

Asbestos Survey Report

4992 Willie Mae Street
Lafitte, Louisiana

August 24, 2018

Terracon Project No. ET187169

State Project No. H.002264



Prepared for:
Louisiana Department of Transportation and Development
Baton Rouge, Louisiana

Prepared by:
Terracon Consultants, Inc.
New Orleans, Louisiana

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials

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EXECUTIVE SUMMARY

A summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey for the Louisiana Department of Transportation and Development (LDOTD) of the vacant residential structure located at 4992 Willie Mae Street in Lafitte, Louisiana. It is our understanding that LDOTD is planning to demolish the structure. The purpose of this survey was to identify and sample suspect asbestos-containing materials (ACM) and provide information regarding the identity, location, condition and approximate quantities of ACM in building components.

The survey was conducted on August 20, 2018, by Mr. Adam McEvoy, a Louisiana Department of Environmental Quality (LDEQ) accredited Asbestos Inspector, in general accordance with the sampling protocols established in Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) 763. Twenty-one (21) bulk samples were collected from seven (7) homogeneous areas of suspect ACM. Asbestos was not detected in the samples collected and analyzed as part of our sampling at this site.

The Louisiana Air Quality Regulations (LAC 33:III Chapter 51, Subchapter M) require that an inspection be conducted by a person currently accredited as an LDEQ asbestos inspector. LDEQ requires a notification (Form AAC-2b) of any demolition activity. As results of this survey did not identify any asbestos-containing materials, however, LDEQ requires written notification (AAC-2b) prior to any demolition activity, regardless of whether the building contains asbestos.

A summary of the classification, condition and of each sampled material is presented in Appendix A. Laboratory analytical reports are included in Appendix B.

3.0 FIELD ACTIVITIES

The survey was conducted by Mr. Adam McEvoy, an LDEQ certified Asbestos Inspector. A copy of Mr. McEvoy's Asbestos Inspector certificate is attached in Appendix C. The survey was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763, AHERA. A summary of survey activities is provided below.

3.1 Visual Assessment

Our survey activities began with visual observation of the interior and exterior of the structure to identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout in terms of color, texture with consideration of the date of application. The interior and exterior assessment was conducted throughout visually accessible areas of the structure. Building materials identified as concrete, glass, wood, masonry, metal or rubber were not considered suspect ACM.

3.2 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

3.3 Sample Collection

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with AHERA sampling protocols. Random samples of suspect materials were collected in each homogeneous area. The inspector collected bulk samples using wet methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker. Twenty-one (21) bulk samples were collected from seven (7) homogeneous areas of suspect ACM.

3.4 Sample Analysis

Bulk samples were submitted under chain of custody to Moody Labs of Farmers Branch, Texas for analysis by PLM with dispersion staining techniques per EPA methodology (40 CFR 763, Subpart E). The percentage of asbestos, where applicable, was determined by microscopic visual estimation. Moody Labs is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP Accreditation No. 102056-0) and Louisiana Environmental Laboratory Accreditation Program (LELAP Certificate Number 04089).

Asbestos Survey Report

4992 Willie Mae Street ■ Lafitte, Louisiana
August 24, 2018 ■ Terracon Project No. ET187169



AAC-2 (a) form must be either postmarked or hand delivered to the Department at least 10 working days prior to the scheduled dates of asbestos removal. An AAC-2 (b) form is required when greater than 64 square feet of Vinyl Asbestos Tile (VAT) is removed without the intent of making it RACM, or when lab analysis of properly sampled materials indicates that no ACM is present; that ACM present is not RACM and will not be made RACM by the demolition; or that all RACM present is less than established thresholds. The established thresholds per LAC 33:III.5151.F.1 include the combined amount of RACM less than 60 linear feet on pipes, 64 square feet on other facility components or 27 cubic feet of facility where length or area could not be measured previously. A Form AAC-2 (b) must be postmarked or hand delivered to the Department at least 5 working days prior to the scheduled date of asbestos removal or 3 working days if the removal only includes resilient floor covering per LAC 33:III.5151.F.2.c.

Any individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Louisiana Licensing Board for Contractors to perform asbestos abatement.

The United States Occupational Safety and Health Administration (USOSHA) asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The USOSHA standard requires that employee exposure to airborne asbestos must not exceed 0.1 fibers per cubic centimeter of air (0.1 f/cc) as an eight hour time weighted average (TWA) and not exceed 1.0 fibers per cubic centimeter of air (1.0 f/cc) over a 30 minute time period known as an excursion limit (EL). The TWA and EL are known as USOSHA's asbestos permissible exposure limits (PELs). The USOSHA standard classifies construction and maintenance activities which could disturb ACM, and specifies work practices and precautions which employers must follow when engaging in each class of regulated work.

5.0 FINDINGS AND RECOMMENDATIONS

Asbestos was not detected in the samples collected and analyzed as part of our sampling at this site.

It should be noted that suspect materials, other than those identified during this survey may exist within the building. Should suspect materials other than those which were identified during this survey be uncovered during the demolition process, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny their asbestos content.

The Louisiana Air Quality Regulations (LAC 33:III Chapter 51, Subchapter M) require that an inspection be conducted by a person currently accredited as an LDEQ asbestos inspector. LDEQ requires a notification (Form AAC-2b) of any demolition activity. As results of this survey did not identify any asbestos-containing materials, however, LDEQ requires written notification (AAC-2b) prior to any demolition activity, regardless of whether the building contains asbestos.

APPENDIX A

**4992 Willie Mae Street
Lafitte, Louisiana
Terracon Project No. ET187169**

ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

HA	Material Description	Material Location	Condition	Sample Number	Sample Location	Lab Results
01	White with Blue Streak 12" x 12" Floor Tile with Yellow Adhesive	Patio Steps	Good	01-FT2-01	Patio Steps	None Detected
				01-FT2-02	Patio Steps	None Detected
				01-FT2-03	Patio Steps	None Detected
02	Off-white 12" x 12" Floor Tile Pattern Sheet Flooring with Yellow Adhesive	Master Bathroom and Bedroom 3	Good	02-FC1-04	Master Bathroom	None Detected
				02-FC1-05	Master Bathroom	None Detected
				02-FC1-06	Bedroom 3	None Detected
03	Brown 12" x 12" Floor Tile Pattern Sheet Flooring with Yellow Adhesive	Bedroom 2	Good	03-FC1-07	Bedroom 2	None Detected
				03-FC1-08	Bedroom 2	None Detected
				03-FC1-09	Bedroom 2	None Detected
04	Faux Wood Sheet Flooring	Bathroom	Good	04-FC1-10	Bathroom	None Detected
				04-FC1-11	Bathroom	None Detected
				04-FC1-12	Bathroom	None Detected
05	White Wallboard with Joint Compound and Tape	Throughout Building	Good	05-WBI-13	Living Room	None Detected
				05-WBI-14	Kitchen	None Detected
				05-WBI-15	Bedroom 3	None Detected
06	White Ceiling Texture	Throughout Building	Good	06-WBS-16	Master Bath	None Detected
				06-WBS-17	Living Room	None Detected
				06-WBS-18	Bedroom 2	None Detected
07	Gray HVAC Mastic	HVAC Closet	Good	07-MGS-19	HVAC Closet	None Detected
				07-MGS-20	HVAC Closet	None Detected
				07-MGS-21	HVAC Closet	None Detected

APPENDIX B
LABORATORY ANALYTICAL REPORT



PLM Summary Report

2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab Code 102056-0
TDSHS License No. 30-0084
LELAP ID#04089

Client :	Terracon - New Orleans	Lab Job No. :	18B-10791
Project :	Bayou Barataria Bridge, 4992 Willie Mae Street	Report Date :	08/23/2018
Project # :	ET187169	Sample Date :	08/20/2018
Identification :	Asbestos, Bulk Sample Analysis		
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116		

On 8/21/2018, twenty one (21) bulk material samples were submitted by Adam McEvoy of Terracon - New Orleans for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
01-FT2-01	12" x 12" Floor Tile (White with Blue Streak) with Adhesive (Yellow), Patio Steps	None Detected - Floor Tile None Detected - Adhesive
01-FT2-02	12" x 12" Floor Tile (White with Blue Streak) with Adhesive (Yellow), Patio Steps	None Detected - Floor Tile None Detected - Adhesive
01-FT2-03	12" x 12" Floor Tile (White with Blue Streak) with Adhesive (Yellow), Patio Steps	None Detected - Floor Tile None Detected - Adhesive
02-FC1-04	Sheet Flooring (Off-White 12" x 12" Floor Tile Pattern) with Adhesive (Yellow), Master Bathroom	None Detected - Sheet Flooring No Adhesive
02-FC1-05	Sheet Flooring (Off-White 12" x 12" Floor Tile Pattern) with Adhesive (Yellow), Master Bathroom	None Detected - Sheet Flooring No Adhesive
02-FC1-06	Sheet Flooring (Off-White 12" x 12" Floor Tile Pattern) with Adhesive (Yellow), Bedroom 3	None Detected - Sheet Flooring None Detected - Adhesive
03-FC1-07	Sheet Flooring (Brown 12" x 12" Floor Tile Pattern) with Adhesive (Yellow), Bedroom 2	None Detected - Sheet Flooring None Detected - Adhesive
03-FC1-08	Sheet Flooring (Brown 12" x 12" Floor Tile Pattern) with Adhesive (Yellow), Bedroom 2	None Detected - Sheet Flooring None Detected - Adhesive
03-FC1-09	Sheet Flooring (Brown 12" x 12" Floor Tile Pattern) with Adhesive (Yellow), Bedroom 2	None Detected - Sheet Flooring None Detected - Adhesive
04-FC1-10	Sheet Flooring (Faux Wood), Bathroom	None Detected - Sheet Flooring None Detected - Adhesive
04-FC1-11	Sheet Flooring (Faux Wood), Bathroom	None Detected - Sheet Flooring None Detected - Adhesive
04-FC1-12	Sheet Flooring (Faux Wood), Bathroom	None Detected - Sheet Flooring None Detected - Adhesive
05-WB1-13	Wallboard (White) with Joint Compound and Tape, Living Room	None Detected - Drywall Material None Detected - Joint Compound
05-WB1-14	Wallboard (White) with Joint Compound and Tape, Kitchen	None Detected - Drywall Material None Detected - Joint Compound



PLM Summary Report

2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab Code 102056-0
TDSHS License No. 30-0084
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Client :	Terracon - New Orleans	Lab Job No. :	18B-10791
Project :	Bayou Barataria Bridge, 4992 Willie Mae Street	Report Date :	08/23/2018
Project # :	ET187169	Sample Date :	08/20/2018
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Page 2 of 2

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Sample Number	Client Sample Description / Location	Asbestos Content
05-WB1-15	Wallboard (White) with Joint Compound and Tape, Kitchen	None Detected - Drywall Material None Detected - Joint Compound
06-WB5-16	Ceiling Texture (White), Master Bath	None Detected - Texture
06-WB5-17	Ceiling Texture (White), Living Room	None Detected - Texture
06-WB5-18	Ceiling Texture (White), Bedroom 2	None Detected - Texture
07-MG5-19	HVAC Mastic (Gray), HVAC Closet	None Detected - Gray Mastic
07-MG5-20	HVAC Mastic (Gray), HVAC Closet	None Detected - Gray Mastic
07-MG5-21	HVAC Mastic (Gray), HVAC Closet	None Detected - Gray Mastic

These samples were analyzed by layers. Quantification, unless otherwise noted, is performed by calibrated visual estimate. The test report shall not be reproduced, except in full, without written approval of the laboratory. The results relate only to the items tested. These test results do not imply endorsement by NVLAP or any agency of the U.S. Government. Accredited by the National Voluntary Laboratory Accreditation Program for Bulk Asbestos Fiber Analysis under Lab Code 102056-0.



Analyst(s): Willie Pruitt

Lab Manager : Heather Lopez

Lab Director : Bruce Crabb

Approved Signatory : *Heather Lopez*

Approved Signatory : *Bruce Crabb*

Thank you for choosing Moody Labs

Moody Labs
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
 Supplement to PLM Summary Report

NVLAP Lab Code 102056-0
 TDSHS License No. 30-0084
 LELAP ID#04089

Client : Terracon - New Orleans
 Project : Bayou Barataria Bridge, 4992 Willie Mae Street
 Project # : ET187169

Lab Job No. : 18B-10791
 Report Date : 08/23/2018

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
01-FT2-01	Floor Tile (Off-White)	99%	Calcite / Vinyl Binders	100%	08/23	WP
	Adhesive (Yellow)	1%	Glue Binders	100%		
01-FT2-02	Floor Tile (Off-White)	99%	Calcite / Vinyl Binders	100%	08/23	WP
	Adhesive (Yellow)	1%	Glue Binders	100%		
01-FT2-03	Floor Tile (Off-White)	99%	Calcite / Vinyl Binders	100%	08/23	WP
	Adhesive (Yellow)	1%	Glue Binders	100%		
02-FC1-04	Sheet Flooring (Off-White)	100%	Glass Wool Fibers	3%	08/23	WP
			Synthetic Foam	67%		
			Vinyl Binders	30%		
	No Adhesive					
02-FC1-05	Sheet Flooring (Off-White)	100%	Glass Wool Fibers	3%	08/23	WP
			Synthetic Foam	67%		
			Vinyl Binders	30%		
	No Adhesive					
02-FC1-06	Sheet Flooring (Off-White)	99%	Glass Wool Fibers	3%	08/23	WP
			Synthetic Foam	67%		
			Vinyl Binders	30%		
	Adhesive (Yellow)	1%	Glue Binders	100%		
03-FC1-07	Sheet Flooring (Off-White)	98%	Glass Wool Fibers	3%	08/23	WP
			Synthetic Foam	67%		
			Vinyl Binders	30%		
	Adhesive (Yellow)	2%	Glue Binders	100%		
03-FC1-08	Sheet Flooring (Off-White)	98%	Glass Wool Fibers	3%	08/23	WP
			Synthetic Foam	67%		
			Vinyl Binders	30%		
	Adhesive (Yellow)	2%	Glue Binders	100%		

Moody Labs
 2051 Valley View Lane
 Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab Code 102056-0
 TDSHS License No. 30-0084
 LELAP ID#04089

Client : Terracon - New Orleans
 Project : Bayou Barataria Bridge, 4992 Willie Mae Street
 Project # : ET187169

Lab Job No. : 18B-10791
 Report Date : 08/23/2018

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
03-FC1-09	Sheet Flooring (Off-White)	98%	Glass Wool Fibers	3%	08/23	WP
			Synthetic Foam	67%		
	Adhesive (Yellow)	2%	Vinyl Binders	30%		
			Glue Binders	100%		
04-FC1-10	Sheet Flooring (Wood Pattern)	100%	Glass Wool Fibers	3%	08/23	WP
			Synthetic Foam	67%		
	Adhesive (Yellow)	<1%	Vinyl Binders	30%		
			Glue Binders	100%		
04-FC1-11	Sheet Flooring (Wood Pattern)	100%	Glass Wool Fibers	3%	08/23	WP
			Synthetic Foam	67%		
	Adhesive (Yellow)	<1%	Vinyl Binders	30%		
			Glue Binders	100%		
04-FC1-12	Sheet Flooring (Wood Pattern)	100%	Glass Wool Fibers	3%	08/23	WP
			Synthetic Foam	67%		
	Adhesive (Yellow)	<1%	Vinyl Binders	30%		
			Glue Binders	100%		
05-WB1-13	Drywall Material (White)	65%	Glass Wool Fibers	2%	08/23	WP
			Cellulose Fibers	1%		
	DW Paper / Tape (Tan / White)	10%	Gypsum / Binders	97%		
	Joint Compound (White)	25%	Cellulose Fibers	100%		
05-WB1-14	Drywall Material (White)	65%	Glass Wool Fibers	2%	08/23	WP
			Cellulose Fibers	1%		
	DW Paper / Tape (Tan / White)	10%	Gypsum / Binders	97%		
	Joint Compound (White)	25%	Cellulose Fibers	100%		
			Calcite / Talc / Binders	100%		

APPENDIX C
CERTIFICATIONS

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Adam McEvoy

Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of

ASBESTOS INSPECTOR

Accreditation No. 9I201568

AI No. 201568

Date of Issuance 6/18/2018

Expiration 6/18/2019

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.

Christopher Mangum
Permit Support Services Division
Office of Environmental Services



STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Is hereby granting a Louisiana Environmental Laboratory Accreditation to



Steve Moody Micro Services LLC dba Moody Labs
2051 Valley View Ln
Farmers Branch, Texas 75234

Agency Interest No. 115351
Activity No. ACC20180001

According to the Louisiana Administrative Code, Title 33, Part 1, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 1, Subpart 3 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 1. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:1.4711.

Cheryl Sonnier Nolan
Administrator
Public Participation and Permit Support Services Division

Issued Date: 06 June 2018

Effective Date: July 1, 2018
Expiration Date: June 30, 2019
Certificate Number: 04089



STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Steve Moody Micro Services LLC dba Moody Labs
AI Number: 115351
Activity No. ACC20180001
Expiration Date: June 30, 2019

Effective Date: July 1, 2018

2051 Valley View Ln, Farmers Branch, Texas 75234

Certificate Number: 04089

Air Emissions

100131 - Airborne Asbestos	40 CFR Part 763, Subpart E, Appendix A (Mandatory TEM)	2062	NVLAP	LA
1520 - Asbestos	40 CFR Part 763, Subpart E, Appendix A (Mandatory TEM)	2062	NVLAP	LA
100131 - Airborne Asbestos	40 CFR Part 763, Subpart E, Appendix A (Non-mandatory TEM)	2086	NVLAP	LA
100680 - Fungal Growth in Non-culturable Spore Traps	ASTM D7391-09	2871	AIHA	LA
100683 - Fungal - Direct Examination (Air)	ML-Q-00037	3820	AIHA	LA
100726 - Fungal - Direct Examination (Air)(Non-cultured)	ML-Q-00037	3820	AIHA	LA
100679 - Fungal Growth in Culturable Air Samples	ML-Q-00039	3822	AIHA	LA
100206 - Asbestos and Other Fibers	NIOSH 7400, Rev.3	90018001	State	LA

Non Potable Water

NONE	NONE	NONE	NONE	NONE
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Solid Chemical Materials

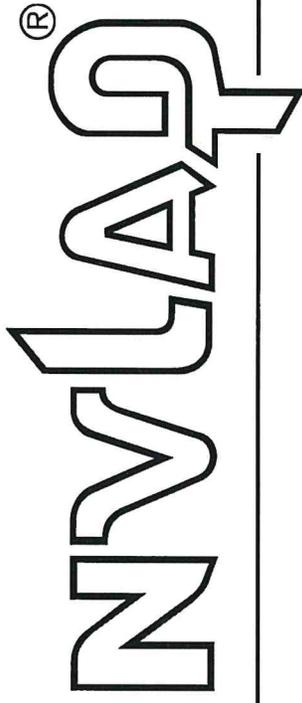
100095 - Asbestos in Bulk Insulation	EPA 600/M4-82-020 (PLM)	1488	NVLAP	LA
100030 - Asbestos in Friable Material	EPA 600/M4-82-020 (PLM)	1488	NVLAP	LA
100243 - Asbestos in Non-Friable Material	EPA 600/M4-82-020 (PLM)	1488	NVLAP	LA
100095 - Asbestos in Bulk Insulation	40 CFR 763, Subpart E, Appendix E (Section 1.PLM)	2004	NVLAP	LA
100251 - Fungal Direct Exam	ML-Q-00038	3821	AIHA	LA
100725 - Fungal Direct Exam (Non-cultured)	ML-Q-00038	3821	AIHA	LA
100674 - Fungal Growth in Culturable Bulk Samples	ML-Q-00040	3823	AIHA	LA
100675 - Fungal Growth in Culturable Surface Swab Samples	ML-Q-00040	3823	AIHA	LA
1520 - Asbestos	EPA 600/R-93/116	10294583	NVLAP	LA
100172 - Asbestos by Polarized Light Microscopy	EPA 600/R-93/116	10294583	NVLAP	LA
100171 - Asbestos by Transmission Electron Microscopy	EPA 600/R-93/116	10294583	NVLAP	LA

Biological Issue

NONE	NONE	NONE	NONE	NONE
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Clients and Customers are urged to verify the laboratory's current certification status with the Louisiana Environmental Laboratory Accreditation Program.

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 102056-0

Steve Moody Micro Services, LLC
Farmers Branch, TX

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 Communiqué dated January 2009).*

2018-07-01 through 2019-06-30

Effective Dates

A handwritten signature in blue ink, which appears to read "John S. Hamman".

For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Steve Moody Micro Services, LLC

2051 Valley View Lane

Farmers Branch, TX 75234-8956

Mr. Bruce Crabb

Phone: 972-241-8460 Fax: 972-241-8461

Email: bruce.crabb@moodylabs.com

<http://www.moodylabs.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 102056-0

Bulk Asbestos Analysis

Code

Description

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code

Description

18/A02

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

For the National Voluntary Laboratory Accreditation Program

APPENDIX D
PHOTOGRAPHS



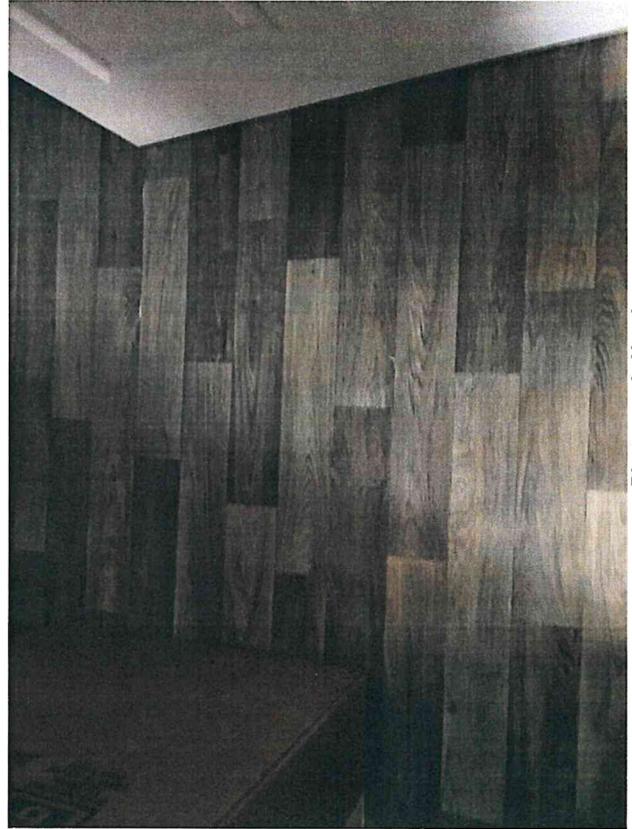
Photograph No. 1
HA-01: White with Blue Streak 12" x 12" Floor Tile



Photograph No. 2
HA-02: Off-white 12" x 12" Floor Tile Pattern Sheet Flooring



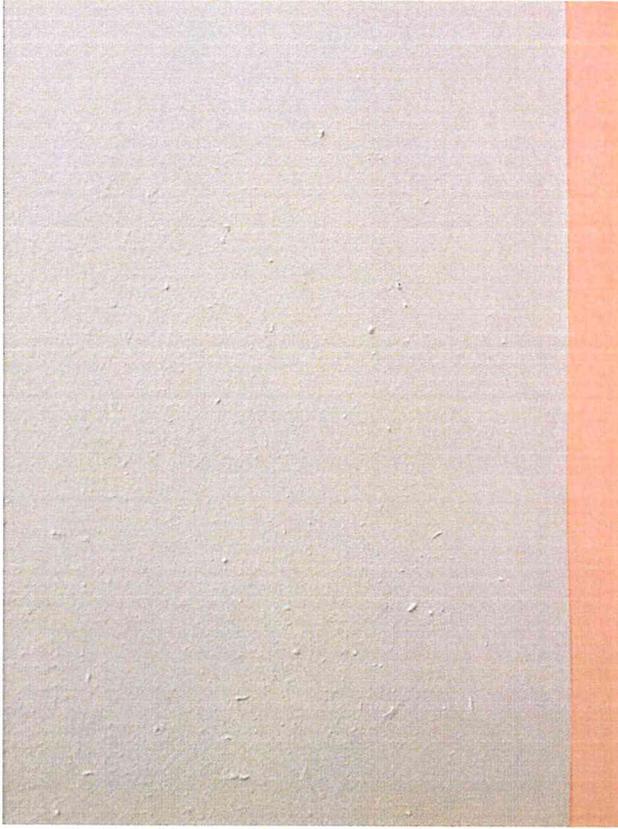
Photograph No. 3
HA-03: Brown 12" x 12" Floor Tile Pattern Sheet Flooring



Photograph No. 4
HA-04: Faux Wood Sheet Flooring



Photograph No. 5
HA-05: White Wallboard with Joint
Compound and Tape



Photograph No. 6
HA-06: White Ceiling Texture



Photograph No. 7
HA-07: Gray HVAC Mastic

APPENDIX E
LDEQ FORM AAC-2 (b)

**Louisiana Department of Environmental Quality
OES, Permit Support Services Division
Notifications and Accreditations Section
P.O. Box 4313, Baton Rouge, LA 70821-4313
Physical: 602 N. 5th St, BR, LA 70802
Phone (225) 219-3244**

**Asbestos Negative Declaration Demolition Notification Form (AAC-2b)
General Information and Instructions**

Demolition or Renovation involving no Regulated Asbestos Containing Material (RACM)

For Demolitions or Renovations where: greater than 64 sq ft of VAT is removed without the intent of making it RACM; or when lab analysis of properly sampled materials indicates that no ACM is present; that ACM present is not RACM and will not be made RACM by the demolition; or that all RACM present is less than established thresholds, complete and submit the AAC-2b Notification Form.

The AAC-2b form must be either postmarked or hand delivered to the Department at least 5 working days prior to the scheduled dates of demolition. The completed AAC-2b form should be submitted to the Department at the address at the top of the form.

Note: The AAC-2b form MUST be typed and properly completed with an original signature. The AAC-2b Form MUST be submitted to LDEQ on the most current form approved by the Department, and can be located on the Asbestos web site at <http://www.deq.louisiana.gov/portal/tabid/2883/Default.aspx>. Modified forms will not be accepted.

A. Notification of Demolition and Renovation Form, AAC-2b Instructions

1. **Boxed Area for LDEQ Use Only:** Please leave these spaces blank: AI No, Check Voucher Electronic Transfer no, Amount Received, and Postmark Date.
2. **Check if the Notice is an Emergency and complete the information in Section IX:** Emergencies are defined in LAC 33:III.5151.B Definitions:

Emergency Demolition/Renovation Operation—a demolition or renovation operation that was not planned but results from a sudden unexpected event that, if not immediately attended to, presents a safety or public health hazard, is necessary to protect equipment from damage, or is necessary to avoid imposing an unreasonable financial burden. This term includes operations necessitated by nonroutine failures of equipment.

Sections on the AAC-2 Form:

I. Type of Notification: Check the appropriate selection for this demolition.

II. Type of Operation - Check the appropriate selection:

Ordered: Demolition is ordered by a local or state government agency.

III. Facility Description: Enter the following information for the facility where the actual activity will

General Information and Instructions for AAC-2 form (continued)

take place.

Facility Name: Legal name of the facility.

Physical Address: The physical address where the activity will take place. Specific directions to the site, should the address prove inadequate. (i.e. Two miles past Highway X on the right.) Include the city, state, zip code and parish where the facility is located. No P.O. Box Numbers are accepted.

Site Location: Building name or number, equipment or component name (i.e. Bldg 2-A, Boiler 1).

Telephone No: Telephone no. of the facility where the asbestos activity will take place.

Building Size: Estimate in square meters or square feet.

No. of Floors: Enter the no. of floors including the basement or ground level floors.

Age in Years: The approximate age of the facility.

Present Use: Describe the current primary use of the facility.

Prior Use: Describe the former primary use of the facility.

IV. Determination of No RACM Present:

If the activity is a **Demolition**, include:

Inspection Date (MM/DD/YY) Month/Day/Year;

Inspectors Name and LDEQ Inspector Accreditation number;

Lab name and Accreditation number;

Procedure used to identify the asbestos material, including analytical method.

("Assumed" or "Known" to be asbestos containing is acceptable.)

If the material is "known" or "assumed" to be asbestos and the inspection information is not known, check that box in lieu of the inspection information.

If an inspection is performed a copy of the Inspection Signature Page and the Lab Analysis Report must be attached.

V. Amount of Asbestos present but not removed, including:

Unit of Measurement:

For Pipes, note linear footage; and for Surface Material, note square footage.

The "Total Volume of RACM" in **cubic yards** is **mandatory**. Note the total amount of asbestos containing waste material in cubic yards for the entire project.

Non-Regulated ACM Not to Be Removed Prior to Demolition:

Enter information on any ACM left in the building during demolition. Note: **Only** Category I ACM that is in good condition, and will remain in good condition by the forces expected to act upon the material during demolition, may remain in the structure prior to demolition. For a definition of Category I and/or Category II non-friable Asbestos Containing Material, see the Louisiana Air Quality regulations, LAC 33:III.Chapter 51. Subchapter M at <http://www.deq.louisiana.gov/portal/tabid/1674/Default.aspx>.

VI. Demolition Contractor:

General Information and Instructions for AAC-2 form (continued)

Contractor handling demolition activities (whether the structure contains asbestos or not), such as a general contractor, or any other person who leases, controls or supervises the site activity, enter the operator or contractor's name, mailing address, including city, state, and zip code; a contact name, telephone no. and email address.

VII. Scheduled Dates of Demolition/Renovation:

Enter the dates for beginning and ending the demolition or renovation activity.

VIII. Government Ordered Demolition Information:

Provide the name of the responsible official, title and agency, authority under which the order was issued, the dates of the order and the dates the ordered demolition will begin. Attach a copy of the Government Order to the AAC-2b form.

IX. Emergency Demolition Information:

Provide the date and time of the emergency, a description of the sudden unexpected event; and a description of unsafe conditions, equipment damage, or financial burden resulting from the event. The information should be detailed enough for DEQ to evaluate whether a renovation falls within the emergency exception.

The Louisiana Air Quality regulations note emergencies as:

- 1- a sudden, unexpected event that necessitated the renovation;
- 2- an unsafe condition, or condition that would cause equipment damage; or
- 3- an unreasonable financial burden.

Louisiana Air Quality regulations: <http://www.deq.louisiana.gov/portal/tabid/1674/Default.aspx>

For emergencies, verbal telephone notification must be made immediately, but in no case later than four hours after learning of the incident. If additional space is needed, write the information on a separate sheet of paper and attach it to the AAC-2 form. The Department will determine whether the project is a true emergency, and will enforce the ten (10) day notification period if the project is not deemed an emergency.

X. Description of Planned non-RACM Demolition:

Describe the demolition or renovation techniques to be used, and the areas and types of facility components that will be affected. (eg. Adequately wet material, use leak-tight bags, etc.)

XI. Comments:

Provide any additional comments pertinent to this notification.

XII. Certification of a Negative Declaration:

This statement certifies that **no** Regulated Asbestos Containing Material will remain in the structure prior to demolition. Please read and certify by signature if the statement is accurate.

Note: All blanks on the AAC-2 form that are non-applicable must be completed with "NA". Please do not leave any blanks empty. If there are any blanks left empty; the processing of the AAC-2 will be delayed until the required information is submitted to the department.

ASBESTOS NEGATIVE DECLARATION

DEMOLITION NOTIFICATION FORM AAC-2(b)



Louisiana Department of Environmental Quality
Office of Environmental Services
Public Participation and Permit Support Division
Notifications and Accreditations Section
Phone (225) 219-3244

Please type and complete all required sections.

For LDEQ Use Only	
A.I. No.	
Ck./Voucher No.	N/A
Amt. Received	N/A
Postmark Date	
ADVF No.	N/A

Note: This form is to be used only for renovations where greater than 64 square feet of floor tile is removed without the intent of making it Regulated Asbestos Containing Material (RACM) or when lab analysis of properly sampled material indicates: that no Asbestos Containing Material (ACM) is present; that the ACM present is not RACM, and will not be made RACM by the demolition; or that RACM, including any ACM that will be made RACM by the demolition, is less than the thresholds below. For all other demolitions, renovations, or asbestos contaminated debris activities, use *Notification of Demolition and Renovation and Asbestos Contaminated Debris Activity Form AAC-2(a)*.

Emergency Note: Emergency notification is allowable only for a sudden, unexpected event that would cause an unsafe condition (or health hazard), equipment damage, or would pose an unreasonable financial burden, per LAC 33:III.5151.F.2.d.xvi.

<p>I. Type of Notification</p> <p><input type="checkbox"/> Renovations where > 64 square feet of floor tile is removed without the intent of making it RACM</p> <p><input checked="" type="checkbox"/> No ACM present</p> <p><input type="checkbox"/> ACM present is not RACM and will not be made RACM by the demolition.</p> <p><input type="checkbox"/> RACM, or ACM that will be made RACM, is less than the established thresholds (see right)</p>	<p>Established Thresholds per LAC 33:III.5151.F.1. Combined amount of RACM is less than:</p> <ul style="list-style-type: none"> 60 linear feet on pipes; 64 square feet on other facility components; or 27 cubic feet off facility components where length or area could not be measured previously 																						
<p>II. Type of Operation <input checked="" type="checkbox"/> Demo (allowable only if structure contains no RACM or contains RACM below established thresholds) (See Section I, above)</p> <p>Is structure being demolished under order of a state or local government agency? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Complete Sec. VIII)</p>																							
<p>III. Facility Description</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Facility Name <u>4992 Willie Mae St.</u></td> <td style="width: 50%;">Parish <u>Jefferson Parish</u></td> </tr> <tr> <td>Physical Address <u>4992 Willie Mae St.</u></td> <td>Building Size (sq.ft.) <u>900</u></td> </tr> <tr> <td>City <u>Lafitte</u> State <u>LA</u> Zip <u>70067</u></td> <td>No. Floors <u>1</u> Age of Building (Yrs) _____</td> </tr> <tr> <td>Owner Name <u>Louisiana Department of Transportation & Development</u></td> <td>Location on site (Bldg, Floor, Room, etc.) where work is done _____</td> </tr> <tr> <td>Contact Name <u>Radha Kumar</u></td> <td></td> </tr> <tr> <td>Mailing Address <u>P.O. Box 94245</u></td> <td>Present <input type="checkbox"/> School <input type="checkbox"/> State Bldg. <input type="checkbox"/> Public/Commercial</td> </tr> <tr> <td>City <u>Baton Rouge</u> State <u>LA</u> Zip <u>70804</u></td> <td>Use <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Installation</td> </tr> <tr> <td>Contact Phone <u>(225) 242-4554</u></td> <td><input type="checkbox"/> Other _____</td> </tr> <tr> <td>Contact Email <u>Ragha.Kumar@la.gov</u></td> <td>Prior <input type="checkbox"/> School <input type="checkbox"/> State Bldg. <input type="checkbox"/> Public/Commercial</td> </tr> <tr> <td></td> <td>Use <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Installation</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Other _____</td> </tr> </table>		Facility Name <u>4992 Willie Mae St.</u>	Parish <u>Jefferson Parish</u>	Physical Address <u>4992 Willie Mae St.</u>	Building Size (sq.ft.) <u>900</u>	City <u>Lafitte</u> State <u>LA</u> Zip <u>70067</u>	No. Floors <u>1</u> Age of Building (Yrs) _____	Owner Name <u>Louisiana Department of Transportation & Development</u>	Location on site (Bldg, Floor, Room, etc.) where work is done _____	Contact Name <u>Radha Kumar</u>		Mailing Address <u>P.O. Box 94245</u>	Present <input type="checkbox"/> School <input type="checkbox"/> State Bldg. <input type="checkbox"/> Public/Commercial	City <u>Baton Rouge</u> State <u>LA</u> Zip <u>70804</u>	Use <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Installation	Contact Phone <u>(225) 242-4554</u>	<input type="checkbox"/> Other _____	Contact Email <u>Ragha.Kumar@la.gov</u>	Prior <input type="checkbox"/> School <input type="checkbox"/> State Bldg. <input type="checkbox"/> Public/Commercial		Use <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Installation		<input type="checkbox"/> Other _____
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	<input type="checkbox"/> Other _____																						

IV. Determination of No RACM Present /Amount of RACM Present is Below Established Thresholds for Demo Project (see Section I)

Inspector's Name Adam McEvoy Certified Lab Name Moody Labs

Inspector's Accreditation No. 201568 Lab Accreditation No. 04089

Inspection Date (mm/dd/yy) 08/20/18 Analysis Date (mm/dd/yy) 08/23/18

Procedure, including analytical method, if appropriate, used to detect the presence of asbestos material Polarized Light Microscopy / Dispersion Staining (PLM/DS)
EPA Method 600 / R-93 / 116

- Attach the following copies:
- Signature page of inspection report for inspection date indicated (above)
 - Lab Analysis Report for analysis date indicated (above)

NOTE: The Asbestos Negative Declaration Demo Notification Form AAC-2(b) will not be processed without these attachments.

V. Asbestos Containing Material (ACM) Not to be Removed from Structure Prior to Demolition (if ACM is present)

	RACM		Non-regulated ACM	
Type of Asbestos Material	<input type="checkbox"/> TSI	<input type="checkbox"/> Fireproofing	<input type="checkbox"/> VAT	<input type="checkbox"/> Asphalt Roofing
	<input type="checkbox"/> Ceiling Tile	<input type="checkbox"/> Other _____	<input type="checkbox"/> Mastic	<input type="checkbox"/> Other _____
Amount of Asbestos Material Not Removed	_____ linear feet	_____ square feet	_____ linear feet	_____ square feet
	_____ cubic yards		_____ cubic yards	

VI. Demolition Contractor

Contractor Name _____ Contact Name _____

Mailing Address _____ Contact Email _____

City _____ State _____ Zip _____ Phone () _____

VII. Scheduled Demolition Dates

Start Date (mm/dd/yy) _____ Completion Date (mm/dd/yy) _____

VIII. Governmental Agency-Ordered Demolition (Complete only if you answered "Yes" in Section II)

Agency Representative Name _____ Title _____

Agency _____ Date Issued (mm/dd/yy) _____ Date Ordered to Begin (mm/dd/yy) _____

Attach a copy of the Demolition Order from the governmental agency identified (above).

NOTE: The Asbestos Negative Declaration Demo Notification Form AAC-2(b) will not be processed without this attachment.

IX. Emergency Demolitions (Complete only for emergency event indicated by checked "Emergency" box on page 1)

Date of Emergency (mm/dd/yy) _____ Time of Emergency _____

Describe the sudden, unexpected event requiring immediate attention _____

Explain how event would cause an unsafe condition (health hazard), equipment damage, or pose unreasonable financial burden (per LAC _____)

X. Planned non-RACM demolition

Describe planned non-RACM demolition and methods to be used _____

Describe procedures to be followed in the event unexpected RACM is found or CAT II becomes RACM (per LAC 33:III.5151.F.2.d.xvii) _____

XI. Comments (Provide any additional comments /information relevant to the Asbestos Negative Declaration Notification)

XII. Certification (sign this section only if RACM is absent or amount of RACM present is below established thresholds)

I certify that the above information is correct and that under penalty of law, with regard to the structure being demolished, RACM is determined to be absent or the amount of RACM present is below established thresholds per LAC 33:III.5151.F.1. I understand that:

- Laboratory analysis performed by commercial laboratories for this determination must have been conducted in accordance with the requirements set forth under LAC 33:I.Subpart 3, Chapters 49-55;
- Laboratory data generated by commercial laboratories that are not accredited under LAC 33:I.Subpart 3, Chapters 47-57, will not be accepted by the LDEQ; retesting of analysis will be required by an accredited commercial laboratory; and
- The *Asbestos Negative Declaration Demo Notification Form AAC-2(b)* will not be processed without the required analysis and supporting documentation from an accredited commercial laboratory (See Section IV).

Printed Name of Owner or Operator/Contractor

Signature of Owner or Operator/Contractor

Date (mm/dd/yy)

Submittal Information:

- There is no fee associated with the *Asbestos Negative Declaration Demolition Notification Form AAC-2(b)*.
- **For Emergencies**-Information may be submitted by: fax (225-325-8283); email (DEQ.ASBESTOSNOTIFICATIONS@LA.GOV); phone (225-219-3244); or hand-delivery. If faxed or emailed, a follow-up form with original signature must be submitted to the LDEQ by one of the methods of delivery (below) within 5 working days.
- **For Non-emergencies**-Information MAY NOT BE FAXED. Forms may be submitted by email (DEQ.ASBESTOSNOTIFICATIONS@LA.GOV) with a follow-up form submitted within 5 working days. The form with an original signature must be submitted to the LDEQ by one of the following methods of delivery:

By Mail:

LDEQ Office of Environmental Services
Public Participation and Permit Support Division
Notifications & Accreditations Section
P. O. BOX 4313
Baton Rouge, LA 70821-4313

or

By Overnight or Hand-delivery:

LDEQ Office of Environmental Services
Public Participation and Permit Support Division
Notifications & Accreditations Section
602 North 5th Street
Baton Rouge, LA 70802