected Date:** Project: Farmhouse & Outbuilding, 11539 Old Highway 50, Flora, IL 62839 / 17-1003

EMSL Order: 161701395

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
H-SPA-1-Finish Coat	Hard Plaster / Utility Closet	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
161701395-0001		Homogeneous			
Inseparable paint / coating la	ayer included in analysis				
H-SPA-1-Base Coat	Hard Plaster / Utility Closet	Gray Non-Fibrous Homogeneous	<1% Hair	20% Quartz 80% Non-fibrous (Other)	None Detected
U CDA 2 Finish Cost	Llard Diastar / Kitaban	White		100% Non fibrous (Other)	Nono Detected
161701395-0002		Non-Fibrous Homogeneous		100 % Non-hibrous (Other)	None Delected
Inseparable paint / coating la	ayer included in analysis				
H-SPA-2-Base Coat	Hard Plaster / Kitchen	Gray Non-Fibrous	<1% Hair	20% Quartz 80% Non-fibrous (Other)	None Detected
161701395-0002A		Homogeneous			
H-SPA-3-Finish Coat	Hard Plaster / Living Room	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
161701395-0003 Inseparable paint / coating la	aver included in analysis	Homogeneous			
	Hard Diastar / Living	Crov		20% Questa	None Detected
H-SPA-3-Base Coat	Room	Gray Non-Fibrous		20% Quartz 80% Non-fibrous (Other)	None Detected
161701395-0003A		Homogeneous			
H-MCA-1	1'x1' Ceiling Tile / Kitchen	Tan/White Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
161701395-0004		Homogeneous			
H-MCA-2	1'x1' Ceiling Tile / Kitchen	Brown/White Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
161701395-0005		Homogeneous			
H-MFA-1-Floor Tile	9"X9" Floor Tile & Mastic / Kitchen	Gray Non-Fibrous		97% Non-fibrous (Other)	3% Chrysotile
		Black			
H-MFA-1-Mastic	Mastic / Kitchen	Black Non-Fibrous Homogeneous		98% Non-fidrous (Other)	2% Chrysotile
	9"X9" Floor Tile &	Brown/Gray		98% Non-fibrous (Other)	2% Chrysotile
161701395-0007	Mastic / Bathroom	Non-Fibrous Homogeneous			
H-MFA-2-Mastic	9"X9" Floor Tile & Mastic / Bathroom	Black Non-Fibrous		98% Non-fibrous (Other)	2% Chrysotile
161701395-0007A		Homogeneous			
H-MFB-1-Flooring	Linoleum & Mastic / Family Room	Tan Non-Fibrous		98% Non-fibrous (Other)	2% Chrysotile
161701395-0008		Homogeneous			
H-MFB-1-Backing	Linoleum & Mastic / Family Room	Black Fibrous	60% Cellulose	40% Non-fibrous (Other)	None Detected
161701395-0008A		Homogeneous			
H-MFB-2-Flooring	Linoleum & Mastic / Southwest Bedroom	Blue Non-Fibrous		98% Non-fibrous (Other)	2% Chrysotile
161701395-0009		Homogeneous			



Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

SampleDescriptionAppearance% Pitrous% Non-Fibrous% Non-Fibrous% Non-EncostH-MFE2-EnclosingLinoueum K Mather / FibrousGit & Callulose40% Non-fibrous (Other)None DetectedH-MFE2-F-HooringSheet Wryi & Matter / FibrousGit & Science65% Non-fibrous (Other)None DetectedH-MFE2-F-HooringSheet Wryi & Matter / Non-FibrousGit & Science100% Non-fibrous (Other)None DetectedH-MFE2-F-MatterSheet Wryi & Matter / Non-FibrousOrganization100% Non-fibrous (Other)None DetectedH-MFE2-F-MatterSheet Wryi & Matter / Non-FibrousOrganization25% Callulose75% Non-fibrous (Other)None DetectedH-MFE2-F-MatterSheet Wryi & Matter / Non-FibrousOrganization100% Non-fibrous (Other)None DetectedH-MFE2-F-MatterHotel ScienceSheet Wryi & Matter / Non-FibrousNone-FibrousNone-FibrousH-MFE2-FibroingSheet Wryi & Matter / Non-FibrousYilow95% Callus100% Non-fibrous (Other)None DetectedH-MMA-1Atte Inaulation / Atte Non-FibrousYilow95% Callus2% Non-fibrous (Other)None DetectedH-MMA-2Atte Inaulation / Atte Non-FibrousYilow95% Callus100% Non-fibrous (Other)None DetectedH-MMA-1Atte Inaulation / Atte Non-FibrousYilow95% Callus2% Non-fibrous (Other)None DetectedH-MMA-2Atte Inaulation / Atte Non-FibrousYilow95% Callus2% Non-fibrous (Other)None Detected<			Non-Asbestos			Asbestos
H.H.F.2Backing Inclume M Metatic Southweight of Second Homogeneous Procession B0% Celuiose Procession 40% Non-fbrous (Other) None Detected H.M.G.1Flooring Sheet Viryi & Mastic Companies Singer Second Procession Singer Second Procession None Detected H.M.G.1Flooring Sheet Viryi & Mastic Companies Yellow Procession Singer Second Procession None Detected H.H.G.2Flooring Sheet Viryi & Mastic Companies Yellow Procession None-Flooring None-Flooring None-Flooring H.H.G.2Flooring Sheet Viryi & Mastic Companies Yellow Procession None-Flooring None-Flooring None-Flooring H.H.G.2Flooring Sheet Viryi & Mastic Companies Yellow Procession None-Flooring None-Flooring None-Flooring H.H.G.2Flooring Sheet Viryi & Mastic Companies Yellow Procession None-Flooring None-Flooring None Detected H.M.A.2 Altic Insulation / Altin Yellow Procession None-Flooring Static None-flooring None Detected H.M.M.2 Mastic Companies None-Flooring Static None-flooring None-Flooring None-Flooring None-Flooring H.M.M.2 Mastic Companies None-Flooring None-Flooring None-Flooring None-Flooring None-Flooring H.M.M.2 <	Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
International State Control Homogeneous HAMPC - FLOORING Sheed Viryl & Mastic Control SDK Cellulose 65% (lass 75% (loss flass (loss flass)) 100% (loss flass) 10% (loss fl	H-MFB-2-Backing	Linoleum & Mastic / Southwest Bedroom	Brown/Black Fibrous	60% Cellulose	40% Non-fibrous (Other)	None Detected
H-HBC-1-Hoaning Sheet Viny is Masic / Gray/Red Sh Glass 5% Glass 5	161701395-0009A		Homogeneous			
Intercontension Heterogeneous HAMC-1. Mastic Non-Farous Non-Farous HAMC-2Stronging Sheet Viryl & Mastic / Kitchen Gray/Red 25% Callulose 75% Non-fibrous (Other) None Detected HAMC-2Stronging Sheet Viryl & Mastic / Kitchen Gray/Red 25% Callulose 75% Non-fibrous (Other) None Detected HAMC-2Stronging Sheet Viryl & Mastic / Kitchen Homogeneous 100% Non-fibrous (Other) None Detected HAMC-2Mastic Strongeneous 15% Non-fibrous (Other) None Detected HAMA-1 Attic Insulation / Attic Yellow 96% Class 25% Non-fibrous (Other) None Detected 1670738-0072 Homogeneous Homogeneous None-Farous None Detected 1670738-0072 Homogeneous 100% Non-fibrous (Other) None Detected 1670738-0072 Homogeneous 100% Non-fibrous (Other) None Detected 1670738-0072 Exterior Outside Non-Farous 100% Non-fibrous (Other) None Detected 1670738-0072 Kitchen Homogeneous 100% Non-fibrous (Other) None Detected <td>H-MFC-1-Flooring</td> <td>Sheet Vinyl & Mastic / Kitchen</td> <td>Gray/Red Fibrous</td> <td>30% Cellulose 5% Glass</td> <td>65% Non-fibrous (Other)</td> <td>None Detected</td>	H-MFC-1-Flooring	Sheet Vinyl & Mastic / Kitchen	Gray/Red Fibrous	30% Cellulose 5% Glass	65% Non-fibrous (Other)	None Detected
H-HG C-1-Mastic Sheet Viny I & Mastic / Yellow 100% Non-fbrous (Other) None Detected Kitchen Non-Forus Homogenous Homogenous None Detected H-HG C-2-Flooring Sheet Viny I & Mastic / SinyRed / Fibrous 25% Cellulose 75% Non-fibrous (Other) None Detected H-HG C-2-Flooring Sheet Viny I & Mastic / SinyRed / Fibrous Yellow 100% Non-fibrous (Other) None Detected H-HM C-2-Mastic Sheet Viny I & Mastic / SinyRed / Fibrous Yellow 100% Non-fibrous (Other) None Detected H-HM C-2-Mastic Attic insulation / Attic Yellow 98% Glass 1% Non-fibrous (Other) None Detected H-HM A-1 Window Caulding / White Yellow 98% Glass 2% Non-fibrous (Other) None Detected H-HM B-2 Window Caulding / White Yellow 98% Glass 2% Non-fibrous (Other) None Detected H-HM B-2 Window Caulding / White Yellow 100% Non-fibrous (Other) None Detected H-HM B-2 Window Caulding / White Yellow 10% Glass 85% Non-fibrous (Other) None Detected H-HM B-2 Window Ca	161701395-0010		Heterogeneous			
Interview Homogeneous HMFC-2-Flooring Sheet Vinyl & Matsic/ Florous 25%, Calilose 75%, Non-Florous (Other) None Detected H-MFC-2-Flooring Sheet Vinyl & Matsic/ Florous Yellow 100%, Non-Florous (Other) None Detected H-MFC-2-Flooring Sheet Vinyl & Matsic/ Florous Yellow 99%, Glass 1%, Non-Florous (Other) None Detected H-MMA-1 Atic Insulation / Attic Yellow 99%, Glass 1%, Non-Florous (Other) None Detected H-MMA-1 Attic Insulation / Attic Yellow 99%, Glass 2%, Non-Florous (Other) None Detected H-MMA-1 Witic Insulation / Attic Yellow 99%, Glass 2%, Non-Florous (Other) None Detected H-MMB-1 Window Caulking / Exterior Outside Non-Florous 100%, Non-Florous (Other) None Detected H-MMB-2 Window Caulking / Exterior Outside Non-Florous 100%, Non-florous (Other) None Detected #1797398-097 Sold Hetrogeneous 10%, Non-florous (Other) None Detected #14MAC-1 Apphalt Shingle GrayBlack 15% Glass 95% Non-f	H-MFC-1-Mastic	Sheet Vinyl & Mastic / Kitchen	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
H-HC-2-Algoring Sheet Vmyl & Maile/ Kitchen Gray/Red Forous Heterogeneous 25% Cellulose 75% Non-fibrous (Other) None Detected H-MC-2-Alastic Sheet Vmyl & Maile/ Kitchen Vallow 90% Glass 100% Non-fibrous (Other) None Detected H-MC-2-Alastic Sheet Vmyl & Maile/ Kitchen Vallow 90% Glass 1% Non-fibrous (Other) None Detected H-MMA-1 Alfic Insulation / Attic Yulow 90% Glass 2% Non-fibrous (Other) None Detected H-MMA-2 Alfic Insulation / Attic Yulow 90% Glass 2% Non-fibrous (Other) None Detected #6700356007 Homogeneous Homogeneous 100% Non-fibrous (Other) None Detected #6700356007 Winter 100% Non-fibrous (Other) None Detected #6700356007 Asphalt Shingle Gray/Black 10% Glass 50% Non-fibrous (Other) None De	161701395-0010A		Homogeneous			
Participation Prelative control Prelative contro Prelative control <t< td=""><td>H-MFC-2-Flooring</td><td>Sheet Vinyl & Mastic / Kitchen</td><td>Gray/Red Fibrous</td><td>25% Cellulose</td><td>75% Non-fibrous (Other)</td><td>None Detected</td></t<>	H-MFC-2-Flooring	Sheet Vinyl & Mastic / Kitchen	Gray/Red Fibrous	25% Cellulose	75% Non-fibrous (Other)	None Detected
H-MIC-2-Mastic Scheet Viny & Mastel Viny & M			Helelogeneous			
Non-Detected Fibrous Yellow Fibrous 99% Glass 1% Non-fibrous (Other) None Detected 147073956/07 Attic Insulation / Attic Fibrous Yellow 99% Glass 2% Non-fibrous (Other) None Detected 147073956/07 Attic Insulation / Attic Fibrous Yellow 98% Glass 2% Non-fibrous (Other) None Detected 147073956/07 Monte-Fibrous 100% Non-fibrous (Other) None Detected None-Fibrous 147073956/07 Window Caulking / Homogeneous Winte 100% Non-fibrous (Other) None Detected 147073956/07 Southwest Bedroom Monte 100% Non-fibrous (Other) None Detected 157073956/07 Southwest Bedroom Homogeneous 100% Non-fibrous (Other) None Detected 167073956/07 Southwest Bedroom Homogeneous 10% Glass 85% Non-fibrous (Other) None Detected 167073956/07 Side Heterogeneous 10% Glass 80% Non-fibrous (Other) None Detected 167073956/07 Side Heterogeneous 10% Glass 80% Non-fibrous (Other) None Detected 167073956/07 Side	H-MFC-2-Mastic	Sheet Vinyl & Mastic / Kitchen	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
H-MMA-1 Alle Insulation Alle Yellow 97% Glass 1.5 Non-Fibrous (Other) None Detected Fibrous Homogeneous H-MMA-2 Attic Insulation / Attic Memory 98% Glass 2% Non-fibrous (Other) None Detected Mon-Fibrous Homogeneous H-MMA-1 Window Cauking / White Non-Fibrous U00% Non-fibrous (Other) None Detected Exterior Outside Non-Fibrous Sector Outside Non-Fibrous Sector Outside Non-Fibrous (Other) None Detected Fibrous Homogeneous H-MMA-2 Window Cauking / White Non-Fibrous Sector Outside Non-Fibrous Sector Outside Non-Fibrous Sector Outside Non-Fibrous Sector Outside Sector Outside Sector Outside Fibrous Homogeneous H-MMC-1 Asphalt Shingle Gray/Black 15% Glass 86% Non-fibrous (Other) None Detected Fibrous Sector Outside Sector Non-Fibrous Sector S		Attic Inculation / Attic	Vallau	00% 01	10/ Nor Shrows (Other)	Nexe Detected
HAMA-2 Attic Insulation / Attic Yellow Non-Fibrous 98% Glass 2% Non-fibrous (Other) None Detected #1701386-0013 Window Cauking / Exterior Outside Window Cauking / HAMB-1 Window Cauking / Exterior Outside Window Cauking / HAMB-2 Non-Fibrous 100% Non-fibrous (Other) None Detected ##707386-0016 Southwest Bedroom Horogeneous 15% Glass 90% Non-fibrous (Other) None Detected ##707386-0016 Side Fibrous 10% Glass 90% Non-fibrous (Other) None Detected ##707386-0017 Side Gray/Black Heterogeneous 10% Glass 90% Non-fibrous (Other) None Detected ##707386-0018 Horogeneous Horogeneous 96% Non-fibrous (Other) None Detected ##707386-0018 Horogeneous Horogeneous 96% Non-fibrous (Other) None Detected ##707386-0018 Mint	H-WIWA-1	Attic Insulation / Attic	Fibrous Homogeneous	99% Glass	1% Non-fibrous (Other)	None Detected
THY MILP 2 Auto Histolication / Auto Non-Tibrous Soft Glass 2 An NOn-Histolication (None) Non-Tibrous 19773395-0013 Homogeneous Homogeneous 100% Non-fibrous (Other) None Detected 197737395-0014 Kitchen Homogeneous 100% Non-fibrous (Other) None Detected 197737395-0015 Kitchen Homogeneous 100% Non-fibrous (Other) None Detected 197737395-0015 Southwest Bedroom Homogeneous 10% Glass 85% Non-fibrous (Other) None Detected 197737395-0015 Southwest Bedroom Homogeneous 10% Glass 90% Non-fibrous (Other) None Detected 19773735-0015 Southwest Bedroom Homogeneous 10% Glass 90% Non-fibrous (Other) None Detected 19773735-0016 Roofing / Roof Vest Fibrous 10% Glass 90% Non-fibrous (Other) None Detected 19773735-0017 Side Heterogeneous 96% Non-fibrous (Other) None Detected 19773735-0017 Roofing / Roof Vest Fibrous 96% Non-fibrous (Other) None Detected 19773735-0017 Side White/Black/Green 20% Glass 80% Non-fibrous (Other) None Det		Attic Insulation / Attic	Vellow	08% Class	2% Non fibrous (Other)	None Detected
H-MMB-1 Window Caulking / Exterior Outside Non-Fibrous (Other) Non-Fibrous (Other) None Detected Non-Fibrous (Other) None Detected Non-Fibrous None Detected Non-Fibrous (Other) None Detected Non-Fibrous Southwest Bedroom Homogeneous None Detected Roofing / Roof East Fibrous Side Heterogeneous Side Non-Fibrous (Other) None Detected Roofing / Roof East Fibrous Heterogeneous Side Non-Fibrous (Other) None Detected Roofing / Roof Case Side Non-Fibrous (Other) None Detected Roofing / Roof Case Side Non-Fibrous (Other) None Detected Roofing / Roof Case Side Non-Fibrous (Other) None Detected Roofing / Roof Case Side Non-Fibrous (Other) None Detected Roofing / Roof Case Side Non-Fibrous (Other) None Detected Roofing / Roof Case Side Non-Fibrous (Other) None Detected Roofing / Roof Veet Fibrous Non-Fibrous (Other) None Detected Roofing / Roof Veet Fibrous Non-Fibrous (Other) None Detected Roofing / Roof Veet Fibrous Non-Fibrous (Other) None Detected Roofing / Roof Veet Fibrous Non-Fibrous (Other) None Detected Fibrous Non-Fibrous (Other) None Detected Roofing / Roof Veet Fibrous Non-Fibrous (Other) None Detected Fibrous Non-Fibrous (Other) None Detected Fibrous Non-Fibrous (Other) None Detected Fibrous Side Non-Fibrous (Other) None Detected Fibrous None-Fibrous None Side Non-Fibrous (Other) None Detected Photogeneous Side Non-Fibrous (Other) None Detected Ph	161701395-0013		Non-Fibrous Homogeneous	3070 01233		None Delected
Exterior Outside Non-Fibrous Enterior Outside Non-Fibrous 16770385-0074 Kitchen Homogeneous 100% Non-fibrous (Other) None Detected 14/MB-2 Window Caulking / Exterior Outside Window Caulking / Exterior Outside Window Caulking / Non-Fibrous Non-Fibrous (Other) None Detected 14/MMC-1 Asphalt Shingle Roofing / Roof East Gray/Black 15% Glass 85% Non-fibrous (Other) None Detected 16/701395-0015 Side Heterogeneous Homogeneous None Detected None Detected 16/701395-0017 Side Heterogeneous 10% Glass 90% Non-fibrous (Other) None Detected 16/701395-0017 Side Heterogeneous 98% Non-fibrous (Other) 2% Chrysotile 16/701395-0017 Side Gray/Black 10% Glass 80% Non-fibrous (Other) None Detected 16/701395-0017 Side White/Black/Green 20% Glass 80% Non-fibrous (Other) None Detected 16/701395-0016 White/Black/Green 20% Glass 30% Non-fibrous (Other) None Detected 16/701395-0027 Side	H-MMB-1	Window Caulking /	White		100% Non-fibrous (Other)	None Detected
H-MMB-2 Window Caulking / Exterior Outside Mon-Fibrous	161701395-0014	Exterior Outside Kitchen	Non-Fibrous Homogeneous			
Extenior Outside Non-Fibrous 18770338-6015 Southwest Bedroom Homogeneous H-MMC-1 Asphall Shingle Roofing / Roof East Fibrous 15% Glass 85% Non-fibrous (Other) None Detected 18770338-6016 Side Heterogeneous 10% Glass 90% Non-fibrous (Other) None Detected 18770338-6017 Side Heterogeneous 10% Glass 90% Non-fibrous (Other) None Detected 18770338-6018 Koofing / Roof West Fibrous 98% Non-fibrous (Other) 2% Chrysotile 18770338-6018 Non-Fibrous 98% Non-fibrous (Other) 2% Chrysotile 18770338-6019 Side Heterogeneous 80% Non-fibrous (Other) None Detected 18770338-6019 Side White/Fibrous 80% Non-fibrous (Other) None Detected 18770338-6019 Side White/Fibrous 30% Cellulose 70% Non-fibrous (Other) None Detected 18770338-6019 Roofing / Roof Kest Fibrous 10% Glass 33% Non-fibrous (Other) None Detected 18770388-6020 Side Heterogeneous 10% Glass	H-MMB-2	Window Caulking /	White		100% Non-fibrous (Other)	None Detected
H-MMC-1 Asphalt Shingle Gray/Black 15% Glass 85% Non-fibrous (Other) None Detected Roofing / Roof East Fibrous Gray/Black 15% Glass 90% Non-fibrous (Other) None Detected Fibrous Gray/Black Roofing / Roof West Fibrous Heterogeneous Heterogeneous Heterogeneous B1-MMA-1 Asphalt Shingle Roofing / Roof West Fibrous Heterogeneous B1-MMA-1 Shingle Roofing / Roof West Fibrous Heterogeneous B1-MMA-1 Asphalt Shingle Roofing / White/Black/Green Side Heterogeneous B1-MMA-2 Asphalt Shingle Roofing / White/Black/Green Side Heterogeneous B1-MMA-2 Asphalt Shingle White/Black/Green Side Heterogeneous B1-MMA-2 Asphalt Shingle Heterogeneous B1-MMA-2 Asphalt Roofing / White/Black/Green Side Heterogeneous B1-MMA-2 Asphalt Shingle Roofing / White/Black/Green Side Heterogeneous B1-MMA-2 Asphalt Roofing / White/Black/Green Side Heterogeneous B1-MMA-2 Asphalt Roofing / White/Black/Green Side Heterogeneous Side Heterog	161701395-0015	Exterior Outside Southwest Bedroom	Non-Fibrous Homogeneous		()	
Roofing / Roof East Side Fibrous Heterogeneous 181701395-0015 Side Fibrous Heterogeneous H-MMC-2 Asphalt Shingle Roofing / Roof West Heterogeneous Gray/Black Fibrous 10% Glass 90% Non-fibrous (Other) None Detected 181701395-0017 Side Gray/Black Fibrous 98% Non-fibrous (Other) 2% Chrysotile 181701395-0018 Roofing / Roof West Roofing / Roof West Fibrous Gray/Black Non-Fibrous 98% Non-fibrous (Other) 2% Chrysotile 181701395-0019 Side White/Black/Green Fibrous 20% Glass 80% Non-fibrous (Other) None Detected 181701395-0019 Side White/Black/Green Fibrous 30% Cellulose 70% Non-fibrous (Other) None Detected 181701395-0020 Side Heterogeneous 10% Glass 33% Non-fibrous (Other) None Detected 181701395-0021 Roof Noth End Fibrous Fibrous 10% Glass 33% Non-fibrous (Other) 2% Chrysotile 181701395-0021 Roof Noth End Fibrous Fibrous 10% Glass 38% Non-fibrous (Other) 2% Chrysotile 181701395-0023 Side Heterogeneous 10% Glass 80% Non-fibrous (Other) 2% Chrysotile	H-MMC-1	Asphalt Shingle	Grav/Black	15% Glass	85% Non-fibrous (Other)	None Detected
H-MMC-2 Roofing / Roof West Fibrous Gray/Black Fibrous 10% Glass 90% Non-fibrous (Other) None Detected H-MMD-1 Roofing / Roof West Fibrous Gray/Black Fibrous 10% Glass 98% Non-fibrous (Other) 2% Chrysotile H-MMD-1 Roof Chimney Roofing Cement / Roof Chimney Gray/Black Non-Fibrous 98% Non-fibrous (Other) 2% Chrysotile H-MMA-1 Asphalt Shingle Roofing / Roof West White/Black/Green Fibrous 20% Glass 80% Non-fibrous (Other) None Detected 181701395-0019 Side White/Black/Green Roofing / Roof East Fibrous 20% Clause 70% Non-fibrous (Other) None Detected 181701395-0020 Side Heterogeneous 30% Cellulose 70% Non-fibrous (Other) None Detected 181701395-0020 Side Heterogeneous 10% Glass 33% Non-fibrous (Other) 2% Chrysotile 181701395-0020 Side Heterogeneous 10% Glass 33% Non-fibrous (Other) 2% Chrysotile 181701395-0021 Roof North End Fibrous Fibrous 10% Glass 38% Non-fibrous (Other) 2% Chrysotile 181701395-0022 Roofing / Roof North End Fibrous Torus 10% Glass 80% Non-fibrous (Other) 2% Chrysotile	161701395-0016	Roofing / Roof East Side	Fibrous Heterogeneous			
Roofing / Roof West Side Fibrous Heterogeneous H-MMD-1 Roofing Cement / Roof Chinney Gray/Black Non-Fibrous 98% Non-fibrous (Other) 2% Chrysotile 181703395-0012 Homogeneous Homogeneous 20% Glass 80% Non-fibrous (Other) None Detected 18170395-0013 Asphalt Shingle Roofing / Roof West 18170395-0019 Asphalt Shingle Roofing / Roof West 18170395-0019 Asphalt Shingle Roofing / Roof East 18170395-0020 White/Black/Green Roofing / Roof East 18170395-0020 30% Cellulose 18170395-0020 70% Non-fibrous (Other) None Detected B1-MMA-2 Asphalt Roll Roofing / Roofing / Roof East 18170395-0020 White/Black/Green Roofing / Roof East 18170395-0020 30% Cellulose 18170395-0021 70% Non-fibrous (Other) None Detected B1-MMB-1 Asphalt Roll Roofing / Roof North End 18170395-0021 White/Black/Silver 10% Glass 55% Cellulose 10% Glass 33% Non-fibrous (Other) 2% Chrysotile 181703395-0021 East 1070395-0021 Tan/Black/Green 10% Glass 20% Cellulose 10% Glass 38% Non-fibrous (Other) None Detected 181701395-0022 Side Tan/Black/Green Heterogeneous 20% Glass 80% Non-fibrous (Other) None Detected 181701395-0023 Side Tan/Black/Green Heterogeneous 20% Glass 80% Non-fibrous (Other) None Detected 181701395-0023 Side Homogeneous	H-MMC-2	Asphalt Shingle	Gray/Black	10% Glass	90% Non-fibrous (Other)	None Detected
H-MMD-1 Roofing Cement / Roof Chimney Non-Fibrous Monor Fibrous (Other) 2% Chrysotile Monogeneous 88% Non-fibrous (Other) 2% Chrysotile 48% Non-Fibrous (Other) 81% Non-Fibrous (Other) 91% None Detected 81% Non-Fibrous (Other) 91% None Detected 91% None None Detected 91% None None None None None None None	161701395-0017	Roofing / Roof West Side	Fibrous Heterogeneous			
International strate Homogeneous B1-MMA-1 Asphalt Shingle Roofing / Roof West Side White/Black/Green Heterogeneous 20% Glass 80% Non-fibrous (Other) None Detected 161701395-0019 Side White/Black/Green Roofing / Roof East Side 30% Cellulose 70% Non-fibrous (Other) None Detected 81-MMA-2 Asphalt Shingle Roofing / Roof East Side White/Black/Green Heterogeneous 30% Cellulose 70% Non-fibrous (Other) None Detected 81-MMB-1 Asphalt Roll Roofing / Roof North End White/Black/Silver Fibrous 55% Cellulose 10% Glass 33% Non-fibrous (Other) 2% Chrysotile 81-MMB-2 Asphalt Roll Roofing / Roof North End White/Black/Silver Fibrous 50% Cellulose 10% Glass 38% Non-fibrous (Other) 2% Chrysotile 81-MMB-2 Asphalt Roll Roofing / Roof North End Tan/Black/Green Fibrous 20% Glass 80% Non-fibrous (Other) None Detected 83-MMA-1-Shingle Asphalt Shingle Roofing / Roof North Tan/Black/Green Fibrous 20% Glass 80% Non-fibrous (Other) None Detected 83-MMA-1-Mastic Asphalt Shingle Roofing / Roof North Tan/Black/Green Fibrous 20% Glass 80% Non-fibrous (Other) None Detected 83-MMA-1-Felt Asphalt Shi	H-MMD-1	Roofing Cement / Roof Chimney	Gray/Black Non-Fibrous		98% Non-fibrous (Other)	2% Chrysotile
B1-MMA-1 Asphalt Shingle Roofing / Roof West White/Black/Green Fibrous 20% Glass 80% Non-fibrous (Other) None Detected 161701395-0019 Side White/Black/Green Roofing / Roof East 161701395-0020 Myhite/Black/Green Fibrous 30% Cellulose 70% Non-fibrous (Other) None Detected 161701395-0020 Side White/Black/Silver Heterogeneous 55% Cellulose 10% Glass 33% Non-fibrous (Other) None Detected 81-MMB-1 Asphalt Roll Roofing / Roof North End White/Black/Silver Fibrous 55% Cellulose 10% Glass 33% Non-fibrous (Other) 2% Chrysotile 81-MMB-2 Asphalt Roll Roofing / Roof North End White/Black/Silver Fibrous 50% Cellulose 10% Glass 38% Non-fibrous (Other) 2% Chrysotile 161701395-0022 White/Black/Green Roofing / Roof North Tan/Black/Green Fibrous 20% Glass 80% Non-fibrous (Other) None Detected 83-MMA-1-Shingle Asphalt Shingle Roofing / Roof North Tan/Black/Green Heterogeneous 20% Glass 80% Non-fibrous (Other) None Detected 83-MMA-1-Shingle Asphalt Shingle Roofing / Roof North Black Non-Fibrous 100% Non-fibrous (Other) None Detected 83-MMA-1-Mastic Asphalt Shingle Roofing / Roof North Black Non-Fibrous	161701395-0018		Homogeneous			
161701395-0019 Side Heterogeneous B1-MMA-2 Asphalt Shingle Roofing / Roof East White/Black/Green Fibrous 30% Cellulose 70% Non-fibrous (Other) None Detected 161701395-0020 Side Heterogeneous Heterogeneous 33% Non-fibrous (Other) 2% Chrysotile B1-MMB-1 Asphalt Roll Roofing / Roof North End White/Black/Silver Fibrous 55% Cellulose 33% Non-fibrous (Other) 2% Chrysotile B1-MMB-2 Asphalt Roll Roofing / Roof North End White/Black/Silver Fibrous 50% Cellulose 38% Non-fibrous (Other) 2% Chrysotile B3-MMA-1-Shingle Tan/Black/Green Roofing / Roof North Tan/Black/Green Fibrous 20% Glass 80% Non-fibrous (Other) None Detected B3-MMA-1-Mastic Asphalt Shingle Roofing / Roof North Black Hoterogeneous 100% Non-fibrous (Other) None Detected B3-MMA-1-Felt Asphalt Shingle Roofing / Roof North Black Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected B3-MMA-1-Felt Asphalt Shingle Roofing / Roof North Black Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected B3-MMA-1-Felt Asphalt Shingle Roofing / Roof North Black Homogeneous 60% C	B1-MMA-1	Asphalt Shingle Roofing / Roof West	White/Black/Green Fibrous	20% Glass	80% Non-fibrous (Other)	None Detected
B1-MMA-2 Roofing / Roof East B1701395-0020 Asphalt Shingle Roofing / Roof East Side White/Black/Green Heterogeneous 30% Cellulose 70% Non-fibrous (Other) None Detected B1-MMB-1 Asphalt Roll Roofing / Roof North End Myhite/Black/Silver Fibrous 55% Cellulose 33% Non-fibrous (Other) 2% Chrysotile B1-MMB-1 Asphalt Roll Roofing / Roof North End White/Black/Silver Fibrous 50% Cellulose 38% Non-fibrous (Other) 2% Chrysotile B1-MMB-2 Asphalt Roll Roofing / Roof North End White/Black/Silver Fibrous 50% Cellulose 38% Non-fibrous (Other) 2% Chrysotile B3-MMA-1-Shingle Asphalt Shingle Roofing / Roof North Tan/Black/Green Fibrous 20% Glass 80% Non-fibrous (Other) None Detected B3-MMA-1-Mastic Asphalt Shingle Roofing / Roof North Tan/Black/Silver Fibrous 20% Glass 80% Non-fibrous (Other) None Detected B3-MMA-1-Felt Asphalt Shingle Roofing / Roof North Black Homogeneous 100% Non-fibrous (Other) None Detected B3-MMA-1-Felt Asphalt Shingle Roofing / Roof North Black Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected B3-MMA-1-Felt Asphalt Shingle Roofing / Roof North Black Homogeneous 60% Cellulose <td>161701395-0019</td> <td>Side</td> <td>Heterogeneous</td> <td></td> <td></td> <td></td>	161701395-0019	Side	Heterogeneous			
Intronage-ouze Side Heterogeneous B1-MMB-1 Asphalt Roll Roofing / Roof North End White/Black/Silver Fibrous 55% Cellulose 33% Non-fibrous (Other) 2% Chrysotile 161701395-0021 Heterogeneous 10% Glass 10% Glass 38% Non-fibrous (Other) 2% Chrysotile B1-MMB-2 Asphalt Roll Roofing / Roof North End White/Black/Silver Fibrous 50% Cellulose 38% Non-fibrous (Other) 2% Chrysotile 161701395-0022 Roof North End Tan/Black/Green Fibrous 20% Glass 80% Non-fibrous (Other) None Detected 83-MMA-1-Shingle Asphalt Shingle Roofing / Roof North Tan/Black/Green Fibrous 20% Glass 80% Non-fibrous (Other) None Detected 83-MMA-1-Mastic Asphalt Shingle Roofing / Roof North Black 100% Non-fibrous (Other) None Detected 161701395-0023 Side Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected 161701395-0023A Side Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected 161701395-0023A Side Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected 161701395-0023B S	B1-MMA-2	Asphalt Shingle Roofing / Roof East	White/Black/Green Fibrous	30% Cellulose	70% Non-fibrous (Other)	None Detected
B1-MMB-1 Asphalt Roll Roofing / Roof North End White/Black/Silver Fibrous 55% Cellulose 33% Non-fibrous (Other) 2% Chrysotile 161701395-0021 Heterogeneous 10% Glass 10% Glass 38% Non-fibrous (Other) 2% Chrysotile B1-MMB-2 Asphalt Roll Roofing / Roof North End White/Black/Silver Fibrous 50% Cellulose 38% Non-fibrous (Other) 2% Chrysotile 161701395-0022 Heterogeneous 10% Glass 38% Non-fibrous (Other) 2% Chrysotile 83-MMA-1-Shingle Asphalt Shingle Roofing / Roof North Tan/Black/Green 20% Glass 80% Non-fibrous (Other) None Detected 161701395-0023 Side Heterogeneous 100% Non-fibrous (Other) None Detected 83-MMA-1-Mastic Asphalt Shingle Roofing / Roof North Black 100% Non-fibrous (Other) None Detected 161701395-0023A Side Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected 161701395-0023A Side Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected 161701395-0023B Side Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected	161701395-0020	Side	Heterogeneous			
B1-MMB-2 Asphalt Roll Roofing / Roof North End White/Black/Silver Fibrous 50% Cellulose 38% Non-fibrous (Other) 2% Chrysotile 161701395-0022 Heterogeneous 10% Glass 38% Non-fibrous (Other) 2% Chrysotile B3-MMA-1-Shingle Asphalt Shingle Roofing / Roof North Tan/Black/Green Fibrous 20% Glass 80% Non-fibrous (Other) None Detected 161701395-0023 Side Heterogeneous 100% Non-fibrous (Other) None Detected B3-MMA-1-Mastic Asphalt Shingle Roofing / Roof North Black Non-Fibrous 100% Non-fibrous (Other) None Detected 161701395-0023A Side Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected B3-MMA-1-Felt Asphalt Shingle Roofing / Roof North Black Fibrous 60% Cellulose 40% Non-fibrous (Other) None Detected 161701395-0023B Side Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected	B1-MMB-1	Asphalt Roll Roofing / Roof North End	White/Black/Silver Fibrous	55% Cellulose 10% Glass	33% Non-fibrous (Other)	2% Chrysotile
B1-MMB-2 Asphalt Roll Rolling / Roll Rolling / Roof North End White/Black/Sliver 50% Cellulose 38% Non-fibrous (Other) 2% Chrysotile 161701395-0022 Heterogeneous 10% Glass 10% Glass 80% Non-fibrous (Other) None Detected B3-MMA-1-Shingle Asphalt Shingle Tan/Black/Green 20% Glass 80% Non-fibrous (Other) None Detected 161701395-0023 Side Heterogeneous 100% Non-fibrous (Other) None Detected B3-MMA-1-Mastic Asphalt Shingle Black 100% Non-fibrous (Other) None Detected 161701395-0023A Side Homogeneous 100% Cellulose 40% Non-fibrous (Other) None Detected B3-MMA-1-Felt Asphalt Shingle Black 60% Cellulose 40% Non-fibrous (Other) None Detected 161701395-0023B Side Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected	D4 MMD 0	Aanhalt Dall Daafing /	Maite (Disely (Cilyer		200/ Neg Shrave (Other)	20/ Chrysotile
B3-MMA-1-Shingle Asphalt Shingle Tan/Black/Green 20% Glass 80% Non-fibrous (Other) None Detected 161701395-0023 Side Heterogeneous 100% Non-fibrous (Other) None Detected B3-MMA-1-Mastic Asphalt Shingle Black 100% Non-fibrous (Other) None Detected B3-MMA-1-Mastic Asphalt Shingle Black 100% Non-fibrous (Other) None Detected 161701395-0023A Side Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected B3-MMA-1-Felt Asphalt Shingle Black 60% Cellulose 40% Non-fibrous (Other) None Detected 161701395-0023B Side Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected	B1-WIWB-2 161701395-0022	Roof North End	Fibrous	10% Glass	38% Non-fibrous (Other)	2% Chrysotile
Boommer Formingic Reprint Oringic Reprint Oringic <threprint oringic<="" th=""> <threprint oringic<="" th=""> <th< td=""><td> R3_MMΔ_1. Shingle</td><td>Asphalt Shingle</td><td>Tan/Black/Green</td><td>20% Glass</td><td>80% Non-fibrous (Other)</td><td>None Detected</td></th<></threprint></threprint>	 R3_MMΔ_1. Shingle	Asphalt Shingle	Tan/Black/Green	20% Glass	80% Non-fibrous (Other)	None Detected
B3-MMA-1-Mastic Asphalt Shingle Black 100% Non-fibrous (Other) None Detected Roofing / Roof North Non-Fibrous 100% Non-fibrous (Other) None Detected 161701395-0023A Side Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected B3-MMA-1-Felt Asphalt Shingle Roofing / Roof North Black 60% Cellulose 40% Non-fibrous (Other) None Detected 161701395-0023B Side Homogeneous 60% Cellulose 40% Non-fibrous (Other) None Detected	161701395-0023	Roofing / Roof North Side	Fibrous Heterogeneous	2070 01233		None Delected
Bit Mine Detected Non-Fibrous 161701395-0023A Side B3-MMA-1-Felt Asphalt Shingle Roofing / Roof North Bide Black 60% Cellulose 40% Non-fibrous (Other) None Detected 161701395-0023B Side	B3-MMA-1-Mastic	Asphalt Shingle	Black		100% Non-fibrous (Other)	None Detected
B3-MMA-1-Felt Asphalt Shingle Black 60% Cellulose 40% Non-fibrous (Other) None Detected Roofing / Roof North Fibrous 161701395-0023B Side Homogeneous	161701395-0023A	Roofing / Roof North Side	Non-Fibrous Homogeneous			
161701395-0023B Side Homogeneous	B3-MMA-1-Felt	Asphalt Shingle Roofing / Roof North	Black Fibrous	60% Cellulose	40% Non-fibrous (Other)	None Detected
	161701395-0023B	Side	Homogeneous			

Initial report from: 01/26/2017 17:10:32



Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
B3-MMA-2 161701395-0024	Asphalt Shingle Roofing / Roof South Side	White/Black/Green Fibrous Heterogeneous	55% Cellulose	45% Non-fibrous (Other)	None Detected
B3-MMB-1 161701395-0025	Asphalt Shingle Siding / Exterior North Side	White/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
B3-MMB-2 161701395-0026	Asphalt Shingle Siding / Exterior South Side	White/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
B3-MMC-1 161701395-0027	Window Glazing Compound/ Exterior South Side	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B3-MMC-2 161701395-0028	Window Glazing Compound/ Exterior South Side	Brown/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B3-MMD-1 161701395-0029	Window/Door Caulking / Exterior Window South Side	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
B3-MMD-2 161701395-0030	Window/Door Caulking / Exterior Window North Side	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
B3-MME-1 161701395-0031	Roofing Cement / Roof Chimney	Gray/Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile

Analyst(s)

Jadda Moffett (18) Ross Matlock (24)

Vehand

Richard Harding, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analysical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from: 01/26/2017 17:10:32



Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):



EMSL Analytical, Inc.

2001 East 52nd Street Indianapolis, IN 46205 Phone: (317) 803-2997 Fax: (317) 803-3047

Company:	KAM Services, Inc.	Bill To:	KAM Services, Inc. (KAM62)		
Address1:	601 Broadway Ave., Suite 2	Address1:	601 Broadway Ave., Suite 2		
Address2:	P.O. Box 1515	Address2:	P.O. Box 1515		
City, State:	Mattoon, IL	City, State:	Mattoon, IL		
Zip/Post Code:	61938	Zip/Post Code: 61938			
Country:	USA	Country:	USA		
Contact Name:	Mark E. Mitchell	Attn:	Kyndall R. Edwards		
Phone:	(217) 235-9537	Phone:	(217) 235-9537		
Fax:	(217) 235-0299	<i>Fax:</i> (217) 235-0299			
Email:	markm@kamservicesinc.com	Email:	kyndalle@kamservicesinc.com		
U.S. State Samples Taken		Please Provide Results: 🗆 Fax 🔳 E-mail 🗆 Mail			
Project Name/Number:	Farmhouse & Outbuildings, 11539	utbuildings, 11539 Old Highway 50, Flora, IL 62839 / 17-1003			

MATRIX			TURNARO	UND TI	IME (TA	AT) Options* - P	lease Check
🗆 Air	🗆 Soil	☐ Micro-Vac	🗌 3 Hours	□бн	ours		24 Hours (1 day)
Bulk	Drinking Water		☐ 48 Hours (2 Days)	72 I (3 D	Hours Days)	D 96 Hours (4 Days)	□ 120 Hours (1 Week)
🗌 Wipe	U Wastewater		2 Week				
* For TEM Air 3 hr, 6 sign authorization form	hr, please call ahead to s n for this services. Analy	chedule *There is a pre sis complete in accorda	mum charge for 3 Ho ince with EMSL's Terr	ur TEM A ns and Co	HERA or I nditions lo	EPA Level II TAT. Y cated in the Analytics	ou will be asked to al Price Guide.
<u>PCM -Air</u> □c	heck if samples from NY	<u>TEM - Air</u>	4-4.5hr TAT (AHI	(RA only)	<u>TEM -</u>	Dust	
□ NIOSH 7400		AHERA 40) CFR, Part 763		🗆 Mici	rovac - ASTM D	5755
🗆 w/ OSHA 8hr	. TWA	□ NIOSH 74	02		🗆 Wip	e - ASTM D6480)
PLM - Bulk (reporting limit)		EPA Level	EPA Level II Carpet Sonication (E		PA 600/J-93/167)		
PLM EPA 60	0/R-93/116 (<1%)	🗆 ISO 10312	ISO 10312 Soil/Rock/Vermiculite				
🗆 PLM EPA NO	OB (<1%)	TEM - BULK			🗆 PLN	I CARB 435 - A	(0.25% sensitivity)
Point Count		TEM EPA	NOB		🗆 PLM	1 CARB 435 - B	(0.1% sensitivity)
□ 400 (<0.25%)) 🗌 1000 (<.1%)	□ NYS NOB	NYS NOB 198.4 (non-friable-NY) TEM CARB 435 - B ((0 1% sensitivity)		
Point Count w/G	ravimetric	Chatfield S	Chatfield SOP		TEM CARB 435 - C (0.01% sensitivity)		(0.01% sensitivity)
□ 400 (<0.25%) □ 1000 (<.1%) □ TEM Mass Analysis-EPA 600		sec 2.5	2.5 TEM Qual. via Filtration Technique				
🗆 NYS 198.1 (f	riable in NY)	<u>TEM - Water</u>	: EPA 100.2		□ TEM	1 Qual. via Drop-	Mount Technique
🗆 NYS 198.6 N	OB (non-friable-NY) Fibers >10µm	🗆 Waste 🗆 D	rinking	<u>Other:</u>		
🗆 NIOSH 9002	(<1%)	All Fiber Sizes	S 🗌 Waste 🗌 Di	rinking			
Check For Positive Stop - Clearly Identify Homogeneous Group Filter Pore Size (Air Samples): 0.8 µm 0.45 µm							
Samplers Name:	Mark Mitchell		Samplers S	ignature	· Ma	N Mothe	λ) — — —

OrderID: 161701395

EMSLANALYTICAL INC.	Asbestos Chain of Custody EMSL Order Number (Lab Use Only): /395		EMSL Analytical, Inc. 2001 East 52nd Street Indianapolis, IN 46205 Phone: (317) 803-2997 Fax: (317) 803-3047
Client Sample # (s) <u>Sec</u> Relinquished: <u></u> Received: Relinquished: Received:	<u>Below</u> <u>Date: 01/23/2017</u> <u>Date: 1/24/17</u> <u>Date:</u> <u>Date:</u> <u>Date:</u>	Total S Time: Time: Time: Time:	Samples #: <u>31</u> <u>5:00 p.m.</u> 1015075
SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION		VOLUME (if applicable)
	House		· · · · · · · · · · · · · · · · · · ·
H-SPA-1	Hard Plaster / Utility Closet		
H-SPA-2	Hard Plaster / Kitchen		
H-SPA-3	Hard Plaster / Living Room		
H-MCA-1	1'x1' Ceiling Tile / Kitchen		
H-MCA-2	1'x1' Ceiling Tile / Kitchen		
H-MFA-1	9"x9" Floor Tile & Mastic / Kitchen		
H-MFA-2	9"x9" Floor Tile & Mastic / Bathroom		
H-MFB-1	Linoleum & Mastic / Family Room		
H-MFB-2	Linoleum & Mastic / Southwest Bedroom		
H-MFC-1	Sheet Vinyl & Mastic / Kitchen		· · · · · · · · · · · · · · · · · · ·
H-MFC-2	Sheet Vinyl & Mastic / Kitchen		
H-MMA-1	Attic Insulation / Attic		
H-MMA-2	Attic Insulation / Attic		
H-MMB-1	Window Caulking / Exterior Outside Kitchen		
H-MMB-2	Window Caulking / Exterior Outside Southwest Bedroom		
H-MMC-1	Asphalt Shingle Roofing / Roof East Side		·
H-MMC-2	Asphalt Shingle Roofing / Roof West Side		
H-MMD-1	Roofing Cement / Roof Chimney		
	East Outbuilding #1		
B1-MMA-1	Asphalt Shingle Roofing / Roof West Side		
B1-MMA-2	Asphalt Shingle Roofing / Roof East Side		
B1-MMB-1	Asphalt Roll Roofing / Roof North End		
B1-MMB-2	Asphalt Roll Roofing / Roof North End		



EMSL ANALYTICAL, INC.

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

1395

EMSL Analytical, Inc.

2001 East 52nd Street Indianapolis, IN 46205 Phone: (317) 803-2997 Fax: (317) 803-3047

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
	West Outbuilding #3	
B3-MMA-1	Asphalt Shingle Roofing / Roof North Side	
B3-MMA-2	Asphalt Shingle Roofing / Roof South Side	
B3-MMB-1	Asphalt Shingle Siding / Exterior North Side	
B3-MMB-2	Asphalt Shingle Siding / Exterior South Side	
B3-MMC-1	Window Glazing Compound / Exterior South Side	
B3-MMC-2	Window Glazing Compound / Exterior South Side	
B3-MMD-1	Window/Door Caulking / Exterior Window South Side	
B3-MMD-2	Window/Door Caulking / Exterior Door North Side	
B3-MMD-1	Roofing Cement / Roof Chimney	
Mne 112:5117		
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		· · · · · · · · · · · · · · · · · · ·
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APPENDIX B

INSPECTOR'S & MANAGEMENT PLANNER'S LICENSES



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

4/6/2016

MARK E MITCHELL 11113 E LAKE EDWARD LANE EFFINGHAM, IL 62401

ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 00360

Enclosed is your Asbestos Professional License that expires 05/15/2017

CERTIFICATE EXPIRATION DATE

SUPERVISOR/WORKER	2/2/2017
INSPECTOR	2/3/2017
MANAGEMENT PLANNER	2/3/2017
PROJECT MANAGER	2/2/2017
AIR SAMPLING PROFESSIONAL	

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:

http://www.dph.illinois.gov/topics-services/environmental-health-protection/asbestos

IDPH	ASBE PROFE LIC	STOS SSIONAL ENSE		ENDORSEMENTS SUPERVISOR/WORKER INSPECTOR	TC EXPIRES 2/2/2017 2/3/2017
ID NUMBER 100 - 00360	ISSUED 4/6/2016	EXPIRES 05/15/2017		MANAGEMENT PLANNER PROJECT MANAGER AIR SAMPLING PROFESSIONAL	2/3/2017 2/2/2017
MARK E MITCHELL 11113 E LAKE EDWARD LANE EFFINGHAM, IL 62401 Environmental Health		TI cre	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.		

Reliable 巨加VIIPOD加meDftal Solutions, Inc. R E S

This is to certify that

Mark Mitchell

completed the requirements for asbestos accreditation under Section 206 of TSCA Title II has on 02/03/16, in Springfield, Illinois,

Asbestos Building Inspector Refresher Training

as accredited by the State of Illinois and approved by the U.S.E.P.A. under 40 CFR 763 (AHERA) and passed the associated examination with a score of 70% or higher

Course Date: February 3, 2016

Examination Date: February 3, 2016

Expiration Date: February 3, 2017

Certificate Number: BIR/0517

Phillian S. Philliam

COURSE LENGTH: 4 HOURS

Course Instructor, William S. Williams

4211 Westgate Drive, Springfield, Illinois 🏾 217.787.9800 🗆 217.787.9801 FAX 🗆 www.ReliableEnv.com

B 2302

The University of Illinois at Chicago School of Public Health

MIDWEST ASBESTOS INFORMATION CENTER

Certifies that

MARK M. MITCHELL

Has Attended the Continuing Education Course

BUILDING INSPECTION

and Successfully Passed the Competency Exam

MARCH 16, 1988 Date of Issuance

MARCH 16, 1989 Date of Expiration

Continuing Education Director

No Burdy MU

Dean V School of Public Health



Reliable 론加Vironmental Solutions, Inc. R E S

This is to certify that Mark Mitchell

completed the requirements for asbestos accreditation under Section 206 of TSCA Title II has on 02/03/16, in Springfield, Illinois,

S///

Asbestos Management Planner Refresher Training

as accredited by the State of Illinois and approved by the U.S.E.P.A. under 40 CFR 763 (AHERA) and passed the associated examination with a score of 70% or higher

Course Date: February 3, 2016

Examination Date: February 3, 2016

Expiration Date: February 3, 2017

Certificate Number: MPR/0281

Phillin S. Milliam

COURSE LENGTH: 4 HOURS

Course Instructor, William S. Williams

4211 Westgate Drive, Springfield, Illinois 🏾 217.787.9800 🗆 217.787.9801 FAX 🗆 www.ReliableEnv.com

The University of Illinois at Chicago School of Public Health OWEST ASBESTOS INFORMATION CENTER

Certifies that

MARK E. MITCHELL

Has Attended the Continuing Education Course

MANAGEMENT PLANNING

(Accredited under AHERA by EPA)

Which has been fully approved and accredited by the Illinois Department off Public Health

and Successfully Passed the Competency Exam

With a minimum score of at least 70%

11-29-30-90 COURSE DATE:

Date of Issuance 11-30-90 (Nete of Expiration 3.1-30-91

Continuing Education Director

the a survey Com /



Å7338

APPENDIX C

LABORATORY ACCREDITATION

United States Department of Commerce National Institute of Standards and Technology	NVLAP LAB CODE: 200188-0	EMSL Analytical, 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 17025:2005. 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).	2016-04-01 through 2017-03-31 Effective Dates Effective Dates For the National Voluntary Laboratory Accreditation Program
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National Voluntary



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.

2001 E. 52nd Street Indianapolis, IN 46205-1405 Mr. Richard Harding Phone: 317-803-2997 Fax: 317-803-3047 Email: rharding@emsl.com http://www.emsl.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200188-0

Bulk Asbestos Analysis

CodeDescription18/A01EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples18/A03EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

<u>Code</u>

<u>Description</u>

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.

and I. aldering

For the National Voluntary Laboratory Accreditation Program