#### LIMITED ASBESTOS AND LEAD-BASED PAINT INSPECTION REPORT

#### KAMINSKI HOUSE BATHROOMS

Georgetown, South Carolina
Asbestos Inspections, LLC Project # 2017-253
Performed in general accordance with SCDHEC regulation 61-86.1
along with OSHA regulation 29 CFR 1926 and 29 CFR 1926.62

#### **Assessment Completed by:**



Asbestos Inspections, LLC 4686 Pee Dee Highway Conway, South Carolina 29527 (843) 397-7008

> Dawn Schoolcraft SCDHEC ID# BI-00738

#### **Assessment Completed For:**

City of Georgetown
Engineering Department
Mr. Orlando Arteaga, P.E.
2377 Maybank Drive
Georgetown, South Carolina 29442

**Inspection Completed On** – December 18, 2017 **Report Prepared On** – December 21, 2017

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#### 1.0 SIGNATURE PAGE

This report has been performed at the request of Mr. Orlando Arteaga, with the City of Georgetown. The inspection was conducted by Mrs. Dawn Schoolcraft with Asbestos Inspections, LLC on December 18, 2017. The report was prepared and reviewed by the undersigned inspector.

<b>Inspection Performed by:</b>	SCDEHC#	Expires	Signature	Date
				1 - 1
Dawn Schoolcraft	BI-00738	1/17/18	Dawn Schoolcraft	12/18/17
Report Prepared by:				
				, ,
Dawn Schoolcraft	BI-00738	1/17/18	Dawn Schoolcraft	12/20/17
Report Reviewed by:				
				, ,
Dawn Schoolcraft	BI-00738	1/17/18	Dawn Schoolcraft	12/20/17



#### 2.0 COVER LETTER

December 21, 2017

City of Georgetown Engineering Department Mr. Orlando Arteaga, P.E. 2377 Maybank Drive Georgetown, South Carolina 29442

Subject: Asbestos and Lead-Based Paint Inspection Report

Kaminski House Bathrooms Georgetown, South Carolina

Asbestos Inspections, LLC Project # 2017-253

Dear Mr. Arteaga:

Asbestos Inspections, LLC has completed a Limited Asbestos and Lead-Based Paint Inspection for the Kaminski House public bathrooms located at 1003 Front Street, in Georgetown, South Carolina. The inspection was completed on December 18, 2017 by a South Carolina Department of Health and Environmental Control (SCDHEC) building inspector. The lead-based paint inspection was completed by a licensed lead paint inspector.

The following report summarizes the project background, assessment procedures, results, and conclusions. The results presented in this report are indicative of conditions during the time of the inspection and of the specific areas outlined. The information provided in this report should not be used as a bidding document and field conditions should be verified. Should suspect building materials, not included within this report, be identified or impacted during the destructive activities, bulk samples must be collected and analyzed for asbestos content.

I appreciate this opportunity to provide my services. Should you have any questions concerning this report, please contact me at (843) 397-7008 or (843) 995-5197.

Sincerely,

Dawn Schooleraft

Dawn Schoolcraft Asbestos Building Inspector (SCDHEC #BI-00738) Lead Paint Inspector (License #LBP-I-I162035-1)

#### 3.0 EXECUTIVE SUMMARY

#### 3.1 Scope and Purpose

Mr. Orlando Arteaga with the City of Georgetown, requested this assessment for the Kaminski House public bathrooms located 1003 Front Street, in Georgetown, South Carolina. It is our understanding that the structure is scheduled for renovations. The purpose of this assessment is to identify asbestos containing materials (ACMs) prior to the scheduled renovation.

The inspection was completed in accordance with procedures specified in SCDHEC regulation 61.86.1 along with Occupational Safety and Health Administration (OSHA) regulation 29 Code of the Federal Regulations (CFR) 1926 and Lead-Based Paint Inspection along with Occupational Safety and Health Administration (OSHA) Lead in Construction Standard regulation 29 Code of the Federal Regulations (CFR) 1926.62. The lead paint chip samples collected were analyzed by a laboratory recognized under the Environmental Protection Agencies (EPA) National Lead Laboratory Accreditation Program (NLLAP). The representative asbestos bulk samples collected were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory which is administered by the National Institute of Standards and Technology (NIST). This report has been prepared in accordance with Environmental Protection Agency (EPA) 40 CFR, 763.85(a)(4).

#### 3.2 Facility Conditions

The subject structure is approximately 300 square-feet public bathroom, constructed on a slab-on-grade foundation, with a sheet metal roof. The exterior of the building consists of a brick veneer with wood-framed windows. The interior consists of multiple sheet floorings and includes drywall walls and ceilings. It is our understanding that the windows are being replaced and the walls and ceilings are not being removed. We further understand that new bathroom fixtures will be included during renovations. At this time, we have been requested to sample the vinyl floor coverings and window glaze for asbestos content and paint coatings associated with the windows/frames, exterior facia board, and the metal plate above the windows. No other samples were collected during this inspection.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, locked rooms, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during renovation, bulk samples should be collected and analyzed for asbestos content.

#### 3.3 Findings and Conclusions

#### a. Asbestos

The EPA and SCDHEC define materials as asbestos containing if an asbestos content >1% is identified in a representative sample. **Asbestos >1% was detected** in the following materials sampled and analyzed:

• WG – Exterior window glazing – Approximately 25 lf (4 windows)

The above identified ACM must be removed by a properly licensed asbestos abatement contractor. A copy of this report along with an application for abatement must be submitted to SCDHEC 2 working days prior to any abatement activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

#### b. Lead-Based Paint

EPA defines paint as lead-based if an amount greater than 0.5% lead by weight is identified in a paint chip sample. The SCDHEC and EPA requires the disposal of paint coated items be placed in a Municipal Solid Waste lined landfill. Based on samples collected from the previous inspection and along with the samples collected during this inspection, lead greater than 0.5% was identified in the following paint coated surfaces sampled and analyzed:

- P1 Exterior window frame
- P2 Exterior wood facia board

It is my understanding that the windows and facia board are to be completely removed and replaced with new windows and facia board. This will reduce lead paint exposure as no sanding or grinding will take place to the identified lead paint. However, care should be taken when disturbing the paint coated surfaces as the paint is in poor condition. Any paint chips or flakes should be cleaned up and disposed of accordingly. Workers should wear proper personnel protection equipment (PPE) during the removal of the building components. Additionally, the above identified paint coated surfaces must be disposed of in an EPA approved lined landfill. A copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The results presented in this report are indicative of conditions during the time of the assessment. The information provided in this report should not be used as a bidding document and field conditions and quantities should be verified.

#### 4.0 ASBESTOS ASSESSMENT DATA

The assessment was performed by observing and sampling suspect ACMs in the structure prior to the scheduled demolition. Representative bulk samples were then extracted, recorded on a chain of custody, and submitted to CEI Labs of Cary, North Carolina for laboratory analysis. The samples were tested via Polarized Light Microscopy (PLM); however, SCDHEC requires a Transmission Electron Microscopy (TEM) test be performed for all non-friable organically bound material found negative via PLM.

The following table exhibits the suspect material sampled, location, quantity of material sampled, condition of material, potential for future disturbance, laboratory test method, and laboratory result for each sample collected.

Sample #	Material	Location	Cat./# Samples	Qty.	Asbestos Type	%	Cond.	Pot. Dist.	Haz. Assess.	Test Method
F1-01	Speckled Vinyl Sheet Floor	Men's			ND	0	G/NF	PSD	3	PLM
	Clear Mastic	Bathroom	M/2	180 sf	ND	0	G/NF	PSD	3	PLM
F1-02	Speckled Vinyl Sheet Floor	Men's	101/3	100 81	ND	0	G/NF	PSD	3	PLM
	Clear Mastic	Bathroom			ND	0	G/NF	PSD	3	PLM

December 21, 2017

Sample #	Material	Location	Cat./# Samples	Qty.	Asbestos Type	%	Cond.	Pot. Dist.	Haz. Assess.	Test Method						
F1-03	Speckled Vinyl Sheet Floor	Women's Bathroom			ND	0	G/NF	PSD	3	TEM						
	Clear Mastic	Daulitooili			ND	0	G/NF	PSD	3	TEM						
F2-01	Brown Wood Pattern Sheet Floor				ND	0	G/NF	PSD	3	PLM						
	Tan Mastic					ND	0	G/NF	PSD	3	PLM					
F2-02	Brown Wood Pattern Sheet Floor	Open Area Outside of			M/3	M/3 120 sf	ND	0	G/NF	PSD	3	PLM				
	Tan Mastic	Bathrooms									ND	0	G/NF	PSD	3	PLM
F2-03	Brown Wood Pattern Sheet Floor						ı				ND	0	G/NF	PSD	3	TEM
	Tan Mastic	1			ND	0	G/NF	PSD	3	TEM						
WG-01	Window Glaze	Exterior			Chrysotile	3	D/F	PSD	6	PLM						
WG-02	Window Glaze	Windows	M/3	25 lf	-	-	-	-	-	-						
WG-03	Window Glaze	windows			-	-	-	-	-	-						

#### **Abbreviations and Hazard Assessment Key**

#### Category and Sampling #'s

Miscellaneous (M) = 3 samples required

Surfacing (S) = <1,000 sf = 3 samples required; 1,000-5,000 sf = 5 samples; >5,000 sf = 7 samples

Thermal System Insulation (TSI) = < 6 sf = 1 sample required; > 6 sf = 3 samples

#### **Present Condition**

 $\overline{F} = Friable$  G = Good (very localized limited damage)

NF = Non-friable D = Damaged (Damage of less than 10% distributed and less than 25% localized)

SD = Significantly Damaged (Damage equal to or greater than 10% distributed/25% localized)

#### **Potential for Future Disturbance**

LPD = Low potential for disturbance (Contact, vibration, and air erosion all of low concern)

PD = Potential for damage (Contact, vibration, or air erosion of moderate concern)

PSD = Potential for significant damage (Contact, vibration, or air erosion of high concern)

#### <u>Hazard Assessment - Present Condition Versus Potential for Future Disturbance</u>

Good	Damaged	Significantly Damaged = $7$
LPD = 1	LPD = 4	
PD = 2	PD = 5	

PSD = 3 PSD = 6

#### **Test Method**

PLM = Polarized Light Microscopy

TEM = Transmission Electron Microscopy (required by SCDHEC for confirmation of negative results for non-friable organically bound materials)

--= Sample not analyzed due to positive PLM results.

#### Misc.

sf = Square Feet lf = Linear Feet

ND = None Detected

EPA, SCDHEC, and OSHA define a material as asbestos containing if an asbestos content greater than 1% is detected.

Please understand that quantities are estimated and should not be used for bidding purposes. Field conditions should be verified prior to bidding.

#### 5.0 LEAD-BASED PAINT ASSESSMENT DATA

The assessment was performed by identifying paint coated surfaces associated with the structure. Paint chip samples were then collected for each painted surface of the structure's building components, which includes but is not limited to shutters, siding, exterior trim, window trim, window sills, interior and exterior doors, door frames, walls, baseboards, chair rails and floors. The samples collected were approximately 1-4 square inches in size and included all layers of paint, placed inside an appropriate sample container, and labeled accordingly using a unique identification number. A chain of custody was completed for the samples with project specific information and then submitted to CEI, Inc. for analysis. The samples collected were analyzed via EPA Method SW846 7000B. The following outlines the paint chip samples collected and analyzed:

Sample #	Substrate	Component	Color	Paint Location	Condition	Lead Concentration (mg/cm²)
P-1	Wood	Window	White	Exterior Window Sill	Poor	2.4
P-2	Wood	Facia Board	White	Exterior Facia Board	Poor	2.3
P-3	Metal	Window	White	Exterior Window Plate	Poor	0.10

<sup>\*</sup>mg/cm<sup>2</sup> = milligrams per cubic centimeter

#### **Condition Assessment Key**

Condition 1 issuessment 12cy							
Type of Didg. Component	Total Area of Deteriorated Paint on Each Component						
Type of Bldg. Component	Intact	Fair <sup>1</sup>	Poor <sup>2</sup>				
Exterior components with	Entire surface area	Less than or equal to 10	More than 10 square				
large surface area	is intact	square feet	feet				
Interior components with large	Entire surface area	Less than or equal to 2 square	More than 2 square				
surface area	is intact	feet	feet				
Interior and exterior	Entire surface area	Less than or equal to 10% of	More than 10% of				
components with small	is intact	the total surface area of	the total surface area				
surface areas	is illact	component	or the component				

Superscript 1 = surfaces in "fair" condition should be repaired and/or monitored, but are not considered to be lead based paint hazards.

Superscript 2 = surfaces in "poor" condition are considered to be lead based paint hazards as defined by Title X and should be addressed through abatement or interim controls.

A site location plan identified as Figure 1 is in Appendix 1 of this report, photographs are in Appendix 2, laboratory results are in Appendix 3, and SCDHEC and EPA Licenses is in Appendix 4.

#### 6.0 CONCLUSIONS

#### a. Asbestos

The EPA and SCDHEC define materials as asbestos containing if an asbestos content >1% is detected in a representative sample. **Asbestos >1% was detected** in the following material sampled and analyzed for the Kaminski House public bathrooms located at 1003 Front Street, in Georgetown, South Carolina:

• WG – Exterior window glazing – Approximately 25 lf (4 windows)

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, locked rooms, behind exterior veneer, pipe chases, below the wood roof decking, or wall voids. If additional suspect materials not included in this report are discovered during demolition, bulk samples should be collected and analyzed for asbestos content.

The above identified ACM must be removed by a properly licensed asbestos abatement contractor. A copy of this report along with an application for abatement must be submitted to SCDHEC 2 working days prior to any abatement activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

#### a. Lead-Based Paint

EPA defines paint as lead-based if an amount greater than 0.5 percent lead by weight is identified in a paint chip sample. The SCDHEC and RPA requires the disposal of paint coated items be placed in a Municipal Solid Waste lined landfill. Based on samples during this inspection, <u>lead greater than 0.5 percent was</u> identified in the following paint coated surfaces sampled and analyzed:

- P1 Exterior window frame
- P2 Exterior wood facia board

It is my understanding that the windows and facia board are to be completely removed and replaced with new windows and facia board. This will reduce lead paint exposure as no sanding or grinding will take place to the identified lead paint. However, care should be taken when disturbing the paint coated surfaces as the paint is in poor condition. Any paint chips or flakes should be cleaned up and disposed of accordingly. Workers should wear proper personnel protection equipment (PPE) during the removal of the building components. Additionally, the above identified paint coated surfaces must be disposed of in an EPA approved lined landfill. A copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

#### **APPENDIX 1**

Site Location Plan (Figure 1)





Site Location Plan Public Bathrooms Kaminski House Georgetown, SC Project # - 2017-253

Scale: Not to Scale Reviewed By: DS Date: 12/20/17 Source: Google Earth

Figure 1

#### **APPENDIX 2**

Photographs

#### LIMITED ASBESTOS & LEAD INSPECTION REPORT KAMINSKI HOUSE BATHROOMS

Project Number – 2017-253 December 20, 2017









## LIMITED ASBESTOS & LEAD INSPECTION REPORT KAMINSKI HOUSE BATHROOMS Project Number – 2017-253 December 20, 2017



#### **APPENDIX 3**

Asbestos Laboratory Results



December 19, 2017

Asbestos Inspections LLC 4686 Peedee Hwy Conway, SC 29527

**CLIENT PROJECT:** Kaminski House Bathrooms

**CEI LAB CODE**: A17-18846

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on December 18, 2017. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH Laboratory Director





## ASBESTOS ANALYTICAL REPORT By: Polarized Light Microscopy

#### Prepared for

#### **Asbestos Inspections LLC**

CLIENT PROJECT: Kaminski House Bathrooms

CEI LAB CODE: A17-18846

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 12/19/17

TOTAL SAMPLES ANALYZED: 5

# SAMPLES > 1% ASBESTOS: 1

TEL: 866-481-1412

www.ceilabs.com



#### **Asbestos Report Summary**

By: POLARIZING LIGHT MICROSCOPY

**PROJECT:** Kaminski House Bathrooms **CEI LAB CODE:** A17-18846

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
F1-01	Layer 1	A2572920	Speckled	Vinyl Sheet Floor	None Detected
	Layer 2	A2572920	Clear	Mastic	None Detected
F-02	Layer 1	A2572921	Speckled	Vinyl Sheet Floor	None Detected
	Layer 2	A2572921	Clear	Mastic	None Detected
F-03		A2572922		Sample Submitted for TEM Analysis	
F2-01	Layer 1	A2572923	Brown,Wood Pattern	Sheet Floor	None Detected
	Layer 2	A2572923	Tan	Mastic	None Detected
F2-02	Layer 1	A2572924	Brown,Wood Pattern	Sheet Floor	None Detected
	Layer 2	A2572924	Tan	Mastic	None Detected
F2-03		A2572925		Sample Submitted for TEM Analysis	
WG-01		A2572926	White	Window Glaze	Chrysotile 3%
WG-02		A2572927		Sample Not Analyzed per COC	
WG-03		A2572928		Sample Not Analyzed per COC	



#### **ASBESTOS BULK ANALYSIS**

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC

4686 Peedee Hwy Conway, SC 29527 CEI Lab Code: A17-18846

Date Received: 12-18-17

Date Analyzed: 12-19-17

Date Reported: 12-19-17

Project: Kaminski House Bathrooms

#### ASBESTOS BULK PLM, EPA 600 METHOD

Client ID	Lab	Lab	NO	N-ASBESTOS	COMPO	NENTS	ASBESTOS
Lab ID	Description	Attributes	Fibr	ous	Non-	Fibrous	%
<b>F1-01</b> Layer 1 A2572920	Vinyl Sheet Floor	Heterogeneous Speckled Fibrous Bound	2%	Cellulose	98%	Vinyl	None Detected
Layer 2 A2572920	Mastic	Homogeneous Clear Fibrous Bound	2%	Cellulose	60% 38%	Mastic Calc Carb	None Detected
<b>F-02</b> Layer 1 A2572921	Vinyl Sheet Floor	Heterogeneous Speckled Fibrous Bound	2%	Cellulose	98%	Vinyl	None Detected
Layer 2 A2572921	Mastic	Homogeneous Clear Fibrous Bound	2%	Cellulose	60%	Mastic Calc Carb	None Detected
<b>F-03</b> A2572922	Sample Submitted for TEM Analysis						
<b>F2-01</b> Layer 1 A2572923	Sheet Floor	Heterogeneous Brown,Wood Pattern Fibrous Bound	25%	Cellulose	50% 25%	Vinyl Binder	None Detected
Layer 2 A2572923	Mastic	Homogeneous Tan Fibrous Bound	2%	Cellulose	60% 38%	Mastic Calc Carb	None Detected



#### **ASBESTOS BULK ANALYSIS**

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC

4686 Peedee Hwy Conway, SC 29527 CEI Lab Code: A17-18846 Date Received: 12-18-17

**Date Analyzed:** 12-19-17 **Date Reported:** 12-19-17

Project: Kaminski House Bathrooms

#### ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Lab			COMPO Non-F	NENTS Fibrous	ASBESTOS %
<b>F2-02</b> Layer 1 A2572924	Sheet Floor	Heterogeneous Brown,Wood Pattern Fibrous	25%	Cellulose	50% 25%	Vinyl Binder	None Detected
Layer 2 A2572924	Mastic	Bound Homogeneous Tan Fibrous Bound	 2%	Cellulose	 60% 38%	Mastic Calc Carb	None Detected
<b>F2-03</b> A2572925	Sample Submitted for TEM Analysis						
<b>WG-01</b> A2572926	Window Glaze	Heterogeneous White Fibrous Bound	2%	Cellulose	5% 90%	Paint Binder	3% Chrysotile
<b>WG-02</b> A2572927	Sample Not Analyzed per COC						
<b>WG-03</b> A2572928	Sample Not Analyzed per COC						



**LEGEND:** Non-Anth = Non-Asbestiform Anthophyllite

Non-Trem = Non-Asbestiform Tremolite

Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

**REPORTING LIMIT:** <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

**REGULATORY LIMIT:** >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by CEI Labs, Inc. CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

ANALYST:

APPROVED BY:

Tianbao Bai, Ph.D., CIH Laboratory Director



Tel: 866-481-1412; Fax: 919-481-1442

ASBESTOS 9 17-18846 CHAIN OF CUSTODY Adrigas

LAB USE ONLY:			
CEI Lab Code:			
CEI Lab I.D. Range:			

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: Kaminski House Bathrooms
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN: SC

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES

				TURN ARC	OUND TIME		
ASBESTOS	METHOD	4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600						
PLM POINT COUNT (400)	EPA 600						
PLM POINT COUNT (1000)	EPA 600						
PLM GRAV w POINT COUNT	EPA 600						
PLM BULK	CARB 435						
PCM AIR	NIOSH 7400						
TEM AIR	EPA AHERA						
TEM AIR	NIOSH 7402						
TEM AIR	ISO 10312						
TEM AIR	ASTM 6281-09						
TEM BULK	CHATFIELD				353		
TEM DUST WIPE	ASTM D6480-05						
TEM DUST MICROVAC	ASTM D5755-09						
TEM SOIL	ASTM D7521-13						
TEM VERMICULITE	CINCINNATI METHOD						
OTHER: Lead Paint							

REMARKS / SPECIAL INS Wednesday 12/20/17 pleas		paint results on	Acc	ept Samples
			☐ Reje	ect Samples
Relinquished By:	Date/Time	Received By:	D	ate/Time
Dawn Schoolcraft	12/18/17 - 6:20	MR	12/18/17	8:00 am

Samples will be disposed of 30 days after analysis

Page 1 of 2

### A7-18846





COMPANY CONTACT INFORMATION	<b>以是企业。</b>
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: Kaminski House Bathrooms	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	Т	EST
F1-01	Speckled Vinyl Sheet Floor		PLM	TEM
F1-02	Speckled Vinyl Sheet Floor		PLM	TEM
F1-03	Speckled Vinyl Sheet Floor		PLM	TEM
F2-01	Brown Wood Pattern Sheet Floor		PLM	TEM
F2-02	Brown Wood Pattern Sheet Floor		PLM	TEM
F2-03	Brown Wood Pattern Sheet Floor		PLM	TEM
WG-01	Window Glaze		PLM	TEM
WG-02	Window Glaze		PLM	TEM
WG-03	Window Glaze		PLM	TEM
P1	Exterior Wood Window		Lead	TEM
P2	Exterior Facia Board		Lead	TEM
P3	Exterior Window Plate		Lead	TEM
			PLM	TEM

Page 2 of 2

Version: CCOC.06.16.2/2.LD



December 20, 2017

Asbestos Inspections LLC 4686 Peedee Hwy Conway, SC 29527

**CLIENT PROJECT:** Kaminski House Bathrooms

CEI LAB CODE: T17-2606

Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on December 19, 2017. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield Method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH Laboratory Director

Mansao Di



#### ASBESTOS ANALYTICAL REPORT By: Transmission Electron Microscopy

#### **Prepared for**

#### **Asbestos Inspections LLC**

CLIENT PROJECT: Kaminski House Bathrooms

CEI LAB CODE: T17-2606

TEST METHOD: Bulk Chatfield

EPA 600 / R93 / 116

REPORT DATE: 12/20/17

TEL: 866-481-1412

www.ceilabs.com



#### **ASBESTOS BULK ANALYSIS**

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Asbestos Inspections LLC

4686 Peedee Hwy Conway, SC 29527 

 CEI Lab Code:
 T17-2606

 Date Received:
 12-19-17

 Date Analyzed:
 12-20-17

 Date Reported:
 12-20-17

Project: Kaminski House Bathrooms

#### TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
F1-03 T71727	Speckled Vinyl Sheet Floor	0.243	86	13.6	.4	None Detected
F1-03 T71728	Clear Mastic	0.134	56	38.1	5.9	None Detected
F2-03 T71729	Brown, Wood Pattern Sheet Floor	0.322	42.9	55.9	1.2	None Detected
F2-03 T71730	Tan Mastic	0.073	56.2	15.1	28.7	None Detected



**LEGEND**: None

METHOD: CHATFIELD & EPA/600/R-93/116

**LIMIT OF DETECTION:** Varies with the weight and constituents of the sample (<1%)

**REGULATORY LIMIT:** >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by CEI Labs, Inc. CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Estimated measurement of uncertainty is available on request. Samples were received in acceptable condition unless otherwise noted.

**ANALYST:** 

**APPROVED BY:** 

Tianbao Bai, Ph.D., CIH Laboratory Director



T17-2606

T710727-

· 730

730 SE Maynard Road, Cary, NC 27511 Tel: 866-481-1412; Fax: 919-481-1442



A CHAIN	SBI	ESTO	os C	125	-1884	>
CHAIN	OF	CUS	TOE	YA	11298	Ŏ,

LAB USE ONLY:	
CEI Lab Code:	
CEI Lab I.D. Range:	

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: Kaminski House Bathrooms
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN: SC

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

	or the author			TURN ARC	DUND TIME		
ASBESTOS	METHOD	4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600						
PLM POINT COUNT (400)	EPA 600						
PLM POINT COUNT (1000)	EPA 600						
PLM GRÁV W POINT COUNT	EPA 600						
PLM BULK	CARB 435	r satisfición					
PCM AIR	NIOSH 7400						
TEM AIR	EPA AHERA						
TEM AIR	NIOSH 7402						
TEM AIR	ISO 10312						
TEM AIR	ASTM 6281-09						
TEM BULK	CHATFIELD						
TEM DUST WIPE	ASTM D6480-05						
TEM DUST MICROVAC	ASTM D5755-09						
TEM SOIL	ASTM D7521-13						
TEM VERMICULITE	CINCINNATI METHOD						
OTHER: Lead Paint							

REMARKS / SPECIAL I Wednesday 12/20/17 pl	NSTRUCTIONS: Need lead pagease.	aint results on	Acce	ept Samples
			Reje	ct Samples
Relinquished By:	Date/Time	Received By:	Ó	ate/Time
Dawn Schoolcraft	12/18/17 - 6:20	MP	12/18/17	8:00 am
Sodden	12/19/17 10:55am			

Samples will be disposed of 30 days after analysis

Page 1 of 2

## ASBESTOS SAMPLING FORM



TI7-2606

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: Kaminski House Bathrooms	
Project ID #:	Tel: 843-995-5197

		VOLUME/		
SAMPLE ID#	DESCRIPTION / LOCATION	AREA		TEST
F1-01	Speckled Vinyl Sheet Floor		PLM	TEM
F1-02	Speckled Vinyl Sheet Floor		PLM	TEM
F1-03	Speckled Vinyl Sheet Floor		PLM	TEM
F2-01	Brown Wood Pattern Sheet Floor		PLM	TEM
F2-02	Brown Wood Pattern Sheet Floor		PLM	TEM
F2-03	Brown Wood Pattern Sheet Floor		PLM	TEM
WG-01	Window Glaze		PLM	TEM
WG-02	Window Glaze		PLM	TEM
WG-03	Window Glaze		PLM	TEM
P1	Exterior Wood Window		Lead	TEM
P2	Exterior Facia Board		Lead	TEM
P3	Exterior Window Plate		Lead	TEM
			PLM	TEM
-			PLM	TEM

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#### Lead-Based Paint Laboratory Results



#### LABORATORY REPORT LEAD IN PAINT

Client: Asbestos Inspections LLC

4686 Peedee Hwy Conway, SC 29527 CEI Lab Code: C17-0935

Received: 12-18-17 Analyzed: 12-20-17 Reported: 12-20-17

**Project:** Kaminski House Bathrooms

**ANALYSIS METHOD: EPA SW846 7000B** 

CLIENT ID	CEI LAB ID	PPM (μg/g)	CONCENTRATION % BY WEIGHT 2.4 2.3	
P1	CA62886	24000		
P2	CA62887	23000		
P3 Sample contains substra	CA62888 te, potentially affecting results	1000	0.10	

Reviewed By:

Tianbao Bai, Ph.D. Laboratory Director

This method has been validated for sample weights of 0.020g or greater. When samples with a weight of less than that are analyzed those results fall outside of the scope of accreditations.

\* The analysis of composite wipe samples as a single samples is not included under AIHA accreditation.

Minimum reporting limit is 10  $\mu$ g total lead. Sample results denoted with a "less than" (<) sign contain less than 10.0  $\mu$ g total lead, based on a 40ml sample volume.

Lead samples are not analyzed by CEI Labs Lead samples are submitted to an AIHA ELLAP accredited laboratory for lead analysis of soil, dust, paint, and TCLP samples.

Laboratory results represent the analysis of samples as submitted by the client. Information regarding sample location, description, area, volume, etc., was provided by the client. Unless notified in writing to return samples, CEI Labs discards client samples after 30 days. This report shall not be reproduced, except in full, without the written consent of CEI Labs.

**REGULATORY** 

OSHA Standard: No safe limit.

LIMITS

Consumer Products Safety Standard: Greater than 0.06% lead by weight.

Federal Lead Standard / HUD: 0.5% lead by weight.

LEGEND

μg = microgram

ml = milliliter

ppm = parts per million

g = grams wt = weight

Pb = lead

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730 SE Maynard Road, Cary, NC 27511 Tel: 866-481-1412; Fax: 919-481-1442

## ASBESTOS (9 CAULSSU-CHAIN OF CUSTODY (AULSSUS

LAB USE ONLY:	
CEI Lab Code:	
CEI Lab I.D. Range:	

COMPANY INFORMATION	PROJECT INFORMATION				
CEI CLIENT #:	Job Contact: Dawn Schoolcraft				
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com				
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: Kaminski House Bathrooms				
	Project ID#:				
Email: dschoolcraft1978@gmail.com	PO #:				
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN: SC				

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

		TURN AROUND TIME					
ASBESTOS	METHOD	4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600						
PLM POINT COUNT (400)	EPA 600						
PLM POINT COUNT (1000)	EPA 600						
PLM GRAV w POINT COUNT	EPA 600						
PLM BULK	CARB 435						
PCM AIR	NIOSH 7400						
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TEM AIR	NIOSH 7402						
TEM AIR	ISO 10312						
TEM AIR	ASTM 6281-09						
TEM BULK	CHATFIELD						
TEM DUST WIPE	ASTM D6480-05						
TEM DUST MICROVAC	ASTM D5755-09						
TEM SOIL	ASTM D7521-13						
TEM VERMICULITE	CINCINNATI METHOD						
OTHER: Lead Paint	Delice of the property because which is also the						

REMARKS / SPECIAL INSTRUCTIONS: Need lead paint results on Wednesday 12/20/17 please.		Acc	Accept Samples	
		Reject Samples		
Relinquished By:	Date/Time	Received By:	D. D.	ate/Time
Dawn Schoolcraft	12/18/17 - 6:20	MR	12/18/17	8:00 aun

Samples will be disposed of 30 days after analysis

Page 1 of 2

## ASBESTOS SAMPLING FORM



COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: Kaminski House Bathrooms	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA		T	EST	
F1-01	Speckled Vinyl Sheet Floor		PLM		TEM	
F1-02	Speckled Vinyl Sheet Floor		PLM		TEM	
F1-03	Speckled Vinyl Sheet Floor		PLM		TEM	177.053
F2-01	Brown Wood Pattern Sheet Floor		PLM		TEM	
F2-02	Brown Wood Pattern Sheet Floor		PLM		TEM	
F2-03	Brown Wood Pattern Sheet Floor		PLM		TEM	
WG-01	Window Glaze		PLM		TEM	
WG-02	Window Glaze		PLM		TEM	
WG-03	Window Glaze		PLM		TEM	
P1	Exterior Wood Window		Lead		TEM	
P2	Exterior Facia Board		Lead		TEM	
P3	Exterior Window Plate		Lead		TEM	
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	
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			PLM		TEM	
			PLM		TEM	
			PLM		TEM	

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#### **APPENDIX 4**

SCDHEC License & EPA Lead Paint Inspector License

# SCDHEC ISSUED Asbestos ID Card

Dawn Schoolcraft

CONSULTMP MP-00245 03/23/18 CONSULTBI BI-00738 01/17/18 AIRSAMPLER AS-004418 06/22/18 CONSULTPD PD-00157 06/22/18

**Expiration Date** 

## United States Environmental Protection Agency This is to certify that



Cynthia D Schoolcraft

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Inspector

## In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires

May 03, 2019

LBP-I-I162035-1

Certification #

April 19, 2016

Issued On



Adrienne Priselac, Manager, Toxics Office

Land Division